Joe N. Robbs
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1974

Water Resources Data for California

Part 2. Water Quality Records

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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

CALENDAR FOR WATER YEAR 1974

1973

OCTOBER

S	M	T	W	T	F	S
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1974

JANUARY

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JUNE

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JULY

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AUGUST

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SEPTEMBER

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29	30					

1974

Water Resources Data for California

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Water-resources records, 1974, for California are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for California
   Part 1: Surface Water Records
   Volume 1: Colorado River Basin, Southern Great Basin, and Pacific Slope Basins excluding Central Valley

2. Water Resources Data for California
   Part 1: Surface Water Records
   Volume 2: Northern Great Basin and Central Valley

3. Water Resources Data for California
   Part 2: Water Quality Records

Copies of these reports may be obtained from District Chief,
Water Resources Division
U.S. Geological Survey
855 Oak Grove Avenue
Menlo Park, California 94025

Prepared in cooperation with

California Department of Water Resources
California Department of Transportation
California Water Resources Control Board
Coachella Valley County Water District
Desert Water Agency
Georgetown Divide Public Utility District
Monterey County Flood Control and Water Conservation District
Orange County Flood Control District
Orange County Water District
Riverside County Flood Control and Water Conservation District
San Diego County
San Bernardino Valley Municipal Water District
San Luis Obispo County Engineering Department
San Mateo County Flood Control District
San Rafael, City of
Santa Clara Valley Water District
Santa Cruz County Flood Control and Water Conservation District
Siskiyou County Flood Control and Water Conservation District
Solano Irrigation District
United Water Conservation District
University of California (Berkeley)
University of California (Davis)
Ventura County Flood Control District

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WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED

(Letters after station name designate type of data: (c) chemical, (b) biological, (t) water temperature, and (s) sediment)

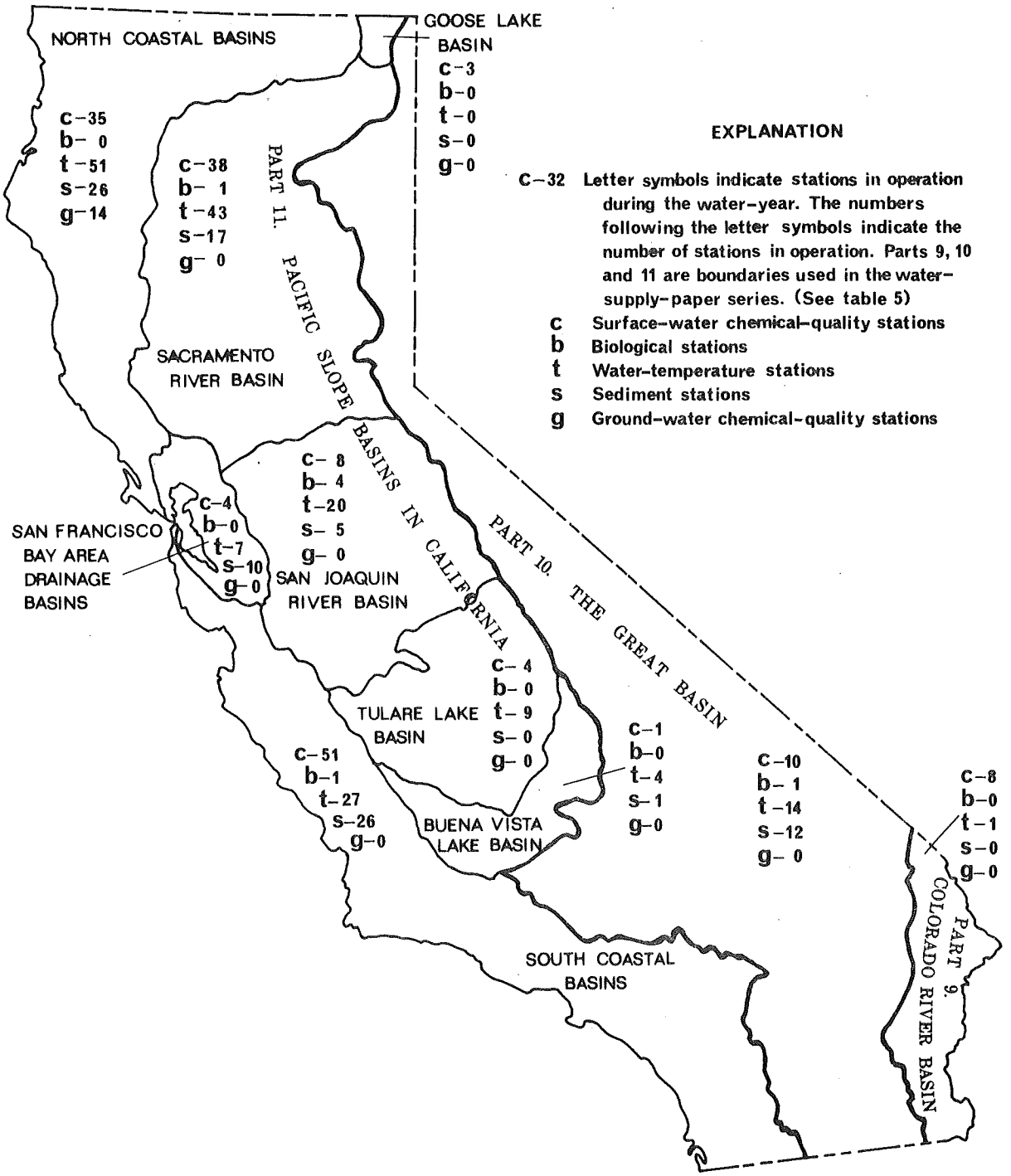

FIGURE 1.--Drainage-basin boundaries and number and distribution of water-quality stations.

WATER RESOURCES DATA FOR CALIFORNIA, 1974

PART 2. WATER QUALITY RECORDS

INTRODUCTION

Water-resources data for the 1974 water year for California include records of data for the chemical, physical, and biological characteristics of surface and ground water. These data were collected from designated sampling sites at predetermined intervals such as once daily, weekly, monthly, or less frequently, and at some sites data were recorded on punched paper tape at 15-, 30-, or 60-minute intervals. The distribution, type, and number of stations in each river or drainage basin are shown in figure 1. A few pertinent stations in bordering States are also included. The records were compiled by the Water Resources Division of the U.S. Geological Survey under the direction of Lee R. Peterson, district chief. These data represent that part of the National Water Data System collected by the Geological Survey and cooperating State and Federal agencies in California.

The Geological Survey has published records of chemical quality, water temperatures, and sediment since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Beginning with the 1964 water year, water-quality records have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year. These records will be published later in Geological Survey water-supply papers.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreement with the following organizations:

California Department of Water Resources, J. R. Teerink, director.
California Department of Transportation, Sam Helwer, director.
California Water Resources Control Board, B. B. Dendy, executive officer.
Coachella Valley County Water District, L. O. Weeks, general manager-chief engineer.
Desert Water Agency, P. G. Payne, general manager.
Georgetown Divide Public Utility District, C. F. Gierau, general manager.
Monterey County Flood Control and Water Conservation District, Loran Bunte, Jr., district engineer.
Orange County Flood Control District, H. G. Osborne, chief engineer.
Orange County Water District, N. G. Cline, secretary-manager.
Riverside County Flood Control and Water Conservation District, J. W. Bryant, chief engineer.
San Diego, County of, Department of Sanitation and Flood Control, C. J. Houson, director.
San Bernardino Valley Municipal Water District, J. A. Beaver, general manager.
San Luis Obispo County Engineering Department, G. C. Protopapas, county engineer.
San Mateo County Flood Control District, V. K. Sanders, manager.
San Rafael, City of, Ely Caillouette, 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.
Siskiyou County Flood Control and Water Conservation District, D. A. Gravenkamp, director of public works.
Solano Irrigation District, Brice Bledsoe, secretary-manager.
United Water Conservation District, R. A. Smith, general manager-chief engineer.
University of California (Berkeley), A. S. Leopold, professor of zoology.
University of California (Davis), Division of Environmental Studies, Robert Leonard, department of zoology.
Ventura County Department of Public Works, J. B. Quinn, deputy director.

Assistance in the form of funds was given by the Bureau of Reclamation and the National Park Service, U.S. Department of the Interior; the U.S. Department of Housing and Urban Development; the Corps of Engineers, U.S. Army; and the Soil Conservation Service and the Forest Service, U.S. Department of Agriculture.

Agencies furnishing assistance were:

Alameda County Water District
Los Angeles (City), Department of Water and Power
Los Angeles County Flood Control District
Los Angeles Municipal Water District
Metropolitan Water District of Southern California
Pacific Gas and Electric Company
Sierra Pacific Power Company
Southern California Edison Company

DEFINITION OF TERMS

Terms related to streamflow, water-qualtiy, and other hydrologic data, as used in this report, are defined below. See also table 6 for converting English units to International System of units (SI).

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 metres.

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

Bacteria are the microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are described as aerobic, and facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C (degrees Celsius).

Fecal coliform bacteria are the coliform bacteria group that are present in the intestine or feces of warmblooded animals. They are often used as an indicator of the sanitary quality of the water.

Fecal streptococcal bacteria are a group of bacteria found in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are defined as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth.

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 litre, used in the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time.

Ash weight is the weight or amount of residue present after the material from the dry weight determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour.

Dry weight refers to the weight or amount of material present after drying in an oven at a particular temperature, for example 60°C for zooplankton and 105°C for periphyton, until a constant weight is obtained.

Organic weight or volatile weight of the living substance is the difference between the dry weight and the ash weight, and represents the actual weight of the living matter.

Wet weight is the weight of living matter, plus its contained water.

Carotene refers to any of several yellow to red pigments occurring in plants and in the fatty tissues of plant-eating animals.

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

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 metres. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimetre from 1 square kilometre.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds in water and varies with water composition(s), temperature, period of contact, and other factors.

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 metres per second.

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

Mean discharge is the arithmetic average of discharge during a specific period.

Instantaneous discharge is the discharge at a given time.

Diversity index (Shannon and Weaver, 1949) is a numerical rating of the variety of the aquatic organisms. The formula for diversity index is

$\bar{d} = \sum_{i=1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$ where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa. Diversity index values range from 0 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.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

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 and carbonate ($CaCO_3$).

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 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. Examples of metamorphic stages of insects are egg-larva-pupa-adult or egg-nymph-adult.

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

Micrograms per litre (ug/l, UG/L) is a unit expressing the concentration of chemical constituents in solution as weight of solute per unit volume (litre) of water and as the concentration of plant pigments, such as chlorophyll, as weight of pigment per unit volume (litre) of water. One thousand micrograms per litre is equivalent to one milligram per litre.

Milligrams per litre (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution and the weight of suspended matter. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1. Concentration of suspended sediment also is expressed in milligrams per litre, and is based on the weight of sediment per litre of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2. Dry weight, ash weight, and organic weight values of suspended matter (seston) are expressed in milligrams per litre.

Nekton are the consumers of the aquatic environment consisting of large free-swimming organisms that are capable of sustained, directed mobility.

Organism is any living entity, such as an insect, phytoplankter, or zooplankter.

Cells/volume (cells/ml, cells/l) refers to the number of phytoplankton that are counted by using a microscope and grid or counting cell. Multi-celled phytoplankton are counted by enumerating all the individual contained cells in the filament or colony.

Organism count/area (organisms/m^2, organisms/acre, or organisms/ha) refers to the number of organisms collected and enumerated in a sample and adjusted to the number per unit area of the habitat. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/unit volume (organisms/ml, organisms/l) refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume. Numbers of planktonic organisms are expressed in these terms.

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

Particle size is the diameter, in millimetres (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawl 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.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

[Constituents followed by an asterisk(*) are reported in micrograms per litre; multiply by factor and divide results by 1,000]

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*	0.11119	Iodide (I^{-1})	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3})*	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})	.03333	Nickel (Ni^{+2})*	.03406
Chloride (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6})*	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2})*	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})*	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})*	.03060

Table 2.--Factors for conversion of sediment concentration in milligrams per litre to parts per million[1]

[All values calculated to three significant figures]

Range of concentration in 1,000 mg/l	Divide by	Range of concentration in 1,000 mg/l	Divide by	Range of concentration in 1,000 mg/l	Divide by	Range of concentration in 1,000 mg/l	Divide by
0-8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05-24	1.01	218-232	1.14	427-440	1.27	636-650	1.40
24.2-40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5-56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5-72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5-88	1.05	282-297	1.18	492-506	1.31	700-715	1.44
88.5-104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105-120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121-136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137-152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153-169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170-185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186-200	1.12	395-409	1.25	604-617	1.38		

[1]Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

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 portion of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

Periphyton are the assemblage of 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.

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

Phytoplankton are 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 elements. Phytoplankton are expressed as the number of cells per unit volume of water or types and number of organisms per unit volume of water.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll.

Diatoms are the unicellular or colonial algae having a siliceous shell.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes.

Zooplankton are the animal part of the plankton. They are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye.

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.

Milligrams of carbon per unit area or volume per unit time [(mg C/m^2)/time for periphyton and macrophytes and (mg C/m^2)/time or (mg C/m^3)/time for phytoplankton] are units for expressing primary productivity. They define the amount of carbon fixed in the organic matter of the phytoplankton as measured by radioactive carbon (carbon-14).

Milligrams of oxygen per unit area or volume per unit time [(mg O_2/m^2)/time for periphyton and macrophytes and (mg O_2/m^2)/time or (mg O_2/m^3)/time for phytoplankton] are the units for expressing primary productivity. They estimate productivity and respiration rates as determined from changes in the measured dissolved oxygen concentration. Unit time may be expressed per hour or per day depending on the incubation period.

Sediment is solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposted 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 quantity of sediment transported in a stream by rolling, sliding, or skipping along the bed and very close to it; that is, within the bed layer.

Bed material is the sediment mixture of which the moving streambed is composed.

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 discharge is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge times milligrams per litre times 0.0027.

Total-sediment discharge or total sediment load is the sum of suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time.

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 above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).

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

Seston is the total suspended particulate matter in water. The concentration (weight) of seston is expressed in milligrams per litre.

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 a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids content in the water. Commonly, dissolved solids (in milligrams per litre) is about 65 percent of the specific conductance (in micromhos per centimetre at 25°C). 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.

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 placed in a stream or lake for colonization of organisms.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with the Kingdom and ending with Species. The higher the classification level, the fewer features the organisms have in common.

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 digital format on punched paper tape.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the water year.

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 litre by 0.00136.

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

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).

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Weight-percent-organic-matter is the approximate percentage of organic matter, by weight, in the sample. Values were determined by a method modified from one described by Anderson (1963).

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 bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD River Stations provide indices of runoff and the general distribution of water in the principal river basins of the conterminous United States and Alaska.

Irrigation network stations are water-quality stations located at or near certain streamflow gaging stations west of the main stem of the Mississippi River. Data collected at these stations are used to evaluate the chemical quality of surface waters used for irrigation and the changes resulting from the drainage or irrigated lands. Prior to water year 1966, the data for these stations were published in the annual water-supply-paper series, "Quality of Surface Water for Irrigation, Western States."

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 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 stream quality.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly 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 potential contamination could result from the application of the commonly used insecticides and herbicides.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major catagories of pesticides includes insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, there have been almost 60,000 pesticide formulations registered, each containing at least one of the approximately 800 different basic pesticide compounds. The United States annually produces about 1 billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast-acting and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966, p. 257). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are natural uranium in micrograms per litre (ug/l), radium as radium-226 in picocuries per litre (PC/L, pCi/l), gross beta radiation as equivalent strontium/yttrium-90 or cesium-137 in picocuries per litre (PC/L) and gross alpha radiation as micrograms of uranium equivalent per litre (ug/l). Gross alpha and beta radioactivity associated with the fine-grained (silt and clay sized) sediments in the samples are also determined.

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

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each water-quality station, gaging station, and partial-record station has been assigned a station number. These are in the same downstream order 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 in 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 11264500 which appears just to left of the station name includes the 2-digit number "11" plus the 6-digit downstream order number "264500." 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 in this report are 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.

Downstream order station numbers are not assigned to sites where only random water-quality samples are taken. These sites are classified as water-quality miscellaneous sites, and as a means of location and identification a 15-digit number consisting of the latitude and longitude coordinates to the nearest second for each site plus a 2-digit sequential number are assigned. For example, the station number for a water-quality miscellaneous site with a lat 42°28'47", long 071°41'04" would be 422847071410401.

WELL NUMBER

The well-numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. 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 is a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well. In the event that the latitude-longitude coordinates are the same for two or more wells or for a surface-water miscellaneous sampling site and a well site, the sequential numbers "01", "02", etc. are used for differentiation within the same sequence. See figure 2.

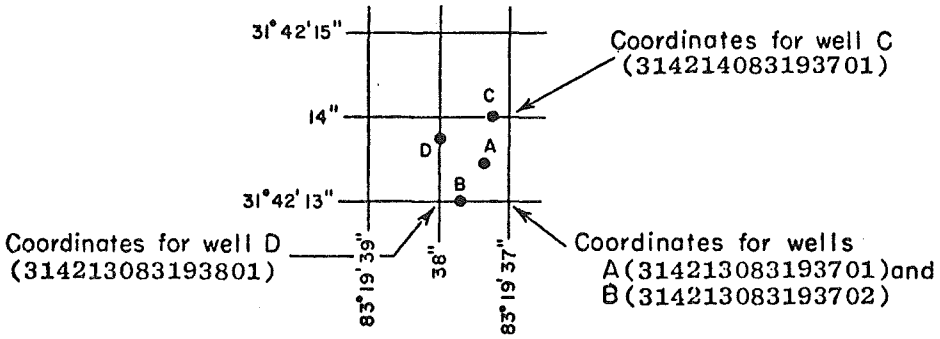

Figure 2.--System for numbering wells (latitude and longitude).

COLLECTION AND EXAMINATION OF DATA

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and the sediment loads. Discharge records for streams in California have been released in the report, "Water Resources Data for California, 1974, Part 1. Surface Water Records, Volumes 1 and 2."

Ground-water well samples included in this report are only a few of the total water-quality samples taken, and are for special baseline monitoring programs.

The data in this report include a description of the sampling station and tabulations of the samples analyzed. The description of the sampling station gives the location, drainage area, periods of record for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations. For ground-water sampling stations, no descriptive statements are given. However, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of ground water.

Water-quality information is presented for chemical quality, biological, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder (thermograph) furnishes information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperatures in degrees Celsius (centigrade, °C). In waters with a density of

1.000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre. Temperature reported in degrees Celsius may be converted to degrees Fahrenheit by using table 3.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definitions of Terms," p. 3.)

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)

[Temperature reported to nearest 0.5°C]

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

Biological and Microbiological Variables

Water samples for bacteria analyses are collected in sterile water-sampling bottles (Van Dorn or Kemmerer-type) or sterile milk dilution bottles. There are individual methods of analyses for the various types of bacteria. Basically, each sample is filtered, preferably within 1 hour but not more than 6 hours after collection, through sterile membrane filters using dilutions determined by the estimated bacterial quality of the water. Fecal streptococcal bacteria are present in fewer numbers than coliform bacteria, so the filtered volume of sample must be larger that that used for other bacterial determinations.

In the determination of total coliform bacteria, the samples are incubated in an enriched nutrient medium at 35°C ±1.0°C for 18-24 hours. For fecal coliform bacteria, the samples are incubated at 44.5°C ±0.2°C for 22 hours ±2 hours. For fecal streptococcal bacteria, the samples are incubated at 35°C ±1.0°C for 48 hours ±2 hours.

After incubation, the number of colonies of each type of bacteria are counted under a lighted dissecting-type microscope. The counts are reported as colonies per 100 millilitres of sample. A complete description of the methods for analysis of each type of bacteria is given in Slack and others (1973).

Benthic organisms are collected with a variety of devices. Usually a clamshell-type grab, which closes upon contact with the bottom substrate, is used in deep water. In soft mud or detritus, a spring-loaded messenger-tripped Ekman grab can be used. In hard substrates a weighted grab may be required. In shallower water and riffle areas of streams, a Surber sampler is a useful sampling device. Artificial substrates may also be used for collection. After collection the benthic organisms are removed from the sample and placed in collection bottles and preserved with ethyl or isopropyl alcohol, or a similar preservative.

In the laboratory, the organisms are identified with the use of a stereoscopic microscope, and the number of individuals of each taxa are enumerated. The number of benthic organisms per area sampled and the percentage composition of each taxon in the sample may be calculated. The diversity of the benthic organism community may also be calculated. Biomass measurements, in grams per square metre, can be used to express the quantity of the organic material in a sample of benthic organisms.

Fish are collected with a seine, gill net, electrofishing gear, or by hand. Length-weight relations can be used to compare fish growth from several streams, and comparisons in species composition with time may reveal water-quality trends.

Macrophytes are collected with hooks, rakes, dredges, or by hand. The entire plant is collected, preserved, and analyzed for types and distribution. The density of macrophytes per unit area is expressed in square metres, or as the percentage of water surface covered.

Periphyton are collected with artificial substrates made of plastic or fiberboard materials, or from natural substrates. Artificial substrates are placed in the water, and after a sufficient time for colonization (usually 4 to 6 weeks), the substrates are removed from the water. The periphyton are scraped from a measured area of each substrate and preserved in a dilute formaldehyde solution or Lugol's solution for identification. Samples for biomass measurements should be air dried or frozen.

In the laboratory, the samples are examined for types and numbers using a Sedgwick-Rafter counting cell or an inverted microscope. Periphyton concentrations are reported as the number of cells or organisms per area of scraped surface. Biomass determinations of periphyton, expressed as grams per square metre, include measurements of dry weight, ash weight, and the calculation of organic weight.

Phytoplankton are collected with a water-sampling bottle (Van Dorn or Kemmerer-type), depth-integrated sampler, or net. In most studies concerned with phytoplankton types and abundance, the samples are collected at various depths in the euphotic (lighted) zone with a water bottle.

After collection, the samples are preserved in a dilute formaldehyde solution or Lugol's solution, or if analysis will begin within 2 or 3 hours, the samples may be chilled at 3-4°C. In the laboratory the samples are examined for types and numbers, using either the Sedgwick-Rafter, inverted microscope, or membrane filter methods. Phytoplankton concentrations are reported as the number of cells or organisms per unit volume. Phytoplankton biomass can be estimated by spectrographically measuring the amount of cellular chlorophyll extract. Primary production measurements can also be made on phytoplankton samples using the carbon-14 method or the oxygen light- and dark-bottle method.

Seston can be collected at any depth using a water-sampling bottle, or at depths representative of the entire flow of a stream using a depth-integrating sampler. The sample volume should be adjusted to the amount of suspended material present.

After collection, water samples for seston should be chilled or preserved if filtration is not begun immediately. The sample is filtered through a tared glass-fiber filter to remove the particulate matter. The increase in weight of the filter after drying at 75°C is the measure of the dry weight of particulate matter in the sample. The residue then may be ashed at 500°C, and the organic weight of particulate matter in the sample determined as the difference between the dry weight and ash weight. All biomass determinations of seston are expressed in milligrams per litre.

Zooplankton vary widely in size and are motile, thus they require a variety of sampling techniques. Many zooplankton, such as the copepods and cladecerons, migrate vertically, approaching the surface at night and moving to lower depths at dawn. Vertical movement, and the ability of zooplankton to avoid sampling devices, must be considered in their collection.

Zooplankton are collected with a water-sampling bottle (Van Dorn or Kemmerer-type), sampling tube, water pump, plankton trap, Clarke-Bumpus plankton sampler, or plankton net. The type of sampler to be used depends upon the abundance of zooplankton present and the objectives of the study. There is no single method that can qualitatively and quantitatively sample an entire zooplankton community.

The water sample and contained zooplankton are transferred to sample containers. Samples for species identification and cell counts are preserved in a dilute formaldehyde solution, and those for biomass determinations are preserved by freezing with dry ice.

In the laboratory, the zooplankton are identified and the total number of cells or organisms enumerated using the counting chamber or the Sedgwick-Rafter method. Zooplankton concentrations are reported as the number of cells or organisms per unit volume of water sampled. Zooplankton biomass is reported as the dry weight, ash weight, and weight of organic matter per unit volume of water sampled, usually expressed in grams per cubic metre.

Solutes

Most methods for collecting and analyzing water samples to determine the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). The method for determining elemental constituents by emission spectrographic techniques is described by Barnett and Mallory (1971). Analysis of pesticides, herbicides, and organic substances in water are described by Goerlitz and Lamar (1967), and Goerlitz and Brown (1972). The collection and analysis of aquatic, biological, and microbiological samples are described by Slack and others (1973).

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 measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with noncontinuous-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 U.S. Geological Survey district office at the address given on the back of the title page of this report.

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.

Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. For daily stations, the water temperatures are taken at about the same time each day when sample is collected. Large streams have a small diurnal 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.

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 those 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 for that day 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 the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

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 litre 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 since October 1970. Scales are available for those instruments providing a readout in either milligrams per litre or in Jackson turbidity units. Hence, conversion of data for the period July 1966 through September 1970 from parts per million or milligrams per litre of silica to Jackson turbidity units can be made by use of table 4.

Table 4.--Conversion of turbidity values, measured by Hach Turbidimeters Model 1860 or 2100 from parts per million or milligrams per litre 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
1,000	440

WATER-SUPPLY PAPERS

Table 5 shows the numbers of the annual series of Geological Survey water-supply papers that give information on quality of surface waters in California. Data for the Colorado River basin are given in part 9, the Great Basin in part 10, and Pacific slope basins in California in part 11.

Table 5.--Water-supply papers containing records for parts 9-11, water years 1941-71

Water year	Water-supply paper	Water year	Water-supply paper	Water year	Water-supply paper
1941	942	1951	1200	1961	1885
1942	950	1952	1253	1962	1945
1943	970	1953	1293	1963	1951
1944	1022	1954	1353	1964	1958
1945	1030	1955	1403	1965	1965
1946	1050	1956	1453	1966	1995
1947	1102	1957	1523	1967	2015
1948	1133	1958	1574	1968	2098, 2099
1949	1163	1959	1645	1969	2148, 2149
1950	1189	1960	1745	1970	2158, 2159
				1971	A2168,A2169

A In preparation

SELECTED REFERENCES

American Public Health Association, American Water Works Association, Water Pollution Control Federation, 1971, Standard methods for the examination of water and wastewater [13th ed.]: Washington, D.C., Am. Public Health Assoc., 874 p.

Anderson, J. U., 1963, Improved pretreatment for mineralogical analysis of samples containing organic matter, in Tenth national conference on clay and clay minerals: New York, MacMillan and Co., p. 380-388.

Barker, F. B., and Johnson, J. O., 1964, Determination of radium in water: U.S. Geol. Survey Water-Supply Paper 1696-B, 29 p.

Barker, F. B., Johnson, J. O., Edwards, K. W., and Robinson, B. P., 1965, Determination of uranium in natural water: U.S. Geol. Survey Water-Supply Paper 1696-C, 25 p.

Barker, F. B., and Robinson, B. P., 1963, Determination of beta activity in water: U.S. Geol. Survey Water-Supply Paper 1969-A, 32 p.

Barnett, P. R., and Mallory, E. C., Jr., 1971, Determination of minor elements in water by emission spectroscopy: U.S. Geol. Survey Techniques Water-Resources Inv., book 5, chap. A2, 31 p.

Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Survey Techniques Water-Resources Inv., book 5, chap. A1, 160 p.

Colby, B. R., 1963, Fluvial sediments--A summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.

Colby, B. R., and Hembree, C. H., 1955, Computations of total sediment discharge, Niobrara River near Cody, Nebraska: U.S. Geol. Survey Water-Supply Paper 1357, 187 p.

Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.

Goerlitz, D. F., and Brown, Eugene, 1972, Methods for analysis of organic substances in water: U.S. Geol. Survey Techniques Water-Resources Inv., book 5, chap. A3, 40 p.

Goerlitz, D. F., and Lamar, W. L., 1967, Determination of phenoxy acid herbicides in water by electron-capture and microcoulometric gas chromatography: U.S. Geol. Survey Water-Supply Paper 1817-C, 21 p.

Guy, H. P., 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. C1, 57 p.

_____1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. C1, 55 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. C2, 59 p.

Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water [2d ed.]: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.

Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.

Porterfield, George, 1972, Computation of fluvial-sediment discharge: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. C3, 66 p.

Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle sizes of coarse sediment: U.S. Geol. Survey Techniques Water-Resources Inv., book 5, chap. C3, 33 p.

Rose, Arthur and Elizabeth, 1966, The condensed chemical dictionary [7th ed.]: New York, Reinhold Pub. Corp., 1044 p.

Slack, K. V., Averett, R. C., Greeson, P. E., and Lipscomb, R. G., 1973, Methods for collection and analysis of aquatic, biological, and microbiological samples: U.S. Geol. Survey Techniques Water-Resources Inv., book 5, chap. A4, 165 p.

Shannon, C. E., and Weaver, W., 1949, The mathematical theory of communication: Urbana, Ill., Ill. Univ. Press, 117 p.

U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, 1963, Determinations of fluvial sediment discharge, Report 14 of A study of methods used in measurement and analysis of sediment loads in streams: Minneapolis, Minn., St. Anthony Falls Hydraulic Laboratory, 151 p.

09421500 COLORADO RIVER BELOW HOOVER DAM, ARIZ.-NEV.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
OCT.								
16...	330	190	2.7	1080	8.0	11.5	--	170
NOV.								
19...	310	180	2.5	1080	7.9	10.5	--	120
DEC.								
20...	330	190	2.4	1080	8.0	11.5	--	120
JAN.								
16...	330	200	2.4	1110	7.6	12.0	10.2	130
FEB.								
15...	340	210	2.4	1100	7.9	10.5	--	140
MAR.								
26...	330	210	2.4	1110	8.0	10.5	--	140
APR.								
17...	340	210	2.3	1100	7.9	12.0	--	160
MAY								
21...	340	210	2.3	1120	7.8	12.0	--	140
JUNE								
13...	340	210	2.4	1110	8.0	12.0	--	140
JULY								
17...	340	210	2.4	1090	7.7	12.0	--	140
AUG.								
19...	340	200	2.4	1090	7.4	13.0	--	130
SEP.								
25...	320	190	2.4	1080	--	13.0	--	0

09423000 COLORADO RIVER BELOW DAVIS DAM, ARIZ.-NEV.

LOCATION.--Lat 35°11'30", long 114°34'17", in SE¼NE¼ sec.1, T.32 S., R.66 E., Mount Diablo meridian, in Nevada, Clark County, at gaging station on right bank 0.5 mi (0.8 km) downstream from Davis Dam, 29 mi (47 km) west of Kingman, Ariz., and 68 mi (109 km) downstream from Hoover Dam.

DRAINAGE AREA.--169,300 mi² (438,500 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to current year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
01...	1135	19300	10	30	82	29	110	5.1	147	0	330	90
NOV.												
01...	0745	4730	9.1	10	82	29	110	5.6	148	0	290	92
DEC.												
17...	1330	14230	9.5	10	83	30	110	5.1	152	0	290	91
FEB.												
01...	0730	20110	9.1	0	87	29	100	5.1	157	0	310	91
MAR.												
01...	0840	15630	9.1	10	86	30	100	5.2	160	0	300	88
APR.												
04...	0930	19490	8.8	10	86	29	110	4.9	159	0	300	86
MAY												
01...	0745	13610	5.9	20	88	29	100	5.0	157	0	310	88
JUNE												
03...	1230	19420	7.2	20	87	29	100	4.9	158	0	300	86
JULY												
01...	1530	24540	8.5	80	86	28	100	5.5	156	0	290	87
AUG.												
01...	0850	13710	9.2	0	86	30	100	5.7	155	--	300	91
SEP.												
03...	1140	19450	9.1	30	87	29	100	4.8	154	--	290	88

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED BORON (B) (UG/L)
OCT.												
01...	.3	.23	736	730	1.00	320	200	2.7	1110	7.9	19.0	150
NOV.												
01...	.3	.20	716	692	.97	320	200	2.7	1110	8.2	17.0	150
DEC.												
17...	.4	.32	731	696	.99	330	210	2.6	1110	8.1	11.5	130
FEB.												
01...	.3	.32	718	710	.98	340	210	2.4	1090	8.1	9.0	140
MAR.												
01...	.4	.30	720	699	.98	340	210	2.4	1110	8.2	10.0	130
APR.												
04...	.4	.28	734	705	1.00	330	200	2.6	1110	8.2	14.0	140
MAY												
01...	.4	.23	727	705	.99	340	210	2.4	1120	8.0	16.0	140
JUNE												
03...	.3	.23	726	693	.99	340	210	2.4	1120	8.0	18.0	140
JULY												
01...	.3	.28	717	684	.98	330	200	2.4	1104	7.8	18.5	150
AUG.												
01...	.4	.28	716	700	.97	340	210	2.4	1100	--	18.0	140
SEP.												
03...	.3	.25	727	685	.99	340	210	2.4	1100	--	16.0	140

09424150 COLORADO RIVER AQUEDUCT NEAR PARKER DAM, ARIZ.-CALIF.

LOCATION.--Lat 34°18'58", long 114°09'23", in NW¼SW¼ sec.28, T.3 N., R.27 E., San Bernardino meridian, in California, San Bernardino County, at gaging station at intake pumping plant of Metropolitan Water District of Southern California on Lake Havasu, 1.8 mi (2.9 km) upstream from Parker Dam, and 149 mi (240 km), revised, downstream from Hoover Dam.

PERIOD OF RECORD.--Chemical analyses: October 1966 to current year.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Records of discharge furnished by Metropolitan Water District of Southern California.

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
OCT.												
08...	1730	8.0	77	30	104	4.0	124	4	108	302	92	.4
NOV.												
07...	1720	6.4	76	30	105	4.0	123	2	104	302	93	.4
JAN.												
08...	1530	8.9	85	30	104	4.0	149	0	122	300	89	.5
FEB.												
04...	860	8.2	84	31	109	5.0	150	1	125	307	92	.4
MAR.												
10...	1690	7.8	81	30	106	4.0	149	0	122	305	88	.4
APR.												
07...	1730	7.2	87	30	104	4.0	155	1	129	304	88	.4
MAY												
05...	1770	6.8	89	30	106	5.0	155	1	129	315	87	.4

DATE	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)
OCT.											
08...	.02	684	.93	3200	318	210	41	2.5	1090	22.0	0
NOV.											
07...	.02	681	.93	--	315	210	42	2.6	1090	19.0	0
JAN.											
08...	.22	695	.95	2870	334	112	40	2.5	1100	11.0	2
FEB.											
04...	.16	711	.97	1650	337	212	41	2.6	1120	10.0	2
MAR.											
10...	.07	696	.95	3180	326	204	41	2.6	1080	12.0	1
APR.											
07...	.16	702	.95	3280	340	210	40	2.5	1090	18.0	1
MAY											
05...	.09	717	.98	--	344	215	40	2.5	1120	19.5	2

09427520 COLORADO RIVER BELOW PARKER DAM, ARIZ.-CALIF.

LOCATION.--Lat 34°17'44", long 114°08'22", in NW¼NW¼ sec.3, T.2 N., R.27 E., San Bernardino meridian, in California, San Bernardino County, at gaging station at Parker Dam, 13 mi (21 km) northeast of Parker, Ariz., and 14 mi (23 km) upstream from Headgate Rock Dam.

DRAINAGE AREA.--178,800 mi² (463,100 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1963 to current year.
Water temperatures: February 1954 to August 1970.
Prior to October 1968, published as 09428000.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
01...	0820	4570	10	10	80	30	110	4.8	143	0	320	93
10...	0900	--	--	--	--	--	--	--	--	--	--	--
17...	0820	--	--	--	--	--	--	--	--	--	--	--
24...	0830	--	--	--	--	--	--	--	--	--	--	--
NOV.												
05...	1300	4850	10	10	88	30	110	5.6	158	0	300	96
12...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
DEC.												
03...	--	6390	10	20	86	30	110	5.3	156	0	300	95
10...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--
28...	0945	4550	9.5	10	85	29	110	4.9	156	0	310	91
JAN.												
07...	0815	--	--	--	--	--	--	--	--	--	--	--
14...	0830	--	--	--	--	--	--	--	--	--	--	--
21...	0830	--	--	--	--	--	--	--	--	--	--	--
28...	0830	--	--	--	--	--	--	--	--	--	--	--
FEB.												
04...	0830	4270	9.0	20	85	30	110	6.0	155	0	310	93
11...	0820	--	--	--	--	--	--	--	--	--	--	--
19...	0750	--	--	--	--	--	--	--	--	--	--	--
25...	0845	--	--	--	--	--	--	--	--	--	--	--
MAR.												
04...	0800	9600	9.0	0	86	30	110	5.6	157	0	310	94
11...	0900	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
01...	0755	13400	8.8	10	86	29	100	4.6	154	0	310	91
08...	0740	--	--	--	--	--	--	--	--	--	--	--
15...	0800	--	--	--	--	--	--	--	--	--	--	--
22...	0800	--	--	--	--	--	--	--	--	--	--	--
29...	0905	18600	10	40	93	30	110	5.3	173	0	310	92
MAY												
06...	0830	--	--	--	--	--	--	--	--	--	--	--
13...	0840	--	--	--	--	--	--	--	--	--	--	--
20...	0830	--	--	--	--	--	--	--	--	--	--	--
28...	0800	--	--	--	--	--	--	--	--	--	--	--
JUNE												
03...	0830	11700	6.7	20	87	30	110	4.5	158	0	300	90
10...	0830	--	--	--	--	--	--	--	--	--	--	--
17...	0900	--	--	--	--	--	--	--	--	--	--	--
24...	0830	--	--	--	--	--	--	--	--	--	--	--
JULY												
01...	0830	18600	8.0	10	85	29	110	5.0	159	0	310	90
08...	0830	--	--	--	--	--	--	--	--	--	--	--
15...	0830	--	--	--	--	--	--	--	--	--	--	--
22...	0800	--	--	--	--	--	--	--	--	--	--	--
29...	0830	--	--	--	--	--	--	--	--	--	--	--
AUG.												
05...	0840	18400	8.7	30	81	30	110	5.8	144	0	290	91
12...	0830	--	--	--	--	--	--	--	--	--	--	--
19...	0830	--	--	--	--	--	--	--	--	--	--	--
26...	0805	--	--	--	--	--	--	--	--	--	--	--
SEP.												
03...	0830	9310	9.1	20	78	30	90	5.4	150	--	280	87
09...	0820	--	--	--	--	--	--	--	--	--	--	--
16...	0810	--	--	--	--	--	--	--	--	--	--	--
23...	0815	--	--	--	--	--	--	--	--	--	--	--
30...	0830	6640	8.8	20	82	28	100	5.5	145	--	300	88

09427520 COLORADO RIVER BELOW PARKER DAM, ARIZ.-CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (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)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
OCT.												
01...	.4	.23	700	720	.98	320	210	2.7	1100	7.9	--	190
10...	--	--	696	--	.95	--	--	--	1100	--	--	--
17...	--	--	702	--	.95	--	--	--	1100	--	--	--
24...	--	--	712	--	.97	--	--	--	1120	--	--	--
NOV.												
05...	.3	.63	718	721	.98	340	210	2.6	1130	7.8	--	130
12...	--	--	718	--	.98	--	--	--	1130	--	--	--
19...	--	--	712	--	.97	--	--	--	1120	--	--	--
26...	--	--	696	--	.95	--	--	--	1120	--	--	--
DEC.												
03...	.4	.54	714	716	.97	340	210	2.6	1130	7.6	--	140
10...	--	--	714	--	.97	--	--	--	1130	--	--	--
17...	--	--	706	--	.96	--	--	--	1120	--	--	--
28...	.4	.29	706	718	.96	330	200	2.6	1120	8.0	--	140
JAN.												
07...	--	--	714	--	.97	--	--	--	1120	--	--	--
14...	--	--	712	--	.97	--	--	--	1120	--	--	--
21...	--	--	710	--	.97	--	--	--	1120	--	--	--
28...	--	--	714	--	.97	--	--	--	1120	--	--	--
FEB.												
04...	.4	.44	720	722	.98	340	210	2.6	1130	8.1	--	130
11...	--	--	724	--	.98	--	--	--	1130	--	--	--
19...	--	--	710	--	.97	--	--	--	1120	--	--	--
25...	--	--	702	--	.95	--	--	--	1120	--	--	--
MAR.												
04...	.2	.26	700	723	.95	340	210	2.6	1120	8.0	--	120
11...	--	--	698	--	.95	--	--	--	1110	--	--	--
25...	--	--	696	--	.95	--	--	--	1100	--	--	--
APR.												
01...	.4	.40	704	708	.96	330	210	2.4	1110	8.0	--	140
08...	--	--	710	--	.97	--	--	--	1110	--	--	--
15...	--	--	710	--	.97	--	--	--	1120	--	--	--
22...	--	--	718	--	.98	--	--	--	1120	--	--	--
29...	.5	.43	748	738	1.02	360	210	2.5	1160	7.4	16.5	150
MAY												
06...	--	--	712	--	.97	--	--	--	1120	--	--	--
13...	--	--	708	--	.96	--	--	--	1110	--	--	--
20...	--	--	704	--	.96	--	--	--	1120	--	--	--
28...	--	--	716	--	.97	--	--	--	1120	--	--	--
JUNE												
03...	.2	.21	716	707	.97	340	210	2.6	1120	8.1	--	140
10...	--	--	708	--	.96	--	--	--	1120	--	--	--
17...	--	--	706	--	.96	--	--	--	1110	--	24.5	--
24...	--	--	696	--	.95	--	--	--	1100	--	--	--
JULY												
01...	.3	.20	708	717	.96	330	200	2.6	1110	8.0	--	140
08...	--	--	698	--	.95	--	--	--	1100	--	--	--
15...	--	--	698	--	.95	--	--	--	1100	--	--	--
22...	--	--	704	--	.96	--	--	--	1100	--	--	--
29...	--	--	692	--	.94	--	--	--	1090	--	--	--
AUG.												
05...	.3	.14	696	689	.95	330	210	2.7	1090	8.0	--	130
12...	--	--	696	--	.95	--	--	--	1090	--	--	--
19...	--	--	696	--	.95	--	--	--	1090	--	--	--
26...	--	--	686	--	.93	--	--	--	1090	--	--	--
SEP.												
03...	.3	.18	696	655	.95	320	200	2.2	1090	--	--	170
09...	--	--	690	--	.94	--	--	--	1090	--	--	--
16...	--	--	690	--	.94	--	--	--	1090	--	--	--
23...	--	--	696	--	.95	--	--	--	1090	--	--	--
30...	.3	.10	692	685	.94	320	200	2.4	1090	--	--	400

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.			
17...	1115	--	<1
NOV.			
13	1145	4650	<1
DEC.			
18...	1140	--	
JAN.			
17...	1050	--	<1
FEB.			
12...	1150	8930	<1
MAR.			
26...	1140	18300	<1

09429000 PALO VERDE CANAL NEAR BLYTHE, CALIF.

LOCATION.--Lat 33°43'55", long 114°30'40", in NW¼NE¼ sec.19, T.5 S., R.24 E., San Bernardino meridian, Riverside County, at gaging station at canal intake structure on west side of Palo Verde Dam, 10 mi (16 km) northeast of Blythe, and 44 mi (71 km) downstream from Headgate Rock Dam.

PERIOD OF RECORD.--Chemical analyses: March 1970 to current year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT.												
01...	1110	10	10	83	30	110	5.0	144	0	330	97	.4
09...	0745	--	--	--	--	--	--	--	--	--	--	--
15...	1315	--	--	--	--	--	--	--	--	--	--	--
23...	0830	--	--	--	--	--	--	--	--	--	--	--
29...	0800	--	--	--	--	--	--	--	--	--	--	--
NOV.												
05...	1100	9.6	0	89	32	120	5.5	158	0	310	100	.3
12...	0830	--	--	--	--	--	--	--	--	--	--	--
19...	1145	--	--	--	--	--	--	--	--	--	--	--
26...	0845	--	--	--	--	--	--	--	--	--	--	--
DEC.												
03...	0820	10	40	93	31	120	5.6	165	0	330	110	.4
10...	1200	--	--	--	--	--	--	--	--	--	--	--
18...	0800	--	--	--	--	--	--	--	--	--	--	--
28...	0745	9.5	20	86	29	110	5.0	162	0	310	98	.4
JAN.												
08...	1100	--	--	--	--	--	--	--	--	--	--	--
14...	1040	--	--	--	--	--	--	--	--	--	--	--
21...	1000	--	--	--	--	--	--	--	--	--	--	--
28...	1130	--	--	--	--	--	--	--	--	--	--	--
FEB.												
04...	0750	8.9	20	85	30	110	5.7	157	0	320	95	.3
11...	0730	--	--	--	--	--	--	--	--	--	--	--
19...	0730	--	--	--	--	--	--	--	--	--	--	--
25...	1020	--	--	--	--	--	--	--	--	--	--	--
MAR.												
04...	0740	9.2	0	88	30	110	5.2	159	0	330	96	.4
11...	0740	--	--	--	--	--	--	--	--	--	--	--
18...	0815	--	--	--	--	--	--	--	--	--	--	--
25...	0735	--	--	--	--	--	--	--	--	--	--	--
APR.												
01...	0750	8.8	10	88	30	110	5.1	155	0	320	100	.4
08...	0800	--	--	--	--	--	--	--	--	--	--	--
15...	0745	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
29...	0725	8.1	50	90	31	110	5.4	161	0	320	91	.3
MAY												
06...	0745	--	--	--	--	--	--	--	--	--	--	--
13...	0640	--	--	--	--	--	--	--	--	--	--	--
20...	0800	--	--	--	--	--	--	--	--	--	--	--
28...	0725	6.3	20	88	30	110	4.7	159	0	310	91	.3
JUNE												
03...	1040	--	--	--	--	--	--	--	--	--	--	--
10...	0735	--	--	--	--	--	--	--	--	--	--	--
17...	0735	--	--	--	--	--	--	--	--	--	--	--
24...	0650	--	--	--	--	--	--	--	--	--	--	--
JULY												
01...	0745	8.2	10	85	29	110	5.1	161	0	310	94	.3
08...	0730	--	--	--	--	--	--	--	--	--	--	--
15...	0650	--	--	--	--	--	--	--	--	--	--	--
22...	0740	--	--	--	--	--	--	--	--	--	--	--
29...	0810	--	--	--	--	--	--	--	--	--	--	--
AUG.												
05...	0655	8.9	20	84	29	110	5.8	151	0	290	95	.3
12...	0640	--	--	--	--	--	--	--	--	--	--	--
19...	0705	--	--	--	--	--	--	--	--	--	--	--
26...	0705	--	--	--	--	--	--	--	--	--	--	--
SEP.												
03...	0700	9.3	10	90	28	110	5.7	152	--	290	110	.3
09...	0735	--	--	--	--	--	--	--	--	--	--	--
16...	0715	--	--	--	--	--	--	--	--	--	--	--
23...	0725	--	--	--	--	--	--	--	--	--	--	--
30...	0720	9.6	20	86	29	120	5.8	153	--	310	110	.4

09429000 PALO VERDE CANAL NEAR BLYTHE, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED NITRITE PLUS NITRATE (N) (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)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
OCT.											
01...	.16	728	737	1.00	330	210	2.6	1120	8.2	24.5	150
09...	--	736	--	1.00	--	--	--	1140	--	22.0	--
15...	--	714	--	.97	--	--	--	1120	--	23.0	--
23...	--	732	--	1.00	--	--	--	1160	--	20.0	--
29...	--	740	--	1.01	--	--	--	1170	--	19.5	--
NOV.											
05...	.20	758	745	1.03	350	220	2.8	1170	8.3	17.0	120
12...	--	764	--	1.04	--	--	--	1200	--	19.0	--
19...	--	730	--	.99	--	--	--	1140	--	--	--
26...	--	762	--	1.04	--	--	--	1210	--	14.5	--
DEC.											
03...	.34	764	783	1.04	360	220	2.8	1210	7.9	13.5	140
10...	--	746	--	1.01	--	--	--	1170	--	14.0	--
18...	--	742	--	1.01	--	--	--	1180	--	12.0	--
28...	.30	746	729	1.01	330	200	2.6	1160	8.1	11.5	130
JAN.											
08...	--	750	--	1.02	--	--	--	1190	--	11.5	--
14...	--	776	--	1.06	--	--	--	1240	--	13.0	--
21...	--	734	--	1.00	--	--	--	1160	--	13.5	--
28...	--	720	--	.98	--	--	--	1140	--	10.5	--
FEB.											
04...	.26	720	734	.98	340	210	2.6	1130	8.1	7.0	150
11...	--	750	--	1.02	--	--	--	1170	--	6.0	--
19...	--	742	--	1.01	--	--	--	1140	--	11.5	--
25...	--	808	--	1.10	--	--	--	1300	--	10.0	--
MAR.											
04...	.23	712	748	.97	340	210	2.6	1140	8.1	11.0	130
11...	--	736	--	1.00	--	--	--	1160	--	13.5	--
18...	--	802	--	1.09	--	--	--	1260	--	16.0	--
25...	--	832	--	1.13	--	--	--	1310	--	15.5	--
APR.											
01...	.55	760	741	1.03	340	220	2.6	1180	7.9	17.0	150
08...	--	728	--	.99	--	--	--	1140	--	17.0	--
15...	--	728	--	.99	--	--	--	1140	--	17.0	--
22...	--	726	--	.99	--	--	--	1140	--	19.0	--
29...	.23	744	736	1.01	350	220	2.6	1150	8.0	19.5	230
MAY											
06...	--	730	--	.99	--	--	--	1140	--	20.0	--
13...	--	716	--	.97	--	--	--	1140	--	18.5	--
20...	--	720	--	.98	--	--	--	1140	--	19.0	--
28...	.25	728	720	.99	340	210	2.6	1140	7.9	23.5	150
JUNE											
03...	--	738	--	1.00	--	--	--	1160	--	23.5	--
10...	--	726	--	.99	--	--	--	1140	--	23.5	--
17...	--	728	--	.99	--	--	--	1140	--	26.0	--
24...	--	708	--	.96	--	--	--	1120	--	25.5	--
JULY											
01...	.23	716	722	.98	330	200	2.6	1140	8.0	24.5	160
08...	--	742	--	1.01	--	--	--	1160	--	24.0	--
15...	--	728	--	.99	--	--	--	1140	--	27.0	--
22...	--	736	--	1.00	--	--	--	1140	--	28.0	--
29...	--	734	--	1.00	--	--	--	1150	--	28.5	--
AUG.											
05...	.27	708	699	.96	330	210	2.6	1120	7.9	28.0	130
12...	--	706	--	.96	--	--	--	1110	--	26.5	--
19...	--	750	--	1.02	--	--	--	1180	--	25.0	--
26...	--	706	--	.96	--	--	--	1120	--	24.5	--
SEP.											
03...	.85	744	722	1.01	340	220	2.6	1170	--	25.5	200
09...	--	804	--	1.09	--	--	--	1270	--	--	--
16...	--	908	--	1.23	--	--	--	1430	--	23.5	--
23...	--	864	--	1.18	--	--	--	1360	--	25.0	--
30...	.65	758	750	1.03	330	210	2.9	1190	--	24.5	400

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.

LOCATION.--Lat 32°52'59", long 114°27'55", in NW¼SW¼ sec.9, T.15 S., R.24 E., San Bernardino meridian, Imperial County, Calif., above trash racks at All-American Canal headworks at west end of Imperial Dam, 5 mi (8 km) upstream from Laguna Dam, 15 mi (24 km) northeast of Yuma, Ariz., 90 mi (145 km) downstream from Palo Verde Dam, and 147 mi (237 km) downstream from Parker Dam.

DRAINAGE AREA.--184,600 mi^2 (478,100 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: August 1969 to current year. Prior to October 1971, published as sta 09429500, Colorado River at Imperial Dam, Ariz.-Calif.

EXTREMES.--Current year:
Specific conductance: Maximum daily, 1,840 micromhos Jan. 16; minimum daily, 1,190 micromhos Aug. 4.
Period of record:
Specific conductance: Maximum daily, 1,880 micromhos Nov. 21, 1969; minimum daily, 1,160 micromhos Mar. 26, 27, 1973.

REMARKS.--Stream discharges reported with analyses represent total flow reaching Imperial Dam. Daily specific conductance record furnished by Bureau of Reclamation. Since January 1971, daily specific conductance measurements have been made using a composite of four water samples taken at 6-hour intervals. Composites of four water samples per day are analyzed for major chemical constituents. Tritium analyses available from U.S. Geological Survey, Water Resources Division, Reston, Virginia.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.										
01...	--	8490	9.0	90	33	140	6.3	166	0	345
08...	--	7690	9.0	89	35	145	6.3	172	0	350
15...	--	7150	8.0	90	35	150	6.3	176	0	355
22...	--	6540	8.0	94	33	150	6.3	176	0	355
29...	--	6260	9.0	94	34	150	7.2	182	0	355
NOV.										
05...	--	4850	8.0	99	36	165	6.9	190	0	380
12...	--	5370	7.0	98	33	155	6.2	182	0	365
19...	--	5820	9.0	98	33	155	5.9	184	0	365
26...	--	4680	10	99	36	160	6.3	192	0	370
DEC.										
03...	--	4370	10	103	32	170	6.3	190	0	380
10...	--	4980	8.0	103	31	155	5.8	184	0	370
17...	--	5430	9.0	97	34	150	6.3	180	0	360
24...	--	3780	9.0	105	34	175	6.2	196	0	385
31...	--	5440	10	98	33	160	6.6	184	0	370
JAN.										
07...	--	3910	9.0	99	32	155	6.7	186	0	365
14...	--	2180	10	114	38	205	6.7	222	0	410
21...	--	3410	11	106	38	190	6.7	210	0	400
28...	--	6060	12	95	32	145	6.3	180	0	350
FEB.										
04...	--	7380	8.0	91	32	135	6.2	168	0	340
11...	--	6680	9.0	94	31	140	6.0	176	0	345
18...	--	6950	8.0	94	31	140	6.5	174	0	345
25...	--	8130	8.0	94	33	140	6.3	176	0	350
MAR.										
04...	--	7890	7.0	94	33	140	6.3	176	0	350
11...	--	8390	8.0	94	31	140	6.3	176	0	340
18...	--	9220	9.0	94	31	135	6.1	172	0	340
25...	--	10960	9.0	90	32	130	6.2	172	0	335
APR.										
01...	--	10810	8.0	90	33	135	6.4	174	0	340
08...	--	12360	8.0	91	32	130	6.7	172	0	340
15...	--	11810	8.0	90	33	130	6.5	172	0	340
22...	--	12150	8.0	92	32	135	6.3	176	0	340
29...	--	11600	6.0	91	32	135	6.2	176	0	340
MAY										
06...	--	10220	6.0	95	30	140	6.3	180	0	345
13...	--	9990	6.0	94	31	140	6.3	178	0	340
20...	--	9230	6.0	92	34	140	6.3	180	0	350
29...	--	10500	7.0	94	33	140	6.6	178	0	350
JUNE										
03...	--	9900	6.0	94	31	135	6.4	176	0	340
10...	--	10000	6.0	92	32	135	6.1	176	0	340
17...	--	10300	7.0	93	31	135	6.2	174	0	340
24...	--	11200	7.0	93	31	130	6.4	172	0	340
JULY										
01...	--	12100	7.0	88	34	125	6.6	168	0	335
08...	--	12500	6.0	91	32	130	6.3	172	0	340
15...	--	12500	7.0	87	35	130	6.7	170	0	340
22...	--	10200	8.0	90	33	135	6.2	174	0	340
29...	--	11700	7.0	90	32	130	6.7	168	0	335
AUG.										
05...	--	12740	7.0	89	31	125	6.4	168	0	330
12...	--	12640	8.0	86	34	130	6.4	164	0	335
19...	--	11100	7.0	90	33	130	6.3	168	0	340
26...	--	11000	7.0	88	33	130	6.3	166	0	340
SEP.										
02...	--	9340	7.0	90	33	135	6.3	170	0	345
09...	--	9820	6.0	92	31	135	6.5	168	0	340
16...	--	9460	7.0	93	30	135	6.5	168	0	340
23...	--	9270	7.0	92	31	135	6.5	168	0	340

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (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)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TUR-BID-ITY (JTU)
OCT.										
01...	124	.5	820	831	1.12	224	3.2	1300	8.1	--
08...	128	.5	848	849	1.15	224	3.3	1330	8.1	--
15...	134	.5	866	865	1.18	226	3.4	1350	8.1	--
22...	131	.6	864	866	1.18	226	3.4	1350	8.0	--
29...	135	.6	894	876	1.22	226	3.4	1370	8.2	--
NOV.										
05...	148	.6	946	938	1.29	239	3.6	1460	8.2	--
12...	140	.6	904	896	1.23	231	3.5	1410	8.0	--
19...	135	.5	896	893	1.22	229	3.5	1400	8.1	--
26...	145	.5	928	923	1.26	238	3.5	1450	8.1	--
DEC.										
03...	155	.6	962	950	1.31	230	3.8	1490	8.1	1
10...	140	.4	944	905	1.28	234	3.4	1420	8.1	1
17...	132	.5	886	879	1.20	232	3.3	1370	8.1	2
24...	158	.5	982	971	1.34	240	3.8	1520	8.1	1
31...	140	.4	956	910	1.30	229	3.6	1430	8.1	1
JAN.										
07...	138	.6	914	898	1.24	228	3.5	1400	8.2	2
14...	200	.6	1110	1100	1.51	258	4.2	1730	8.2	1
21...	180	.5	1040	1040	1.41	248	4.0	1630	8.3	1
28...	128	.6	848	859	1.15	222	3.3	1340	8.1	2
FEB.										
04...	118	.4	796	815	1.08	222	3.1	1270	8.1	3
11...	120	.6	830	832	1.13	220	3.2	1310	8.1	2
18...	120	.5	838	832	1.14	218	3.2	1310	8.1	2
25...	122	.5	836	842	1.14	226	3.2	1320	8.1	2
MAR.										
04...	122	.5	846	841	1.15	226	3.2	1310	8.1	2
11...	120	.6	832	828	1.13	216	3.2	1290	8.1	3
18...	120	.6	828	822	1.13	219	3.1	1280	8.0	3
25...	110	.6	804	799	1.09	214	3.0	1240	8.1	3
APR.										
01...	115	.6	816	815	1.11	218	3.1	1270	8.1	2
08...	112	.6	808	805	1.10	219	3.0	1260	8.1	2
15...	112	.6	804	806	1.09	219	3.0	1260	8.1	2
22...	115	.6	820	817	1.12	216	3.1	1270	8.1	2
29...	115	.6	818	814	1.11	216	3.1	1270	8.0	2
MAY										
06...	118	.6	834	830	1.13	212	3.2	1300	8.1	2
13...	118	.6	824	825	1.12	214	3.2	1290	8.0	2
20...	118	.6	840	837	1.14	222	3.2	1300	8.0	2
29...	122	.7	844	842	1.15	224	3.2	1320	8.1	1
JUNE										
03...	118	.6	830	819	1.13	216	3.1	1280	--	1
10...	118	.6	822	818	1.12	216	3.1	1280	--	3
17...	115	.6	818	815	1.11	218	3.1	1270	--	1
24...	110	.6	800	804	1.09	219	3.0	1250	--	1
JULY										
01...	108	.6	790	788	1.07	222	2.9	1230	--	2
08...	110	.5	804	802	1.09	219	3.0	1250	--	1
15...	110	.6	806	801	1.10	220	3.0	1250	--	2
22...	115	.5	828	815	1.13	218	3.1	1270	--	1
29...	110	.6	800	795	1.09	217	3.0	1240	--	1
AUG.										
05...	105	.5	782	778	1.06	212	2.9	1220	--	1
12...	112	.5	798	794	1.09	220	3.0	1240	--	2
19...	112	.5	806	803	1.10	222	3.0	1260	--	1
26...	108	.5	800	796	1.09	219	3.0	1240	--	1
SEP.										
02...	115	.7	818	817	1.11	220	3.1	1280	--	1
09...	115	.6	814	810	1.11	217	3.1	1270	--	1
16...	115	.5	814	811	1.11	217	3.1	1270	--	2
23...	115	.5	810	811	1.10	217	3.1	1270	--	1

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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)
MAY								
15...	1140	10240	.29	.28	.00	.01	.29	.29
29...	1100	10360	.19	.19	.02	.00	.21	.19
JUNE								
12...	1140	10560	--	--	--	--	.11	--
26...	1045	12140	--	--	--	--	.01	--
JULY								
10...	1140	13070	--	.13	--	.00	.13	.13
24...	1105	10380	.10	--	.01	--	.11	--
AUG.								
14...	1140	12670	.10	--	.01	--	.11	--
28...	1015	11400	.13	.11	.00	.00	.13	.11
SEP.								
10...	1330	10040	.38	--	.00	.01	.38	.37
25...	1100	9640	.16	.16	.00	.00	.16	.16

DATE	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
MAY							
15...	.02	.20	.22	.51	2.3	.03	.00
29...	.10	.27	.37	.58	2.6	.08	--
JUNE							
12...	.05	.51	.56	.67	3.0	.00	--
26...	.04	.35	.39	.40	1.8	--	--
JULY							
10...	--	--	.41	.54	2.4	.02	--
24...	.05	.08	.13	.24	1.1	.02	--
AUG.							
14...	.06	.35	.41	.52	2.3	.03	.01
28...	.05	.36	.41	.54	2.4	.01	--
SEP.							
10...	.07	.16	.23	.61	2.7	.01	--
25...	.03	.30	.33	.49	2.2	.02	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	CHLOROPHYLL A (UG/L)	CHLOROPHYLL B (UG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT.						
17...	0925	7760	--	--	34	80
NOV.						
14...	0900	5640	--	--	45	--
DEC.						
18...	1120	--	--	--	16	--
JAN.						
16...	1100	2140	--	--	2	--
FEB.						
12...	1100	6880	--	--	8	--
MAR.						
26...	1415	11300	--	--	21	--
MAY						
15...	1140	10240	--	--	86	--
JUNE						
12...	1140	10560	6.70	.000	--	--
JULY						
10...	1140	13070	.100	6.40	--	--
AUG.						
14...	1200	12700	--	--	29	43
SEP.						
10...	1330	10040	1.10	1.90	17	60

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TEMPERATURE (DEG C)	TOTAL ALDRIN (UG/L)	TOTAL CHLORDANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)
OCT. 18...	1540	7400	23.5	.00	.0	.00	.00	.00
NOV. 14...	1435	5970	18.0	.00	.0	.00	.00	.00
DEC. 19...	1430	6480	12.5	.00	.0	.00	.00	.00
JAN. 18...	1700	2690	15.5	.00	.0	.00	.00	.00
FEB. 13...	1500	6830	12.5	.00	.0	.00	.00	.00
MAR. 27...	1400	11500	18.0	.00	.0	.00	.00	.00
MAY 15...	1140	10240	23.0	.00	.0	.00	.00	.00
AUG. 14...	1140	12670	27.5	.00	.0	.00	.00	.00

DATE	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)	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)
OCT. 18...	.00	.00	.00	--	.00	.00	.00	.00	.00
NOV. 14...	.00	.00	.00	--	.00	.00	.00	.00	.00
DEC. 19...	.00	.00	.00	--	.00	.00	.00	.00	.00
JAN. 18...	.00	.00	.00	--	.00	.00	.00	.00	.00
FEB. 13...	.00	.00	.00	--	.00	.00	.00	.00	.00
MAR. 27...	.00	.00	.00	--	.00	.00	.00	.00	.00
MAY 15...	.00	.00	.00	.00	.00	.00	.00	.00	.00
AUG. 14...	.00	.00	.00	--	.00	.00	.00	.00	.00

DATE	TOTAL METHYL TRITHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL PCB (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)
OCT. 18...	--	.00	.0	0	--	.00	.00	.00
NOV. 14...	--	.00	.0	0	--	.00	.00	.00
DEC. 19...	--	.00	.0	--	--	.00	.00	.00
JAN. 18...	--	.00	.0	0	--	.00	.00	.00
FEB. 13...	--	.00	.0	0	--	.00	.00	.00
MAR. 27...	--	.00	.0	0	--	.00	.00	.00
MAY 15...	.00	.00	.0	0	.00	.00	.00	.00
AUG. 14...	--	.00	.0	0	--	.00	.00	.00

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.--Continued

MINOR ELEMENTS AND OTHER CONSTITUENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL CALCIUM (CA) (MG/L)	TOTAL MAGNESIUM (MG) (MG/L)	TOTAL SODIUM (NA) (MG/L)
MAY										
15...	1140	10240	320	50	40	0	40	95	32	140
29...	1100	10360	230	--	--	--	--	--	--	--
JUNE										
12...	1140	10560	230	--	--	--	--	--	--	--
26...	1045	12140	360	--	--	--	--	--	--	--
JULY										
10...	1140	13070	240	--	--	--	--	--	--	--
24...	1105	10380	360	--	--	--	--	--	--	--
AUG.										
14...	1140	12670	290	140	20	20	0	--	--	--
28...	1015	11400	280	--	--	--	--	--	--	--
SEP.										
10...	1330	10040	220	--	--	--	--	--	--	--
25...	1100	9640	260	--	--	--	--	--	--	--

DATE	TOTAL POTASSIUM (K) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
MAY										
15...	5.1	--	9	--	8.0	23.0	4	8.4	9	4.3
29...	--	--	24	--	--	25.5	--	--	12	3.9
JUNE										
12...	--	--	1	1340	7.9	27.0	--	8.5	0	3.8
26...	--	--	5	--	--	29.5	--	--	4	4.9
JULY										
10...	--	850	5	1280	7.7	27.0	--	7.4	10	2.5
24...	--	--	2	--	--	30.0	--	--	9	--
AUG.										
14...	--	--	8	1260	7.8	27.5	--	7.6	10	5.9
28...	--	--	17	--	--	27.5	--	--	0	9.3
SEP.										
10...	--	--	9	1360	8.1	29.5	--	8.1	7	6.1
25...	--	--	1	--	--	27.0	--	--	5	3.0

DATE	OIL AND GREASE (MG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)
MAY										
15...	2	1	0	1	200	40	39	1	40	0
29...	--	--	--	--	190	--	--	--	--	--
JUNE										
12...	0	--	--	--	180	--	--	--	--	--
26...	--	--	--	--	180	--	--	--	--	--
JULY										
10...	0	--	--	--	180	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
AUG.										
14...	--	2	1	1	--	<10	<9	<1	0	0
28...	--	--	--	--	170	--	--	--	--	--
SEP.										
10...	--	--	--	--	190	--	--	--	--	--
25...	--	--	--	--	220	--	--	--	--	--

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.--Continued

MINOR ELEMENTS AND OTHER CONSTITUENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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 LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
MAY										
15...	40	<50	<48	2	10	5	5	<100	<74	26
29...	--	--	--	--	--	--	--	--	--	--
JUNE										
12...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
JULY										
10...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
AUG.										
14...	0	<50	<50	0	<10	<9	1	<100	<95	5
28...	--	--	--	--	--	--	--	--	--	--
SEP.										
10...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--

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)
MAY									
15...	--	--	.0	4	--	0	40	20	20
29...	--	--	--	--	--	--	--	--	--
JUNE									
12...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--
JULY									
10...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
AUG.									
14...	.1	.0	.1	2	1	1	50	20	30
28...	--	--	--	--	--	--	--	--	--
SEP.									
10...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)
JAN.							
02...	1100	--	--	960	19	13	1.1
JULY							
10...	1140	13070	27.0	850	34	12	.5

DATE	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED NATURAL URANIUM (U) (UG/L)
JAN.						
02...	11	1.9	9.1	1.7	.08	4.7
JULY						
10...	7.3	1.2	6.2	.9	.13	5.0

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1300	1370	1490	1430	1320	1300	1270	1270	1300	1230	1240	1290
2	1280	1370	1470	1420	1320	1320	1260	1290	1280	1270	1240	1280
3	1300	1410	1490	1410	1330	1310	1280	1310	1280	1260	1250	1260
4	1300	1450	1460	1400	1270	1310	1290	1310	1290	1250	1190	1260
5	1290	1460	1460	1400	1290	1310	1290	1310	1280	1280	1220	1260
6	1310	1460	1430	1440	1290	1290	1290	1300	1290	1280	1230	1280
7	1330	1450	1410	1400	1310	1280	1280	1300	1300	1240	1240	1290
8	1330	1390	1430	1380	1340	1280	1260	1280	1320	1250	1240	1290
9	1290	1380	1470	1440	1370	1310	1260	1290	1310	1250	1270	1270
10	1320	1400	1420	1470	1350	1300	1280	1320	1280	1260	1270	1270
11	1310	1410	1410	1510	1310	1290	1280	1330	1290	1260	1260	1260
12	1330	1410	1400	1600	1320	1340	1270	1310	1300	1260	1240	1260
13	1360	1390	1380	1650	1320	1310	1280	1290	1300	1270	1240	1280
14	1360	1390	1360	1730	1300	1290	1280	1280	1300	1240	1250	1290
15	1350	1380	1380	1820	1320	1310	1260	1300	1310	1250	1240	1260
16	1330	1380	1410	1840	1330	1330	1260	1310	1290	1230	1240	1270
17	1300	1400	1370	1830	1330	1320	1280	1320	1270	1230	1240	1260
18	1300	1450	1350	1760	1310	1280	1280	1340	1270	1240	1240	1260
19	1310	1400	1350	1660	1310	1270	1290	1330	1280	1250	1260	1280
20	1330	1350	1380	1670	1320	1270	1300	1300	1270	1280	1240	1310
21	1350	1350	1390	1630	1310	1260	1300	1300	1290	1290	1250	1270
22	1350	1390	1420	1600	1320	1270	1270	1300	1270	1270	1250	1270
23	1350	1410	1470	1510	1350	1280	1270	1310	1260	1270	1250	1270
24	1340	1450	1520	1460	1370	1250	1260	1320	1250	1280	1270	1300
25	1360	1470	1570	1450	1320	1240	1270	1330	1250	1310	1260	1290
26	1390	1450	1460	1450	1280	1260	1290	1330	1260	1300	1240	1290
27	1410	1450	1340	1440	1270	1260	1290	1300	1260	1290	1230	1310
28	1420	1500	1340	1340	1280	1260	1280	1320	1260	1280	1250	1320
29	1370	1520	1390	1300	---	1280	1270	1320	1270	1240	1260	1330
30	1370	1520	1420	1300	---	1290	1270	1310	1260	1240	1290	1340
31	1360	---	1430	1340	---	1300	---	1320	---	1230	1300	---
MONTH	1340	1420	1420	1520	1320	1290	1280	1310	1280	1260	1250	1280

09429600 COLORADO RIVER BELOW LAGUNA DAM, ARIZ.-CALIF.

LOCATION.--Lat 32°48'44", long 144°30'51", in SE¼NE¼ sec.35, T.15 S., R.23 E., San Bernardino meridian, in California, Imperial County, at gaging station on right bank, 1.4 mi (2.3 km) downstream from Laguna Dam, 2.8 mi (4.5 km) northeast of Bard, Calif., and 10 mi (16 km) northeast of Yuma, Ariz.

DRAINAGE AREA.--184,700 mi^2 (478,400 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: July 1972 to current year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
05...	1045	245	14	50	93	33	170	5.7	179	0	380	150
NOV.												
05...	0435	360	10	--	94	35	175	6.8	194	0	375	155
12...	0320	295	11	--	98	35	175	6.6	194	0	375	160
19...	0450	284	9.0	--	101	35	175	6.2	200	0	380	162
26...	0400	235	11	--	103	35	180	6.3	206	0	385	165
DEC.												
03...	0320	242	11	--	106	34	180	6.3	206	0	385	168
10...	0340	245	11	--	102	33	175	6.1	200	0	375	155
17...	0140	285	11	--	100	32	170	6.4	192	0	370	150
24...	1255	290	10	--	98	33	170	6.2	190	0	370	150
31...	0140	285	10	--	99	32	175	6.6	192	0	375	155
JAN.												
07...	0140	290	11	--	103	35	180	6.8	204	0	380	168
14...	0130	932	11	--	113	35	190	6.7	210	0	400	180
21...	0130	198	12	--	118	35	215	6.9	224	0	415	215
28...	0130	195	13	--	106	38	210	6.9	222	0	400	202
FEB.												
04...	0115	171	11	--	102	32	180	6.6	200	0	370	165
11...	0130	270	11	--	97	35	175	6.4	190	0	370	160
18...	0140	252	10	--	98	33	170	6.7	190	0	370	152
25...	0115	245	11	--	98	33	155	6.5	188	0	360	142
MAR.												
04...	0120	420	9.0	--	97	31	155	6.7	182	0	355	138
11...	0145	453	9.0	--	98	29	150	6.5	184	0	350	128
18...	0130	358	10	--	98	33	165	6.4	188	0	365	150
25...	0145	348	9.0	--	97	32	155	6.4	188	0	355	140
APR.												
01...	0130	429	9.0	--	95	31	150	6.4	188	0	350	130
08...	0250	358	9.0	--	97	31	150	6.7	186	0	350	132
15...	0125	355	10	--	100	31	155	6.6	190	0	355	140
22...	0130	489	8.0	--	97	30	150	7.1	184	0	350	128
29...	0210	525	6.0	--	94	32	150	6.5	184	0	350	128
MAY												
06...	0130	978	6.0	--	99	29	150	6.7	184	0	350	128
13...	0115	922	6.0	--	95	31	150	6.7	184	0	350	128
20...	0100	1040	6.0	--	97	32	145	6.7	184	0	355	128
27...	0115	1060	6.0	--	97	32	150	6.8	184	0	355	130
JUNE												
03...	0120	355	9.0	--	99	35	170	6.8	200	0	370	155
10...	0200	220	9.0	--	100	33	170	6.8	196	0	370	150
17...	0205	486	8.0	--	94	33	150	6.5	184	0	355	128
24...	0135	352	9.0	--	97	31	155	6.7	188	0	355	135
JULY												
01...	0200	332	9.0	--	94	32	145	7.0	182	0	350	125
08...	0115	358	7.0	--	94	32	145	7.0	180	0	350	125
15...	0100	510	8.0	--	90	34	150	7.2	176	0	355	128
22...	0100	322	8.0	--	95	32	155	6.6	182	0	355	138
29...	0115	358	8.0	--	93	32	155	7.0	180	0	355	135
AUG.												
05...	0130	363	9.0	--	89	30	130	6.2	166	0	330	110
12...	0140	372	10	--	94	34	155	7.0	184	0	360	140
19...	0110	360	8.0	--	89	34	145	6.3	176	0	350	125
26...	0110	390	7.0	--	94	34	155	6.7	184	0	360	138
SEP.												
02...	0300	278	9.0	--	95	34	160	6.7	186	0	365	140
09...	0110	876	9.0	--	94	31	145	6.7	178	0	350	125
16...	0115	890	8.0	--	92	31	140	6.9	180	0	340	120
23...	0155	890	8.0	--	92	31	140	6.7	180	0	340	120
30...	0140	315	11	--	98	34	170	6.7	196	0	370	152

09429600 COLORADO RIVER BELOW LAGUNA DAM, ARIZ.-CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (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)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
OCT.												
05...	.6	.09	928	935	1.27	370	220	3.9	1410	8.2	--	260
NOV.												
05...	.6	--	950	948	1.29	380	221	3.9	1490	8.1	18.0	--
12...	.6	--	962	958	1.31	390	231	3.9	1520	8.1	18.5	--
19...	.5	--	976	969	1.33	395	231	3.8	1530	8.1	16.0	--
26...	.5	--	986	989	1.34	400	231	3.9	1560	8.1	14.0	--
DEC.												
03...	.7	--	998	994	1.36	405	236	3.9	1570	8.1	14.0	--
10...	.5	--	1010	958	1.37	390	226	3.9	1520	8.0	10.0	--
17...	.5	--	944	936	1.28	380	222	3.8	1460	8.1	12.5	--
24...	.6	--	962	933	1.31	380	224	3.8	1470	8.0	12.5	--
31...	.6	--	974	949	1.32	380	222	3.9	1480	7.9	16.0	--
JAN.												
07...	.7	--	1010	986	1.37	400	232	3.9	1560	8.0	11.5	--
14...	.6	--	1050	1040	1.43	425	253	4.0	1640	8.0	11.0	--
21...	.6	--	1130	1130	1.54	440	256	4.5	1790	8.1	16.5	--
28...	.6	--	1070	1090	1.46	420	238	4.5	1710	7.9	12.5	--
FEB.												
04...	.7	--	962	967	1.31	385	221	4.0	1530	8.1	13.5	--
11...	.7	--	948	950	1.29	385	229	3.9	1490	8.0	13.0	--
18...	.7	--	930	935	1.26	380	224	3.8	1470	8.0	13.5	--
25...	.6	--	892	900	1.21	380	226	3.5	1420	8.0	12.0	--
MAR.												
04...	.6	--	860	883	1.17	370	221	3.5	1390	8.0	15.5	--
11...	.6	--	872	863	1.19	365	214	3.4	1350	8.0	13.0	--
18...	.6	--	926	922	1.26	380	226	3.7	1450	8.1	17.5	--
25...	.6	--	890	889	1.21	375	221	3.5	1400	8.0	20.0	--
APR.												
01...	.6	--	852	866	1.16	365	211	3.4	1360	8.0	18.5	--
08...	.6	--	850	869	1.16	370	218	3.4	1370	8.0	19.5	--
15...	.6	--	896	893	1.22	375	219	3.5	1410	7.9	20.0	--
22...	.6	--	868	863	1.18	365	214	3.4	1350	8.0	18.5	--
29...	.7	--	858	859	1.17	365	214	3.4	1340	8.0	21.0	--
MAY												
06...	.6	--	864	861	1.18	365	214	3.4	1350	7.9	23.0	--
13...	.6	--	856	859	1.16	365	214	3.4	1350	8.0	24.0	--
20...	.7	--	856	862	1.16	375	224	3.3	1350	8.0	21.0	--
27...	.6	--	876	870	1.19	375	224	3.4	1370	8.1	26.5	--
JUNE												
03...	.8	--	956	946	1.30	390	226	3.7	1480	--	23.0	--
10...	.7	--	942	938	1.28	385	224	3.8	1470	--	25.0	--
17...	.7	--	866	867	1.18	370	219	3.4	1350	--	28.5	--
24...	.7	--	882	883	1.20	370	216	3.5	1380	--	25.5	--
JULY												
01...	.7	--	850	854	1.16	365	216	3.3	1340	--	26.5	--
08...	.6	--	854	851	1.16	365	218	3.3	1340	--	29.0	--
15...	.7	--	866	861	1.18	365	220	3.4	1350	--	28.0	--
22...	.7	--	886	881	1.20	370	221	3.5	1390	--	26.5	--
29...	.7	--	884	876	1.20	365	218	3.5	1380	--	30.0	--
AUG.												
05...	.5	--	788	788	1.07	345	209	3.0	1240	--	--	--
12...	.6	--	890	893	1.21	375	224	3.5	1400	--	28.0	--
19...	.6	--	856	846	1.16	360	216	3.3	1330	--	29.0	--
26...	.7	--	912	887	1.24	375	224	3.5	1400	--	29.0	--
SEP.												
02...	.8	--	908	904	1.23	375	222	3.6	1430	--	28.0	--
09...	.7	--	856	850	1.16	360	214	3.3	1330	--	29.5	--
16...	.6	--	834	828	1.13	355	208	3.2	1300	--	25.5	--
23...	.5	--	834	828	1.13	355	208	3.2	1310	--	26.0	--
30...	.6	--	964	940	1.31	385	224	3.8	1470	--	26.5	--

09522500 GILA GRAVITY MAIN CANAL AT IMPERIAL DAM, ARIZ.-CALIF.

LOCATION.--Lat 32°52'34", long 114°27'18", in SE¼SW¼ sec.30, T.6 S., R.21 W., Gila and Salt River meridian in Arizona, Yuma County, at gaging station on right bank, 0.6 mi (1.0 km) downstream from intake at east end of Imperial Dam.

PERIOD OF RECORD.--Chemical analyses: October 1967 to current year (partial-record station).
Water temperatures: January 1956 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 30.5°C on several days during June to August; minimum, 10.0°C on several days during January and February.
Period of record:
Water temperatures: Maximum, 33.0°C Aug. 29-31, 1970; minimum, 7.0°C on several days in 1964 and 1971.

REMARKS.--Temperature probe above water surface Nov. 24-30, Dec. 24, 25. Unpublished chemical analyses (partial-record) for water years 1965-67 available from district office in Tucson, Ariz.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.												
03...	1155	1260	9.6	10	89	32	140	5.5	163	0	340	120
JAN.												
02...	1130	986	11	10	99	35	150	5.3	184	0	360	140
APR.												
03...	1215	1700	9.6	10	92	32	140	5.1	174	0	330	120
JULY												
03...	1300	2140	9.1	10	90	31	130	6.1	172	0	320	110

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED BORON (B) (UG/L)
OCT.												
03...	.5	.03	834	817	1.13	350	220	3.2	1270	8.1	23.5	200
JAN.												
02...	.5	.31	924	893	1.26	390	240	3.3	1400	8.2	9.5	190
APR.												
03...	.5	.18	848	816	1.15	360	220	3.2	1300	8.2	17.5	170
JULY												
03...	.4	.10	838	782	1.14	350	210	3.0	1270	8.0	28.0	180

09522500 GILA GRAVITY MAIN CANAL AT IMPERIAL DAM, ARIZ.-CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.5	24.5	16.5	16.5	13.0	12.0	10.5	10.5	12.0	11.5	16.0	15.5
2	24.5	24.5	16.5	16.5	13.0	13.0	10.5	10.0	12.0	12.0	16.5	16.0
3	24.5	24.0	16.5	16.5	13.0	13.0	10.5	10.0	11.5	11.5	16.0	16.0
4	24.0	23.5	16.5	16.5	12.5	12.0	10.0	10.0	11.0	11.0	15.5	15.0
5	23.5	23.5	16.5	16.0	12.0	12.0	10.0	10.0	10.5	10.5	15.0	14.0
6	23.5	23.5	16.0	16.0	12.0	12.0	10.5	10.5	10.0	10.0	14.0	14.0
7	23.5	23.5	16.0	16.0	12.0	12.0	10.5	10.5	10.0	10.0	14.0	14.0
8	23.5	23.5	16.5	16.0	12.0	12.0	11.0	11.0	10.0	10.0	14.5	14.5
9	23.5	23.0	16.5	16.5	12.0	12.0	11.5	11.0	11.0	10.0	14.5	14.5
10	23.5	22.0	16.5	16.5	13.0	13.0	12.0	11.5	10.5	10.5	15.0	14.5
11	22.0	21.5	17.0	16.5	13.0	13.0	12.0	12.0	10.5	10.5	15.5	15.5
12	21.5	21.5	18.0	17.0	13.0	13.0	13.0	12.0	11.0	10.5	16.0	15.5
13	21.5	21.5	18.0	18.0	13.0	13.0	13.0	13.0	12.0	11.5	17.0	16.0
14	22.0	22.0	18.0	16.5	13.5	13.0	13.5	13.0	12.5	12.0	17.5	17.0
15	23.0	22.0	16.5	16.5	13.5	13.5	13.5	13.5	13.0	13.0	18.0	17.5
16	23.5	23.0	16.5	16.0	13.5	13.5	14.0	13.5	13.5	13.0	19.0	18.0
17	24.0	23.5	16.0	15.5	13.5	13.5	14.5	14.0	13.5	13.5	19.0	19.0
18	24.0	23.5	15.5	15.5	13.5	13.5	15.0	14.5	14.0	14.0	19.0	19.0
19	24.0	23.5	15.0	14.5	14.0	13.5	15.5	15.0	14.0	14.0	19.0	19.0
20	23.5	23.5	14.5	14.0	13.5	13.5	15.5	15.5	14.5	14.0	19.0	19.0
21	23.5	23.5	14.0	13.5	13.5	13.5	15.5	15.5	14.0	13.0	19.0	19.0
22	23.0	22.0	13.5	13.5	13.5	13.0	15.5	14.0	14.0	14.0	19.0	18.0
23	22.0	22.0	13.5	13.5	13.0	13.0	14.0	13.0	14.0	14.0	18.0	18.0
24	22.0	21.0	---	---	---	---	13.0	11.5	14.0	14.0	18.0	18.0
25	21.5	20.5	---	---	---	---	11.5	11.5	14.5	14.5	18.0	18.0
26	20.5	20.5	---	---	11.0	11.0	11.5	11.5	14.5	14.5	18.5	18.0
27	20.0	19.5	---	---	11.0	11.0	11.5	11.5	15.0	14.5	18.5	18.0
28	19.0	19.0	---	---	11.0	10.5	11.5	11.5	15.0	15.0	18.5	18.0
29	19.0	18.5	---	---	11.5	11.0	11.5	11.5	---	---	19.0	18.0
30	18.5	17.5	---	---	11.5	11.0	11.5	11.5	---	---	19.0	19.0
31	17.0	16.5	---	---	11.0	11.0	11.5	11.5	---	---	19.0	19.0
MONTH	24.5	16.5	---	---	14.0	10.5	15.5	10.0	15.0	10.0	19.0	14.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	19.0	22.0	21.5	25.0	24.0	30.0	28.5	29.5	29.0	28.5	28.0
2	19.0	18.5	23.0	22.0	25.0	24.5	28.5	28.0	30.0	29.0	28.5	28.5
3	18.5	18.5	23.0	22.0	26.0	25.0	28.5	28.0	30.0	30.0	28.5	28.0
4	18.5	18.5	23.0	22.0	26.0	26.0	28.5	28.0	30.0	29.0	29.0	28.5
5	18.5	18.5	23.0	22.0	26.0	26.0	29.0	28.5	30.5	30.0	29.0	28.5
6	19.0	18.5	23.0	22.0	26.0	26.0	29.0	28.5	30.5	30.0	29.5	29.0
7	19.5	19.0	23.0	22.0	26.0	26.0	28.5	28.0	30.5	30.0	29.5	29.0
8	20.0	19.5	23.0	23.0	26.0	25.5	28.5	28.0	30.0	29.5	29.5	29.5
9	20.0	19.5	23.5	23.0	26.0	25.5	28.5	27.0	29.5	29.0	29.5	29.5
10	19.5	18.5	24.0	23.0	26.5	26.0	28.5	27.0	29.5	28.5	29.5	29.0
11	19.0	18.5	24.5	24.0	27.0	26.5	27.0	26.5	29.0	28.5	29.0	28.5
12	19.0	18.5	24.5	24.0	28.5	27.0	28.0	26.5	29.0	28.5	28.5	27.0
13	19.0	18.5	24.5	24.0	29.0	28.0	28.0	27.0	28.5	28.0	27.0	27.0
14	19.5	19.0	24.0	23.5	29.0	28.0	27.0	27.0	28.0	27.0	27.0	26.5
15	19.5	19.0	24.0	23.5	29.5	28.5	28.5	27.0	28.0	27.0	26.5	26.0
16	20.0	19.5	24.0	23.5	29.5	29.0	29.0	28.0	28.5	27.0	26.5	26.5
17	20.5	19.0	24.0	23.5	29.5	29.0	29.5	28.5	28.5	28.0	26.5	26.0
18	20.5	20.0	23.5	23.0	29.0	28.5	29.5	29.0	28.5	28.0	26.5	26.0
19	20.5	20.0	23.0	21.5	29.0	28.5	29.0	28.5	28.5	28.0	26.0	26.0
20	20.5	20.0	21.5	21.0	29.0	28.5	29.5	28.5	28.0	27.0	26.5	26.0
21	20.5	20.0	22.0	21.0	29.0	28.5	29.5	29.0	28.0	27.0	26.5	26.0
22	20.5	20.0	23.5	22.0	29.0	29.0	29.5	29.0	28.0	27.0	26.5	26.0
23	21.0	20.5	24.0	23.0	29.5	29.0	30.0	29.0	27.0	27.0	26.0	26.0
24	21.0	21.0	25.0	24.0	29.5	29.0	30.5	30.0	28.0	27.0	26.5	26.0
25	21.0	21.0	26.0	25.0	29.5	29.0	30.5	30.0	28.5	28.0	27.0	26.5
26	21.0	21.0	27.0	26.0	30.0	29.5	30.5	30.0	28.5	28.0	28.0	27.0
27	21.0	21.0	27.0	26.5	30.5	29.5	30.5	30.0	28.0	28.0	27.0	26.5
28	21.5	21.0	27.0	26.5	30.5	29.5	30.5	30.0	28.5	28.0	27.0	26.5
29	21.5	21.5	26.5	26.0	30.0	29.5	30.0	29.5	28.0	28.0	28.0	26.5
30	22.0	21.5	26.0	25.0	30.0	29.0	29.5	29.0	28.0	28.0	28.0	26.5
31	---	---	25.0	24.0	---	---	29.5	29.0	28.5	28.0	---	---
MONTH	22.0	18.5	27.0	21.0	30.5	24.0	30.5	26.5	30.5	27.0	29.5	26.0

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CALIF.
(National stream-quality-accounting network station)

LOCATION.--Lat 32°39'57", long 115°30'08", in NE¼SW¼SE¼ sec.14, T.17 S., R.14 E., Imperial County, at gaging station at Second Street bridge, 0.2 mi (0.3 km) downstream from international boundary, and 0.2 mi (0.3 km) west of Calexico.

PERIOD OF RECORD.--Chemical analyses: August 1969 to July 1971, February 1973 to current year.
Specific conductance: October 1973 to September 1974.
Water temperatures: October 1973 to September 1974.

EXTREMES.--Current year:
Specific conductance: Maximum recorded, 7,460 micromhos Oct. 15; minimum recorded, 4,930 micromhos Dec. 14.
Water temperatures: Maximum recorded, 35.0°C July 26; minimum recorded, 16.0°C Apr. 10.
Period of record:
Specific conductance: Maximum recorded, 7,460 micromhos Oct. 15, 1973; minimum recorded, 4,930 micromhos Dec. 14, 1973.
Water temperatures: Maximum recorded, 35.0°C July 26, 1974; minimum recorded, 16.0°C Apr. 10, 1974.

REMARKS.--Periods of missing conductivity and temperature data due to equipment malfunction.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV.												
07...	1500	146	20	850	50	100	80	210	110	890	41	326
DEC.												
19...	1200	166	19	--	--	--	--	220	100	960	66	294
JAN.												
24...	1350	177	17	--	--	--	--	240	110	940	43	307
APR.												
17...	1500	196	19	--	--	--	--	250	120	1000	--	275
JULY												
24...	1800	141	22	590	60	120	80	240	120	1000	51	253
AUG.												
14...	1330	147	23	1800	830	180	100	230	120	980	43	276
SEP.												
17...	1550	137	24	--	--	--	--	240	--	970	53	252

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)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
NOV.												
07...	0	267	710	1400	1.3	.08	4.7	4.8	21	1.6	3720	3540
DEC.												
19...	0	241	710	1600	.7	--	--	--	--	--	3860	3820
JAN.												
24...	0	252	730	1500	.8	.71	7.6	8.3	37	2.1	3920	3730
APR.												
17...	0	226	820	1700	.9	1.3	5.0	6.3	28	1.2	4280	4050
JULY												
24...	--	208	900	1600	.6	.29	2.5	2.8	12	1.1	4210	4060
AUG.												
14...	--	226	740	1600	.6	.28	6.6	6.9	30	1.1	4190	3870
SEP.												
17...	--	207	730	1500	.9	.46	6.6	7.1	31	1.4	4200	3680

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	FECAL COLI-FORM (COL. PER 100 ML)
NOV. 07...	5.06	1470	980	65	12	5410	7.7	21.0	30	96000	2000000
DEC. 19...	5.25	1730	960	67	13	6280	8.0	14.5	--	--	1200000
JAN. 24...	5.33	1870	1100	65	13	5740	8.1	15.0	200	--	700000
APR. 17...	5.82	2270	1100	66	13	6900	7.3	25.0	20	53000	530000
JULY 24...	5.73	1600	1100	65	13	6740	7.8	34.0	5	180000	2100000
AUG. 14...	5.70	1660	1100	66	13	6600	7.6	32.0	20	190000	4500000
SEP. 17...	5.71	1550	740	72	16	6560	7.9	29.2	2	140000	2900000

DATE	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL 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)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
NOV. 07...	250000	22	11	6	10	1	0	0	50	4	30
DEC. 19...	570000	--	--	--	--	--	--	--	--	--	--
JAN. 24...	390000	--	--	--	--	--	--	--	--	--	--
APR. 17...	86000	--	--	--	--	--	--	--	--	--	--
JULY 24...	188000	--	12	13	10	1	0	0	0	0	10
AUG. 14...	240000	20	16	10	<10	1	30	0	<50	0	150
SEP. 17...	220000	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
NOV. 07...	10	100	2	.3	.0	8	6	70	40	108	43
DEC. 19...	--	--	--	--	--	--	--	--	--	120	54
JAN. 24...	--	--	--	--	--	--	--	--	--	--	--
APR. 17...	--	--	--	--	--	--	--	--	--	--	--
JULY 24...	9	<100	6	.0	.0	1	0	50	40	--	--
AUG. 14...	5	<100	2	.1	.1	3	2	50	40	--	--
SEP. 17...	--	--	--	--	--	--	--	--	--	--	--

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
NOV. 07...	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	..Oscillatoriales			
	...Oscillatoriaceae			
	....*Lyngbya*		38,000	40
	....*Oscillatoria*		16,000	17
	TOTAL PHYTOPLANKTON		96,000	
MAR. 13...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	..Chlorococcales			
	...Occystaceae			
	....*Chlorella*			19
	..Ulotrichales			
	...Chaetophoraceae			
	....*Stigeoclonium*		13,000	64
	TOTAL PHYTOPLANKTON		20,574	
APR. 17...	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	..Oscillatoriales			
	...Oscillatoriaceae			
	....*Lyngbya*		30,000	57
	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	..Chlorococcales			
	...Scenedesmaceae			
	....*Scenedesmus*		9,100	17
	TOTAL PHYTOPLANKTON		53,278	
JULY 24...	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	..Chroococcales			
	...Chroococcaceae			
	....*Agmenellum*		61,000	34
	..Oscillatoriales			
	...Oscillatoriaceae			
	....*Oscillatoria*		90,000	50
	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	..Centrales			
	...Coscinodiscaceae			
	....*Cyclotella*		14,000	8
	..Pennales			
	...Cymbellaceae			
	....*Cymbella*			0
	...Fragilariaceae			
	....*Synedra*			0
	...Naviculaceae			
	....*Navicula*			0
	...Nitzschiaceae			
	....*Nitzschia*		1,800	1
	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	..Chlorococcales			
	...Occystaceae			
	....*Ankistrodesmus*			0
	...Scenedesmaceae			
	....*Scenedesmus*		11,000	6
	TOTAL PHYTOPLANKTON		180,000	

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
AUG. 14...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	..Chlorococcales			
	...Occystaceae			
	....*Ankistrodesmus*			0
	...Scenedesmaceae			
	....*Scenedesmus*		1,900	1
	..Volvocales			
	...Volvocaceae			
	....*Pandorina*		1,900	1
	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	..Centrales			
	...Coscinodiscaceae			
	....*Cyclotella*		5,700	3
	..Pennales			
	...Achnanthaceae			
	....*Cocconeis*			0
	...Nitzschiaceae			
	....*Nitzschia*		23,000	12
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	..Chroococcales			
	...Chroococcaceae			
	....*Agmenellum*		27,000	14
	....*Anacystis*		19,000	10
	..Oscillatoriales			
	...Oscillatoriaceae			
	....*Lyngbya*		42,000	22
	....*Oscillatoria*		68,000	36
	TOTAL PHYTOPLANKTON		190,000	
SEP. 17...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	..Chlorococcales			
	...Occystaceae			
	....*Kirchneriella*			0
	...Scenedesmaceae			
	....*Scenedesmus*		7,000	5
	..Volvocales			
	...Chlamydomonadaceae			
	....*Chlamydomonas*			0
	..Tetrasporales			
	...Palmellaceae			
	....*Gloecystis*		2,800	2
	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	..Centrales			
	...Coscinodiscaceae			
	....*Cyclotella*		1,400	1
	..Pennales			
	...Fragilariaceae			
	....*Synedra*		1,400	1
	...Nitzschiaceae			
	....*Nitzschia*		2,800	2
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	..Chroococcales			
	...Chroococcaceae			
	....*Agmenellum*		34,000	24
	..Oscillatoriales			
	...Oscillatoriaceae			
	....*Lyngbya*		22,000	16
	....*Oscillatoria*		70,000	50
	TOTAL PHYTOPLANKTON		140,000	

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7060	6570	6870	---	---	---	5840	5420	5700			
2	6780	6280	6540	---	---	---	6080	5360	5890			
3	6680	6300	6500	---	---	---	6470	5920	6120			
4	6830	6190	6500	---	---	---	---	---	---			
5	6950	5940	6420	---	---	---	---	---	---			
6	6280	5830	6090	---	---	---	---	---	---			
7	6660	6020	6370	---	---	---	6060	5260	5540			
8	6780	6210	6490	---	---	---	5630	5280	5410			
9	6230	6020	6120	---	---	---	5630	5200	5400			
10	6360	5560	6220	---	---	---	5520	5150	5330			
11	6380	6150	6260	6490	6110	6350	5730	5300	5490			
12	6680	6150	6400	6470	6110	6280	5730	5460	5580			
13	6260	5700	5960	6590	6150	6320	5950	5670	5790			
14	7210	5830	6110	6830	6260	6530	6160	4930	5830			
15	7460	6810	7140	6780	6190	6220	6360	6190	6090			
16	6970	6300	6640	---	---	---	6430	6050	6200			
17	6550	6210	6380	---	---	---	6470	6010	6150			
18	6510	6170	6360	---	---	---	6600	5670	6060			
19	6090	5270	5700	6430	6290	6350	6780	6290	6580			
20	5790	5560	5680	6840	6170	6400	6730	6230	6400			
21	5960	5680	5790	6910	5110	6100	6860	6320	6610			
22	5900	5560	5730	6140	5150	5650	6770	6100	6410			
23	5940	5540	5730	6160	5900	5990	6450	6080	6200			
24	7140	5750	6850	6540	5970	6220	6580	6140	6370			
25	6890	6260	6400	6530	5440	5960	6650	6210	6380			
26	---	---	---	5920	5420	5610	6580	5970	6320			
27	---	---	---	5930	5280	5660	---	---	---			
28	---	---	---	6030	5300	5820	---	---	---			
29	---	---	---	6160	5670	5860	---	---	---			
30	---	---	---	5900	5500	5700	---	---	---			
31	---	---	---	---	---	---	---	---	---			
MONTH	7460	5270	6290	---	---	---	---	---	---			

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	---	---	---
2							---	---	---	---	---	---
3							---	---	---	---	---	---
4							---	---	---	---	---	---
5							---	---	---	---	---	---
6							---	---	---	6250	6050	6150
7							---	---	---	6410	6100	6240
8							---	---	---	6360	6140	6230
9							---	---	---	6540	6250	6380
10							---	---	---	6730	6410	6500
11							---	---	---	6670	6450	6550
12							---	---	---	6730	6540	6670
13							---	---	---	---	---	---
14							---	---	---	---	---	---
15							---	---	---	---	---	---
16							---	---	---	---	---	---
17							---	---	---	---	---	---
18							---	---	---	---	---	---
19							7080	6970	7020	---	---	---
20							7080	6840	6920	---	---	---
21							7020	6860	6910	---	---	---
22							6970	6730	6850	---	---	---
23							6930	6100	6700	6950	6340	6550
24							6360	6290	6320	7230	6950	7060
25							6430	6250	6340	7360	6970	7130
26							6470	6210	6330	7230	6620	7000
27							6670	6030	6330	6840	5820	6520
28							6160	5900	6000	---	---	---
29							6230	5930	6060	---	---	---
30							6290	6050	6180	---	---	---
31							---	---	---	6250	5970	6140
MONTH							---	---	---	---	---	---

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6100	5690	5930	---	---	---	6340	6080	6210	---	---	---
2	---	---	---	---	---	---	6430	6070	6260	---	---	---
3	---	---	---	---	---	---	6390	6060	6190	---	---	---
4	---	---	---	---	---	---	6450	6140	6290	---	---	---
5	---	---	---	---	---	---	6600	6120	6410	---	---	---
6	---	---	---	---	---	---	6630	6350	6480	5850	5660	5760
7	6080	5670	5890	---	---	---	6560	6280	6430	6090	5740	5920
8	5820	5360	5600	---	---	---	6630	6260	6450	5960	5650	5800
9	5990	5240	5510	---	---	---	6650	6250	6310	6030	5720	5890
10	5900	5520	5740	---	---	---	6460	6000	6280	6580	6040	6290
11	5990	5610	5840	---	---	---	6180	5940	6080	6640	6060	6360
12	---	---	---	---	---	---	6650	5980	6260	6680	6150	6350
13	7360	6880	7130	---	---	---	6680	6450	6600	6420	6020	6270
14	7360	6930	7110	---	---	---	6840	6530	6740	6590	5970	6230
15	7240	6970	7080	---	---	---	6680	6300	6540	6540	6220	6380
16	7360	6860	7100	---	---	---	6680	6300	6480	6730	6340	6540
17	7080	6710	6920	---	---	---	6540	5040	5620	6560	6430	6510
18	---	---	---	---	---	---	5950	5700	5820	---	---	---
19	---	---	---	---	---	---	5990	5730	5870	---	---	---
20	---	---	---	---	---	---	6120	5700	5940	---	---	---
21	7040	6650	6870	---	---	---	5900	5500	5780	---	---	---
22	7210	6650	6900	---	---	---	5770	5150	5390	---	---	---
23	6910	6380	6690	---	---	---	5450	5220	5360	---	---	---
24	6470	6250	6340	6740	6690	6700	5600	5290	5460	---	---	---
25	---	---	---	6840	6560	6710	6040	5480	5720	---	---	---
26	---	---	---	6700	6130	6400	5960	5630	5780	---	---	---
27	---	---	---	6410	6160	6280	6080	5600	5880	---	---	---
28	---	---	---	6420	6070	6270	5990	5710	5890	---	---	---
29	---	---	---	6340	5970	6120	6160	5480	5940	---	---	---
30	---	---	---	6370	5950	6180	5970	5680	5840	---	---	---
31	---	---	---	6180	5980	6130	5920	5530	5740	---	---	---
MONTH	---	---	---	---	---	---	6840	5040	6070	---	---	---

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	27.5	23.5									---	---
2	27.0	23.0									---	---
3	27.0	22.5									---	---
4	26.0	21.5									---	---
5	26.5	21.5									---	---
6	27.5	21.5									---	---
7	26.0	20.5									---	---
8	24.5	20.5									---	---
9	23.5	18.5									---	---
10	23.0	19.0									---	---
11	22.0	18.5									---	---
12	21.5	17.5									---	---
13	23.5	19.5									21.5	19.5
14	24.0	19.5									22.0	18.0
15	24.5	20.0									23.0	19.0
16	24.5	21.0									23.5	20.5
17	25.0	21.0									24.5	21.0
18	25.5	22.0									24.0	21.5
19	25.5	21.0									23.0	19.5
20	26.5	22.5									24.5	21.0
21	26.0	21.5									24.0	20.0
22	24.5	22.5									24.5	21.0
23	23.5	20.5									23.5	20.0
24	---	---									23.5	19.0
25	---	---									24.0	20.0
26	---	---									24.0	20.0
27	---	---									23.0	19.0
28	---	---									23.5	18.5
29	---	---									24.5	20.0
30	---	---									24.0	20.0
31	---	---									23.5	19.0
MONTH	---	---									---	---

10254970 NEW RIVER AT INTERNATIONAL BOUNDARY, AT CALEXICO, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	23.0	19.0	26.0	21.5	28.0	23.5	---	---	33.5	30.5	32.5	28.5
2	21.0	18.5	27.0	22.5	29.0	25.0	---	---	32.5	30.5	33.0	29.0
3	22.0	17.5	26.5	23.0	30.0	25.0	---	---	33.0	30.5	33.0	29.0
4	22.0	16.5	26.5	22.5	30.0	25.5	---	---	32.5	30.5	33.0	29.0
5	23.0	17.0	26.0	20.5	28.5	25.5	---	---	33.5	30.0	32.0	29.0
6	24.0	18.5	26.5	21.5	30.5	24.5	---	---	34.5	31.0	33.0	30.0
7	24.5	19.0	28.5	23.5	31.0	26.5	---	---	34.5	31.0	31.5	28.0
8	25.5	20.0	28.0	24.0	30.0	26.0	---	---	33.5	29.0	32.0	28.5
9	23.5	17.5	29.0	24.0	29.5	25.5	---	---	34.0	28.5	32.5	29.0
10	20.5	16.0	29.0	24.5	31.0	25.5	---	---	34.5	30.5	33.0	29.0
11	21.5	17.0	29.0	23.5	31.0	26.0	---	---	34.0	30.5	32.0	28.5
12	22.5	16.5	27.0	26.0	32.0	27.0	---	---	34.0	30.0	31.5	27.5
13	23.0	19.0	---	---	32.0	27.5	---	---	34.0	30.5	32.0	28.0
14	23.0	18.5	---	---	32.0	28.0	---	---	33.5	29.5	32.5	27.5
15	24.0	18.0	---	---	30.0	27.0	---	---	34.0	30.0	30.5	27.0
16	25.0	19.0	---	---	30.0	25.0	---	---	34.0	29.0	29.0	24.5
17	25.0	20.5	26.0	23.0	30.0	26.0	---	---	34.0	30.0	---	---
18	25.5	22.5	---	---	31.0	27.0	---	---	33.0	28.5	---	---
19	23.5	19.0	23.0	17.5	28.0	24.5	---	---	33.5	29.5	---	---
20	24.5	20.0	24.0	18.5	28.5	24.5	---	---	32.5	28.0	---	---
21	24.5	19.5	25.5	18.5	29.5	26.0	---	---	32.5	27.5	---	---
22	25.5	21.0	27.0	20.5	30.5	26.5	---	---	33.0	27.5	---	---
23	26.0	22.5	26.0	22.5	31.5	28.5	---	---	33.5	29.0	---	---
24	24.5	21.5	26.5	20.5	31.0	30.0	---	---	33.0	28.5	---	---
25	25.0	21.0	29.5	22.5	32.0	30.0	34.5	32.0	33.5	28.0	---	---
26	23.5	19.0	30.5	24.5	---	---	35.0	31.0	31.5	28.0	---	---
27	25.0	19.5	30.5	27.0	---	---	34.5	32.0	31.0	26.0	---	---
28	25.5	20.0	30.0	25.0	---	---	34.0	32.0	30.5	26.0	---	---
29	25.5	21.0	29.5	24.5	34.0	30.0	34.0	31.0	30.5	26.5	---	---
30	26.0	21.0	27.0	23.5	---	---	33.0	30.5	30.5	27.0	---	---
31	---	---	27.0	23.5	---	---	33.0	30.0	32.0	28.0	---	---
MONTH	26.0	16.0	30.5	17.5	34.0	23.5	---	---	34.5	26.0	---	---

10263500 BIG ROCK CREEK NEAR VALYERMO, CALIF.

LOCATION.--Lat 34°25'15", long 117°50'19", in NW¼SE¼NE¼ sec.20, T.4 N., R.9 W., Los Angeles County, temperature recorder at gaging station on left bank, 0.1 mi (0.2 km) upstream from Punchbowl Canyon, and 1.9 mi (3.1 km) southeast of Valyermo.

DRAINAGE AREA.--22.9 mi^2 (59.3 km^2).

PERIOD OF RECORD.--Water temperatures: January 1962 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum recorded, 22.0°C July 25; minimum, 0.5°C Jan. 4.
Period of record:
Water temperatures: Maximum, 24.0°C Aug. 19, 26, 1970, July 15, 31, 1972; minimum, 0.5°C Jan. 4, 1974.

REMARKS.--No record available Aug. 17, 20, 27, Sept. 20, temperature probe covered with silt.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	12.5	15.0	11.5	11.0	9.0	10.0	7.5	12.0	8.0	14.0	8.5
2	18.5	12.0	15.5	11.5	11.5	8.5	9.0	6.0	11.5	7.5	9.5	7.0
3	17.5	11.5	15.0	11.0	11.5	8.0	8.0	5.5	11.5	7.5	10.0	6.0
4	17.5	12.0	14.0	10.0	11.5	8.5	6.5	0.5	12.0	7.5	11.0	6.0
5	18.5	12.5	14.5	10.5	11.5	8.5	7.5	3.5	11.5	7.5	12.5	6.5
6	18.0	12.5	15.5	11.0	12.0	8.0	9.5	6.0	10.5	7.0	13.0	7.5
7	18.0	12.0	16.5	12.0	12.0	8.5	8.5	3.0	11.5	7.0	10.0	7.0
8	17.5	13.0	16.0	11.5	12.0	8.5	9.0	4.5	11.5	7.5	8.0	6.0
9	17.0	12.0	15.5	11.0	12.0	8.5	10.5	6.5	11.5	7.5	12.0	7.0
10	16.5	11.5	16.0	12.0	12.0	8.5	10.0	6.0	12.5	7.5	13.0	7.0
11	17.0	11.5	16.0	12.5	11.5	8.5	10.0	6.0	12.5	8.5	13.5	7.5
12	17.5	12.0	15.5	11.5	12.5	8.5	11.0	7.5	12.0	8.0	14.0	8.0
13	18.0	13.0	14.0	10.5	12.5	9.0	11.0	7.0	12.0	8.0	13.5	8.0
14	18.5	13.0	14.0	10.5	12.0	9.0	11.0	6.5	12.5	7.5	14.0	8.0
15	18.5	13.0	13.5	9.5	11.5	8.5	11.5	7.5	13.0	8.5	14.0	8.5
16	16.5	13.0	14.0	10.0	12.0	8.5	11.0	7.5	13.0	8.5	13.5	8.5
17	17.0	12.0	14.5	11.0	13.0	9.0	9.5	7.0	12.0	8.0	13.0	9.5
18	17.0	12.5	13.5	10.0	11.5	8.0	10.5	7.0	13.5	8.0	12.0	9.0
19	17.0	12.5	13.0	7.5	11.5	8.0	10.0	7.5	12.0	8.0	12.5	9.0
20	17.0	12.5	13.5	9.5	11.0	7.5	10.0	7.5	12.5	7.5	12.5	9.0
21	16.5	11.5	12.5	10.0	11.0	7.5	8.0	7.0	13.0	7.5	13.5	8.0
22	16.0	11.5	12.5	9.5	11.0	8.0	8.5	6.0	14.0	8.0	13.5	7.5
23	16.0	11.5	11.5	9.5	11.0	8.0	9.5	6.5	13.0	8.0	13.5	7.5
24	15.5	11.0	13.0	8.5	10.5	8.0	10.0	7.0	13.0	7.5	14.0	8.0
25	15.5	11.0	12.5	8.5	11.5	8.0	10.5	7.0	13.5	7.5	13.0	8.0
26	15.0	11.0	12.0	9.0	11.5	8.0	10.5	7.0	14.0	8.0	14.5	9.0
27	15.5	11.0	12.0	8.5	12.0	9.0	10.5	6.5	14.5	8.5	14.0	9.0
28	16.0	11.0	12.5	9.0	13.5	10.0	11.0	7.5	13.0	8.5	15.0	9.0
29	15.0	11.0	12.5	9.0	12.5	9.5	11.0	7.0	---	---	15.0	9.0
30	15.0	11.0	12.0	9.0	11.5	8.5	11.5	7.5	---	---	13.0	8.5
31	16.0	11.5	---	---	11.5	8.0	12.0	7.5	---	---	14.0	8.0
MONTH	18.5	11.0	16.5	7.5	13.5	7.5	12.0	0.5	14.5	7.0	15.0	6.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	8.0	17.0	9.5	17.5	10.5	21.0	13.0	20.5	14.5	21.0	13.0
2	14.0	8.0	17.5	9.5	19.0	10.5	21.0	12.5	20.0	14.5	20.5	14.0
3	13.5	7.0	17.0	9.0	19.5	11.0	21.0	12.5	19.0	14.0	20.0	14.5
4	14.5	7.5	13.5	9.0	20.0	11.0	21.0	12.5	19.0	14.5	20.5	14.5
5	15.0	7.5	16.0	9.5	19.5	11.5	20.5	12.5	20.5	14.0	20.5	15.0
6	15.5	8.0	17.0	10.0	20.0	12.0	21.0	13.0	21.5	14.0	20.0	15.0
7	15.5	8.0	17.5	10.0	20.0	11.5	20.5	12.5	21.5	13.5	19.5	14.0
8	16.0	8.5	18.0	10.5	19.0	11.5	20.5	12.0	21.5	13.0	21.0	14.0
9	13.0	7.5	17.5	10.5	19.5	10.5	20.5	12.5	21.5	13.0	21.0	13.5
10	14.0	8.0	18.0	10.5	20.0	11.5	20.5	12.5	21.5	13.0	20.5	13.5
11	15.0	7.5	18.5	10.0	20.5	12.0	20.0	11.5	21.5	13.5	20.5	13.5
12	16.0	8.0	17.5	10.5	20.5	12.0	21.0	12.0	21.0	13.0	20.0	13.5
13	15.5	8.5	17.5	10.0	20.5	11.5	20.5	12.5	20.5	12.5	19.5	13.0
14	15.5	8.0	18.0	10.0	20.5	11.0	16.0	13.5	20.5	12.5	19.5	12.5
15	16.0	8.0	17.5	10.0	21.0	12.0	19.5	13.5	20.5	12.5	19.5	12.5
16	16.0	8.0	17.5	9.5	20.0	12.5	20.5	13.5	20.5	12.0	19.5	13.0
17	15.5	8.5	17.0	9.5	19.5	11.5	21.0	13.0	---	---	19.5	12.5
18	14.5	8.5	16.0	9.0	19.5	11.5	21.5	12.5	20.5	13.5	19.5	12.5
19	15.0	8.0	14.5	8.5	20.0	11.5	19.0	14.0	20.5	12.5	19.0	13.0
20	13.5	8.0	16.5	8.5	20.0	11.5	21.0	14.5	---	---	---	---
21	16.0	8.0	17.5	9.0	20.5	11.5	21.5	13.5	20.0	12.5	19.5	13.0
22	16.0	9.0	18.0	9.5	20.5	11.5	20.0	14.0	20.5	13.0	19.5	13.5
23	15.0	8.5	15.0	10.5	21.0	12.0	18.5	14.5	20.5	13.0	19.0	13.5
24	15.0	8.0	18.5	10.0	21.0	12.5	20.5	14.0	20.5	13.0	17.0	13.5
25	15.0	8.0	19.0	10.5	21.0	12.5	22.0	14.0	20.5	12.5	17.5	13.5
26	15.5	8.0	19.5	11.0	20.5	12.5	21.0	14.0	21.5	12.5	19.5	13.5
27	16.0	8.0	19.0	11.0	21.0	13.5	21.0	14.0	---	---	19.0	13.0
28	16.0	8.5	18.5	10.5	21.0	12.0	21.0	14.0	21.0	12.5	18.5	12.5
29	16.0	9.0	18.0	10.0	21.0	12.5	20.0	14.0	20.5	12.0	18.5	12.5
30	17.0	9.0	18.5	10.0	21.0	12.5	20.5	14.5	20.5	12.0	18.5	13.0
31	---	---	19.0	10.5	---	---	20.5	14.0	20.0	12.0	---	---
MONTH	17.0	7.0	19.5	8.5	21.0	10.5	22.0	11.5	21.5	12.0	21.0	12.5

10278300 LOS ANGELES AQUEDUCT AT OUTLET, AT SAN FERNANDO, CALIF.

LOCATION.--Lat 34°18'46", long 118°29'32" (unsurveyed), Los Angeles County, in Mission de San Fernando substation at Los Angeles Aqueduct outlet at upper end of Van Norman Lake, at San Fernando.

PERIOD OF RECORD.--Chemical analyses: Water year 1967 (partial-record station), October 1967 to current year.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Records of discharge furnished by Los Angeles Department of Water and Power.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT. 15...	728	23	0	<10	22	3.7	31	3.1	101	20	13
NOV. 12...	658	26	40	<20	22	3.9	30	3.2	90	15	12
DEC. 10...	565	26	50	<10	23	4.4	30	3.2	103	23	13
JAN. 21...	440	24	40	<10	25	4.4	28	3.4	88	25	12
FEB. 21...	589	24	40	<20	25	5.4	30	3.0	93	35	12
APR. 18...	731	24	40	--	20	4.1	35	3.2	85	33	16
JUNE 12...	762	18	60	<20	19	3.4	27	29	95	21	10
JULY 31...	801	16	40	<20	18	3.4	24	26	85	21	8.9
SEP. 19...	721	14	60	<10	18	56	27	29	78	20	9.6

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	IODIDE (I) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS_SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	PERCENT SODIUM
OCT. 15...	.6	20	.38	1.7	.00	.02	.03	.19	.09	70	48
NOV. 12...	.5	10	.27	1.2	.01	.00	.00	.24	.01	72	47
DEC. 10...	.5	15	.34	1.5	.00	.00	.00	.24	.06	76	45
JAN. 21...	.5	15	.11	.50	.00	.00	.00	.24	.04	80	42
FEB. 21...	.5	10	.02	.10	.00	.08	.10	.32	.03	84	42
APR. 18...	.5	--	.25	1.1	.00	.00	.00	.24	.07	81	52
JUNE 12...	.6	20	.11	.50	.00	.00	.00	.16	.06	62	37
JULY 31...	.4	150	.14	.60	.00	.00	.00	.24	.02	58	36
SEP. 19...	.5	150	.09	.40	.00	.00	.00	.32	.04	67	16

10278300 LOS ANGELES AQUEDUCT AT OUTLET, AT SAN FERNANDO, CALIF.--Continued

DATE	SODIUM AD-SORP-TION RATIO	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)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CYANIDE (CN) (MG/L)	PHENOLS (UG/L)
OCT.										
15...	1.6	289	--	17.5	6	9.0	2	1.5	<10	<1
NOV.										
12...	1.5	--	7.8	14.0	3	9.4	6	.9	<1.0	<1
DEC.										
10...	1.5	--	7.9	10.0	3	10.6	8	3.2	<2.0	<1
JAN.										
21...	1.4	--	--	7.0	2	12.0	2	2.0	<1.0	<1
FEB.										
21...	1.4	--	7.6	8.0	2	11.4	2	2.4	10	<1
APR.										
18...	1.9	--	7.6	13.0	4	9.8	--	2.0	--	--
JUNE										
12...	1.5	--	--	18.0	4	9.2	1	1.9	<1.0	<1
JULY										
31...	1.4	--	7.9	21.0	4	8.0	4	2.0	<1.0	<1
SEP.										
19...	.7	280	8.3	21.0	4	8.4	7	1.5	<1.0	<1

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	DIS-SOLVED BERYL-LIUM (BE) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.										
15...	10	<100	130	470	<2	100	<10	<.1	6	10
NOV.										
12...	--	<100	100	--	2	<10	<10	<.1	7	20
DEC.										
10...	30	<100	50	440	<2	50	10	<.1	<2	10
JAN.										
21...	10	<100	100	310	<2	100	<10	.1	4	10
FEB.										
21...	<10	<100	50	290	<2	50	<10	<.1	<4	<10
APR.										
18...	10	--	--	0	--	--	--	--	--	--
JUNE										
12...	<10	<100	<100	310	<2	200	<10	<.1	4	10
JULY										
31...	20	<100	50	280	<2	200	<10	<.1	<4	10
SEP.										
19...	20	<100	70	290	<2	200	<10	<.1	3	20

10336593 GRASS LAKE CREEK NEAR MEYERS, CALIF.

LOCATION.--Lat 38°48'07", long 120°00'54", in SE¼NW¼ sec.11, T.11 N., R.18 E., El Dorado County, at gaging station on left bank 60 ft (18 m) upstream from Grass Lake Way, 300 ft (91 m) upstream from confluence with Upper Truckee River, and 3.8 mi (6.1 km) south of Meyers.

DRAINAGE AREA.--6.99 mi^2 (18.10 km^2).

PERIOD OF RECORD.--Water temperatures: November 1971 to August 1974 (discontinued).
Sediment records: October 1971 to June 1974 (discontinued).

EXTREMES.--October 1973 to June 1974:
Sediment concentrations: Maximum daily, 95 mg/l May 9; minimum daily, 0 mg/l on many days during October and November.
Sediment discharge: Maximum daily, 19 tons (17 tonnes) May 9; minimum daily, 0 tons (0 tonnes) on many days during October and November.
Period of record:
Sediment concentrations: Maximum daily, 113 mg/l June 4, 1972; minimum daily, 0 mg/l on several days in 1972-74.
Sediment discharge: Maximum daily, 22 tons (20 tonnes) June 4, 1972; minimum daily, 0 tons (0 tonnes) on several days each year.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1973 TO AUGUST 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	5.0	11.5		---	
2	---	---	---	---	---	---	1.0	6.5	---		---	
3	---	---	0.0	0.0	---	---	---	4.5	11.0		---	
4	4.5	---	---	---	---	---	---	5.0	8.0		---	
5	---	---	---	---	---	0.5	3.0	6.5	10.5		---	
6	---	4.0	---	---	0.5	---	---	6.0	9.5		---	
7	5.5	---	---	---	---	---	---	3.0	12.0		---	
8	---	---	---	---	---	---	2.0	7.0	---		---	
9	---	---	---	0.5	---	---	---	8.0	7.0		---	
10	---	6.0	---	---	---	---	3.0	3.5	12.0		---	
11	---	5.0	---	---	---	---	---	6.0	9.5		---	
12	---	1.5	1.0	---	1.5	---	2.0	5.5	13.0		---	
13	---	2.5	---	---	---	3.0	---	8.5	13.0		---	
14	---	---	---	---	---	---	---	4.0	10.5		---	
15	6.0	---	---	1.0	---	---	---	7.5	9.0		---	
16	---	---	---	2.0	---	---	4.5	3.5	---		---	
17	---	---	1.0	2.0	---	---	2.0	4.0	10.0		---	
18	---	---	---	---	---	---	3.0	4.0	12.5		---	
19	---	0.5	---	1.5	---	---	1.0	3.0	---		---	
20	---	---	---	---	0.5	0.5	4.5	8.0	7.0		---	
21	---	---	---	---	---	---	2.0	8.5	---		---	
22	---	---	---	0.5	---	---	6.5	5.0	---		---	
23	---	---	---	---	---	---	2.0	7.5	---		---	
24	2.5	---	---	---	---	---	0.5	10.5	---		---	
25	---	---	---	---	---	3.0	1.5	7.5	12.5		---	
26	---	---	---	---	---	---	0.5	6.0	7.5		---	
27	---	1.0	---	---	0.5	---	4.0	10.0	---		---	
28	---	---	---	---	---	1.0	2.5	9.0	14.5		12.5	
29	---	---	1.0	0.0	---	---	5.0	8.0	---		---	
30	3.0	---	---	---	---	---	4.0	10.5	---		---	
31	---	---	---	---	---	---	---	7.0	---		---	
MONTH	---	---	---	---	---	---	---	6.5	---		---	

10336593 GRASS LAKE CREEK NEAR MEYERS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	1.4	3	.01	3.1	0	0	5.2	5	.07
2	1.4	3	.01	3.0	0	0	5.3	8	.11
3	1.6	2	.01	2.5	0	0	5.0	5	.07
4	1.6	2	.01	2.5	0	0	4.4	4	.05
5	1.6	2	.01	2.8	1	.01	4.3	4	.05
6	1.6	2	.01	6.2	9	.15	4.1	4	.04
7	3.0	6	.05	12	11	.36	4.1	3	.03
8	2.8	2	.02	7.2	4	.08	4.1	3	.03
9	2.4	1	.01	9.2	13	.53	4.1	3	.03
10	2.2	1	.01	14	14	.57	4.1	2	.02
11	2.2	1	.01	43	66	8.2	4.1	2	.02
12	2.4	1	.01	37	42	5.6	4.1	2	.02
13	2.4	0	0	19	6	.31	4.1	2	.02
14	2.2	0	0	12	3	.10	3.9	2	.02
15	2.0	0	0	10	2	.05	3.9	2	.02
16	2.0	0	0	9.7	2	.05	3.9	2	.02
17	2.0	0	0	8.8	2	.05	4.4	4	.05
18	2.0	0	0	7.6	2	.04	4.3	2	.02
19	2.0	0	0	6.5	2	.04	4.1	2	.02
20	2.4	0	0	6.5	2	.04	3.9	2	.02
21	2.4	0	0	6.2	2	.03	3.9	2	.02
22	2.6	2	.01	6.2	2	.03	3.9	2	.02
23	3.7	1	.01	6.2	2	.03	3.9	2	.02
24	3.1	0	0	5.6	2	.03	3.7	2	.02
25	3.3	0	0	5.3	2	.03	3.7	2	.02
26	3.3	0	0	5.0	2	.03	3.9	2	.02
27	3.5	0	0	5.0	2	.03	3.9	2	.02
28	3.5	0	0	5.0	2	.03	4.8	3	.04
29	3.3	0	0	5.0	2	.03	15	14	.59
30	3.1	0	0	5.0	2	.03	11	3	.09
31	3.3	0	0	--	--	--	8.0	2	.04
TOTAL	76.3	--	.19	277.1	--	16.48	151.1	--	1.63

	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	7.6	2	.04	9.7	5	.13	10	2	.05
2	6.9	3	.06	10	5	.14	9.2	2	.05
3	6.4	4	.07	9.7	5	.13	9.2	2	.05
4	6.0	2	.03	9.2	6	.15	9.2	2	.05
5	5.6	2	.03	8.8	6	.14	8.8	2	.05
6	5.3	2	.03	11	7	.21	8.8	2	.05
7	4.8	2	.03	9.7	6	.16	8.4	2	.05
8	4.4	2	.02	8.8	6	.14	8.4	2	.05
9	4.3	2	.02	8.4	5	.11	7.6	2	.04
10	4.3	2	.02	8.4	5	.11	7.6	2	.04
11	4.3	2	.02	8.4	4	.09	7.6	2	.04
12	4.3	2	.02	8.8	4	.10	7.2	2	.04
13	4.3	2	.02	8.4	4	.09	7.2	2	.04
14	6.6	5	.16	8.0	4	.09	8.0	2	.04
15	19	14	.72	8.0	4	.09	9.2	2	.05
16	17	8	.37	8.4	4	.09	10	2	.05
17	18	6	.29	8.8	3	.07	10	2	.05
18	19	9	.46	8.4	3	.07	9.2	2	.05
19	21	5	.28	8.0	3	.06	9.2	2	.05
20	18	3	.15	9.2	3	.07	9.7	2	.05
21	16	3	.13	7.6	3	.06	10	2	.05
22	17	8	.37	7.2	3	.06	10	2	.05
23	15	4	.16	7.2	3	.06	11	2	.06
24	14	4	.15	7.6	2	.04	11	2	.06
25	13	4	.14	7.6	2	.04	12	2	.06
26	12	4	.13	7.6	2	.04	11	2	.06
27	12	4	.13	7.2	2	.04	11	2	.06
28	12	4	.13	6.8	2	.04	11	2	.06
29	11	4	.12	--	--	--	12	3	.10
30	11	4	.12	--	--	--	10	3	.08
31	11	4	.12	--	--	--	11	3	.09
TOTAL	331.1	--	4.54	236.9	--	2.62	294.5	--	1.67

10336593 GRASS LAKE CREEK NEAR MEYERS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	9.7	4	.10	28	27	2.0	62	21	3.5
2	9.7	4	.10	31	36	3.0	60	18	2.9
3	9.7	4	.10	33	25	2.2	60	22	3.6
4	10	4	.11	36	32	3.1	61	21	3.5
5	11	3	.09	41	37	4.1	61	19	3.1
6	11	3	.09	49	50	6.6	63	18	3.1
7	12	3	.10	63	60	10	62	17	2.8
8	14	3	.11	70	75	14	56	16	2.4
9	14	3	.11	75	95	19	53	18	2.6
10	13	3	.11	80	80	17	53	19	2.7
11	14	3	.11	78	73	15	53	23	3.3
12	15	3	.12	74	50	10	52	22	3.1
13	16	3	.13	68	32	5.9	49	13	1.7
14	17	4	.18	66	30	5.3	47	13	1.6
15	19	7	.36	61	24	4.0	44	10	1.2
16	20	9	.49	53	20	2.9	42	10	1.1
17	22	11	.65	44	17	2.0	39	9	.95
18	23	9	.56	39	21	2.2	36	9	.87
19	21	7	.40	36	9	.87	34	8	.73
20	22	9	.53	34	9	.83	32	8	.69
21	24	9	.58	35	9	.85	30	8	.65
22	27	11	.80	38	12	1.2	29	8	.63
23	26	11	.77	42	19	2.2	29	8	.63
24	21	17	.96	46	20	2.5	26	9	.63
25	21	13	.74	50	30	4.1	24	9	.58
26	20	6	.32	61	28	4.6	23	7	.43
27	20	5	.27	70	36	6.8	21	7	.40
28	20	7	.38	73	42	8.3	21	7	.40
29	21	6	.34	66	31	5.5	21	7	.40
30	25	14	.95	62	25	4.2	20	7	.38
31	--	--	--	62	19	3.2	--	--	--
TOTAL	528.1	--	10.66	1664	--	173.45	1263	--	50.57

TOTAL DISCHARGE FOR PERIOD, OCT. 1, 1973 TO JUNE 30, 1974 (CFS DAYS) 4822.1
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD, OCT. 1, 1973 TO JUNE 30, 1974 (TONS) 261.81

10336593 GRASS LAKE CREEK NEAR MEYERS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
OCT.						
04...	1100	4.5	1.6	2	.01	73
NOV.						
09...	2350	--	18	30	1.5	33
11...	1400	--	53	74	11	32
11...	1710	4.5	49	42	5.6	33
DEC.						
03...	1410	--	5.0	5	.07	35
JAN.						
03...	1130	--	6.4	5	.09	43
16...	1020	2.0	15	7	.28	40
APR.						
21...	1035	2.0	21	5	.28	39
24...	1440	.5	23	28	1.7	55
MAY						
01...	0650	2.0	26	13	.91	28
01...	1840	5.0	35	61	5.8	28
02...	1725	6.5	36	61	5.9	43
03...	1225	4.5	29	12	.94	31
05...	1755	6.5	51	84	12	35
06...	1330	6.0	42	22	2.5	27
07...	0935	3.0	48	18	2.3	26
08...	0630	2.5	60	40	6.5	25
08...	1800	7.0	84	140	32	25
08...	1850	7.0	87	138	32	26
09...	1730	8.0	92	163	40	23
10...	0930	3.5	70	22	4.2	24
13...	1515	8.5	66	28	5.0	27
14...	0910	4.0	59	18	2.9	36
15...	0605	3.0	62	18	3.0	30
15...	1500	7.5	56	21	3.2	24
15...	1845	7.5	64	30	5.2	23
16...	1040	3.5	51	16	2.2	40
17...	1205	4.0	44	16	1.9	24
18...	1345	4.0	41	27	3.0	68
20...	1515	8.0	35	10	.94	40
22...	1615	10.0	37	17	1.7	19
23...	1205	7.5	38	12	1.2	21
24...	1425	10.5	41	10	1.1	32
25...	1145	7.5	44	22	2.6	42
26...	0950	6.0	50	14	1.9	22
27...	1410	10.0	60	24	3.9	23
28...	1935	9.0	82	59	13	24
30...	1415	10.5	57	20	3.1	18
31...	1115	7.0	57	12	1.8	31
JUNE						
01...	1410	11.5	57	18	2.8	29
02...	1020	--	58	13	2.0	31
04...	1015	8.0	58	20	3.1	21
05...	1250	10.5	57	16	2.5	28
06...	1055	9.5	61	15	2.5	28
07...	1450	12.0	58	17	2.7	22
09...	0815	7.0	51	17	2.3	19
10...	1405	12.0	51	17	2.3	23
11...	0945	9.5	53	23	3.3	22
12...	1230	13.0	51	22	3.0	18
13...	1250	13.0	49	10	1.3	31
14...	1105	10.5	48	13	1.7	30
15...	0745	9.0	45	10	1.2	29
17...	1025	10.0	39	9	.95	32
18...	1510	12.5	35	9	.85	30
20...	0820	7.0	32	8	.69	25
25...	1505	12.5	24	10	.65	41
28...	1510	14.5	21	7	.40	40

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CALIF.

LOCATION.--Lat 38°55'22", long 119°59'23", in NW¼SE¼ sec.4, T.12 N., R.18 E., El Dorado County, at gaging station on right bank on downstream side of U.S. Highway 50 bridge, 1.0 mi (1.6 km) northeast of South Lake Tahoe Post Office, and 1.4 mi (2.3 km) upstream from Lake Tahoe.

DRAINAGE AREA.--54.8 mi^2 (141.9 km^2).

PERIOD OF RECORD.--Water temperatures: November 1971 to June 1974 (discontinued).
Sediment records: October 1971 to June 1974 (discontinued).

EXTREMES.--October 1973 to June 1974:
Sediment concentrations: Maximum daily, 312 mg/l Dec. 29; minimum daily, 0 mg/l on several days during October.
Sediment discharge: Maximum daily, 339 tons (308 tonnes) Dec. 29; minimum daily, 0 tons (0 tonnes) on several days during October.
Period of record:
Sediment concentrations: Maximum daily, 312 mg/l Dec. 29, 1973; minimum daily, 0 mg/l on several days during October 1973.
Sediment discharge: Maximum daily, 339 tons (308 tonnes) Dec. 29, 1973; minimum daily, 0 tons (0 tonnes) on several days during October 1973.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	1.0	---	---	8.0	---			
2	---	---	---	---	---	---	0.5	10.5	10.0			
3	---	---	---	---	---	0.5	1.0	9.0	11.5			
4	---	---	0.0	---	1.0	---	2.0	---	---			
5	---	---	---	---	1.5	---	---	8.5	12.0			
6	---	5.0	---	---	---	1.0	5.5	11.5	8.0			
7	8.0	---	0.0	---	0.5	---	---	4.0	---			
8	---	4.5	---	---	---	---	---	9.0	11.0			
9	---	---	---	0.0	---	---	---	11.0	10.0			
10	---	6.0	---	---	---	---	7.5	9.0	13.0			
11	---	6.0	---	---	0.5	---	11.0	11.0	14.0			
12	---	---	0.0	---	2.0	---	8.0	---	---			
13	---	4.0	---	---	2.5	---	10.5	9.5	10.5			
14	---	---	---	---	---	---	8.5	---	7.0			
15	9.0	---	---	3.5	---	---	9.0	8.5	10.0			
16	---	---	---	3.5	2.0	4.0	10.0	9.5	---			
17	---	---	---	2.0	---	---	5.5	4.0	10.0			
18	---	---	0.0	4.0	---	---	3.5	2.5	---			
19	---	---	---	4.5	---	3.5	8.0	2.5	8.5			
20	---	0.0	---	1.0	0.0	---	8.0	9.5	10.0			
21	---	---	---	4.0	---	---	8.5	9.0	14.5			
22	---	---	---	---	---	---	10.0	9.0	13.0			
23	---	---	---	1.5	---	---	4.0	11.0	16.5			
24	3.5	---	---	4.5	---	2.0	3.0	11.0	---			
25	---	---	---	---	---	---	7.5	---	---			
26	---	---	---	---	---	---	9.0	11.0	14.5			
27	---	2.5	---	3.0	---	3.0	9.0	11.5	---			
28	---	---	---	---	---	---	9.0	9.5	---			
29	---	2.0	1.0	---	---	4.0	11.0	4.5	14.5			
30	8.5	---	---	0.5	---	---	12.0	13.0	---			
31	---	---	---	---	---	---	---	10.0	---			
MONTH	---	---	---	---	---	---	7.5	9.0	---			

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	8.6	5	.12	19	2	.10	73	3	.59
2	8.0	3	.06	19	2	.10	78	7	1.5
3	8.2	2	.04	17	2	.09	81	9	2.0
4	12	3	.21	16	4	.17	82	6	1.3
5	8.6	2	.05	15	3	.12	80	8	1.7
6	9.4	2	.05	58	20	3.5	80	11	2.4
7	12	2	.06	98	22	8.1	82	13	2.9
8	16	3	.13	100	14	3.8	80	14	3.0
9	13	2	.07	90	18	5.5	77	17	3.5
10	12	3	.10	232	113	74	73	17	3.4
11	12	2	.06	697	134	275	70	19	3.6
12	11	2	.06	875	79	198	70	17	3.2
13	12	2	.06	358	35	35	73	15	3.0
14	12	1	.03	203	13	7.1	73	18	3.5
15	13	1	.04	158	8	3.4	71	18	3.5
16	12	0	0	136	5	1.8	69	17	3.2
17	12	0	0	142	7	2.7	71	14	2.7
18	12	0	0	132	9	3.2	80	15	3.2
19	11	0	0	103	7	1.9	77	15	3.1
20	12	0	0	90	7	1.7	68	13	2.4
21	13	0	0	87	5	1.2	59	11	1.8
22	13	1	.04	82	6	1.3	57	11	1.7
23	27	7	.51	76	8	1.6	56	10	1.5
24	19	1	.05	70	6	1.1	56	12	1.8
25	19	2	.10	69	10	1.9	53	10	1.4
26	19	1	.05	68	10	1.8	53	11	1.6
27	19	2	.10	67	9	1.6	74	12	2.4
28	20	2	.11	67	6	1.1	95	16	4.1
29	20	2	.11	69	3	.56	332	312	339
30	19	2	.10	69	2	.37	324	79	83
31	19	2	.10	--	--	--	190	11	5.6
TOTAL	433.8	--	2.41	4282	--	637.81	2857	--	497.59

	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	155	5	2.1	93	4	1.0	66	13	2.3
2	110	8	2.4	93	6	1.5	80	17	3.7
3	95	6	1.5	92	6	1.5	104	17	4.8
4	88	5	1.2	87	5	1.2	110	16	4.8
5	82	4	.89	82	4	.89	108	13	3.8
6	77	4	.83	82	6	1.3	98	12	3.2
7	74	6	1.2	83	6	1.3	91	9	2.2
8	72	5	.97	82	7	1.5	86	10	2.3
9	72	7	1.4	80	8	1.7	85	11	2.5
10	72	7	1.4	77	8	1.7	85	10	2.3
11	71	6	1.2	75	7	1.4	85	10	2.3
12	68	3	.55	75	6	1.2	96	10	2.6
13	67	3	.54	71	7	1.3	96	11	2.9
14	110	7	2.1	71	7	1.3	105	11	3.1
15	430	194	244	67	6	1.1	114	10	3.1
16	444	175	212	68	4	.73	117	12	3.8
17	484	101	139	70	5	.95	120	12	3.9
18	391	113	153	69	7	1.3	115	11	3.4
19	439	172	212	71	10	1.9	109	11	3.2
20	265	95	68	72	15	2.9	109	10	2.9
21	206	52	29	66	14	2.5	112	10	3.0
22	179	37	18	62	18	3.0	115	9	2.8
23	167	33	15	60	6	.97	117	8	2.5
24	141	35	13	59	5	.80	121	6	2.0
25	127	30	10	58	5	.78	124	6	2.0
26	118	30	9.6	57	5	.77	127	7	2.4
27	121	28	9.1	57	5	.77	129	6	2.1
28	108	18	5.2	57	7	1.1	138	13	4.8
29	105	10	2.8	--	--	--	192	60	31
30	98	5	1.3	--	--	--	176	50	24
31	94	5	1.3	--	--	--	150	37	15
TOTAL	5130	--	1160.58	2036	--	38.36	3480	--	154.7

10336610 UPPER TRUCKEE RIVER AT SOUTH LAKE TAHOE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	166	48	22	241	24	16	457	45	56
2	172	40	19	280	30	23	470	45	57
3	158	16	6.8	323	40	35	490	45	60
4	143	20	7.7	327	35	31	503	45	61
5	150	13	5.3	341	33	30	481	40	52
6	143	10	3.9	386	33	34	520	35	49
7	140	11	4.2	440	51	61	514	42	58
8	150	12	4.9	520	60	84	448	45	54
9	150	13	5.3	547	65	96	420	27	31
10	127	8	2.7	564	69	105	438	28	33
11	126	7	2.4	547	72	106	442	37	44
12	132	7	2.5	545	50	74	470	35	44
13	129	7	2.4	498	42	56	465	32	40
14	135	7	2.6	461	30	37	440	38	45
15	148	11	4.4	465	30	38	406	28	31
16	168	14	6.4	392	36	38	374	23	23
17	182	15	7.4	343	40	37	336	22	20
18	204	28	15	305	40	33	301	20	16
19	172	14	6.5	257	73	51	256	20	14
20	168	8	3.6	232	72	45	211	11	6.3
21	174	9	4.2	220	72	43	201	15	8.1
22	208	18	10	230	60	37	222	19	11
23	232	49	31	275	47	35	227	20	12
24	214	26	15	330	57	51	219	18	11
25	195	19	10	398	55	59	200	13	7.0
26	175	20	9.5	479	55	71	181	14	6.8
27	167	15	6.8	601	42	68	162	13	5.7
28	164	10	4.4	630	42	71	153	10	4.1
29	162	8	3.5	542	33	48	153	9	3.7
30	172	13	6.0	463	34	43	157	11	4.7
31	--	--	--	446	44	53	--	--	--
TOTAL	4926	--	235.4	12628	--	1609	10317	--	868.4

TOTAL DISCHARGE FOR PERIOD, OCT. 1, 1973 TO JUNE 30, 1974 (CFS-DAYS) 46089.8
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD, OCT. 1, 1973 TO JUNE 30, 1974 (TONS) 5204.25

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1973 TO JUNE 1974

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
OCT.						
03...	1450	--	8.6	2	.05	77
NOV.						
10...	0825	6.0	265	135	97	28
11...	1250	6.0	758	142	291	52
12...	1330	--	1060	74	212	23
DEC.						
04...	1640	--	82	6	1.3	52
JAN.						
09...	1130	--	71	3	.58	100
16...	1600	3.5	425	207	238	37
17...	1320	2.0	531	50	72	35
FEB.						
05...	1255	1.5	80	4	.86	64

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, OCTOBER 1973 TO JUNE 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	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
MAR.												
06...	1045	1.0	4	94	1	6	29	53	69	84	96	100
MAY												
03...	1045	3.5	4	325	1	6	27	52	74	86	95	100

10336630 EAGLE CREEK NEAR CAMP RICHARDSON, CALIF.

LOCATION.--Lat 38°57'05", long 120°06'38", in SW¼SW¼ sec.21, T.13 N., R.17 E., El Dorado County, Eldorado National Forest, at gaging station at downstream edge of culvert on State Highway 89, 0.7 mi (1.1 km) northwest of Bay View Guard Station, and 4.0 mi (6.4 km) northwest of Camp Richardson.

DRAINAGE AREA.--6.38 mi^2 (16.52 km^2).

PERIOD OF RECORD.--Water temperatures: October 1971 to June 1974 (discontinued).
Sediment records: October 1971 to June 1974 (discontinued).

EXTREMES.--October 1973 to June 1974:
Sediment concentrations: Maximum daily, 36 mg/l Nov. 11; minimum daily, 0 mg/l on many days.
Sediment discharge: Maximum daily, 28 tons (25 tonnes) Nov. 11; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 36 mg/l Nov. 11, 1973; minimum daily, 0 mg/l on many days each year.
Sediment discharge: Maximum daily, 28 tons (25 tonnes) Nov. 11, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1973 TO JUNE 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	3.0	6.0			
2	8.0	---	---	---	---	---	---	3.5	---			
3	---	---	---	---	---	---	---	---	6.0			
4	---	---	---	---	---	---	3.0	4.0	4.5			
5	---	---	---	---	---	---	---	6.5	6.0			
6	---	6.0	1.0	---	0.5	1.5	---	2.5	5.0			
7	---	---	---	---	---	---	---	---	6.0			
8	---	3.5	---	---	---	---	2.5	3.0	6.0			
9	---	---	---	0.5	---	---	1.0	4.0	5.0			
10	---	5.5	---	---	---	---	3.0	2.5	7.0			
11	---	---	---	---	---	---	---	4.0	6.5			
12	---	2.0	0.5	---	1.0	---	2.0	3.0	8.0			
13	---	2.5	---	---	---	3.0	---	4.0	8.0			
14	---	---	---	---	---	---	---	2.5	8.0			
15	9.5	---	---	---	---	---	---	2.5	7.0			
16	---	---	---	1.5	---	---	3.5	2.5	---			
17	---	---	1.0	1.0	---	---	2.0	3.0	8.0			
18	---	---	---	---	---	---	2.5	3.0	10.5			
19	---	---	---	1.5	---	---	1.0	2.5	---			
20	---	1.0	---	---	0.5	0.5	4.0	5.5	7.5			
21	---	---	---	---	---	---	2.0	5.5	---			
22	---	---	---	1.0	---	---	3.5	5.5	---			
23	---	---	---	---	---	---	1.5	6.0	---			
24	5.5	---	---	---	---	---	0.5	6.0	---			
25	---	---	---	---	---	---	1.5	5.5	11.0			
26	---	---	---	---	---	---	1.0	4.0	9.5			
27	---	---	---	---	---	---	2.5	5.0	---			
28	---	1.0	---	---	---	0.5	2.0	5.0	12.0			
29	---	---	---	---	---	---	4.5	5.0	---			
30	---	---	---	1.0	---	---	3.0	5.5	---			
31	6.0	---	---	---	---	---	---	4.5	---			
MONTH	---	---	---	---	---	---	---	4.0	---			

10336630 EAGLE CREEK NEAR CAMP RICHARDSON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	.39	3	0	4.2	0	0	10	1	.03
2	.37	3	0	4.0	0	0	13	1	.04
3	.33	2	0	3.6	0	0	14	0	0
4	.42	1	0	2.9	0	0	12	0	0
5	.47	1	0	4.0	1	.01	9.9	0	0
6	.58	1	0	22	5	.27	9.3	0	0
7	1.1	2	.01	117	15	6.0	9.1	0	0
8	2.2	2	.01	78	2	.57	8.8	1	.02
9	2.9	1	.01	67	6	2.9	8.8	1	.02
10	3.1	1	.01	213	19	12	8.8	1	.02
11	2.9	1	.01	287	36	28	9.1	2	.05
12	2.7	0	0	253	20	16	9.3	2	.05
13	2.7	0	0	89	1	.24	10	2	.05
14	2.7	0	0	56	1	.15	10	2	.05
15	2.9	0	0	36	1	.10	9.3	1	.03
16	2.9	0	0	28	1	.08	8.6	1	.02
17	2.9	0	0	27	1	.07	12	1	.03
18	2.7	0	0	27	1	.07	11	1	.03
19	2.5	0	0	23	1	.06	9.6	1	.03
20	2.4	0	0	19	1	.05	8.6	1	.02
21	2.7	0	0	18	1	.05	8.3	1	.02
22	3.8	2	.02	16	1	.04	9.1	1	.02
23	9.9	4	.11	15	1	.04	8.8	1	.02
24	10	1	.03	14	1	.04	8.1	1	.02
25	8.3	0	0	13	1	.04	7.6	1	.02
26	6.9	0	0	13	1	.04	7.3	1	.02
27	6.4	0	0	12	1	.03	9.9	1	.03
28	6.1	0	0	12	1	.03	10	1	.03
29	5.7	0	0	12	1	.03	63	10	1.8
30	4.6	0	0	10	1	.03	44	4	.48
31	4.2	0	0	--	--	--	30	3	.24
TOTAL	107.76	--	.21	1495.7	--	66.94	407.3	--	3.19

	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	22	3	.18	11	1	.03	13	6	.21
2	17	3	.14	11	1	.03	15	3	.12
3	14	2	.08	10	1	.03	16	7	.30
4	13	2	.07	9.6	1	.03	17	7	.32
5	12	2	.06	9.3	1	.03	16	5	.22
6	13	2	.07	8.8	1	.02	12	4	.13
7	13	2	.07	8.1	1	.02	9.6	3	.08
8	12	2	.06	7.8	1	.02	8.6	3	.07
9	10	2	.05	7.8	1	.02	7.6	2	.04
10	9.3	2	.05	7.8	1	.02	7.3	2	.04
11	8.6	2	.05	7.8	1	.02	7.1	1	.02
12	8.8	2	.05	7.6	1	.02	7.3	0	0
13	8.3	2	.04	7.8	1	.02	7.3	0	0
14	16	3	.24	7.6	1	.02	7.6	0	0
15	182	21	10	7.1	2	.04	10	0	0
16	138	13	4.8	7.3	2	.04	12	0	0
17	94	3	.77	7.6	2	.04	12	0	0
18	112	13	6.1	7.3	2	.04	11	1	.03
19	114	5	1.8	9.3	4	.10	10	1	.03
20	57	1	.15	8.3	4	.09	11	1	.03
21	35	1	.09	7.6	3	.06	12	1	.03
22	26	1	.07	7.3	3	.06	13	1	.04
23	21	1	.06	6.6	3	.05	14	1	.04
24	18	1	.05	6.1	3	.05	16	1	.04
25	17	1	.05	6.1	3	.05	18	1	.05
26	15	1	.04	6.6	3	.05	16	1	.04
27	14	1	.04	6.6	3	.05	15	1	.04
28	13	1	.04	6.4	3	.05	15	1	.04
29	12	1	.03	--	--	--	18	1	.05
30	11	1	.03	--	--	--	16	1	.04
31	11	1	.03	--	--	--	15	1	.04
TOTAL	1067.0	--	25.36	222.2	--	1.10	385.4	--	2.09

10336630 EAGLE CREEK NEAR CAMP RICHARDSON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	16	2	.09	51	3	.41	133	3	1.1
2	16	2	.09	64	2	.35	138	4	1.5
3	14	2	.08	64	1	.17	151	3	1.2
4	12	2	.06	66	1	.18	145	3	1.2
5	12	2	.06	72	1	.19	143	2	.77
6	11	2	.06	86	2	.46	157	2	.85
7	11	1	.03	113	3	.92	149	2	.80
8	12	2	.06	126	3	1.0	116	2	.63
9	13	4	.14	138	3	1.1	114	2	.62
10	12	2	.06	122	2	.66	130	3	1.1
11	12	2	.06	112	2	.60	135	2	.73
12	14	2	.08	101	2	.55	142	2	.77
13	16	2	.09	87	2	.47	136	2	.73
14	18	1	.05	86	2	.46	126	1	.34
15	25	1	.07	84	2	.45	116	1	.31
16	31	1	.08	63	2	.34	105	2	.57
17	36	0	0	46	2	.25	95	2	.51
18	39	1	.11	34	2	.18	90	1	.24
19	26	1	.07	27	6	.44	76	1	.21
20	24	1	.06	24	9	.58	60	1	.16
21	29	2	.16	29	3	.23	63	1	.17
22	43	3	.35	48	1	.13	76	1	.21
23	43	2	.23	77	5	1.0	79	1	.21
24	31	1	.08	100	12	3.2	72	1	.19
25	24	1	.06	116	8	2.5	64	1	.17
26	19	2	.10	145	7	2.7	59	1	.16
27	17	1	.05	167	6	2.7	52	1	.14
28	17	1	.05	167	6	2.7	52	1	.14
29	19	0	0	131	3	1.1	60	1	.16
30	27	1	.07	113	4	1.2	67	1	.18
31	--	--	--	120	4	1.3	--	--	--
TOTAL	639	--	2.55	2779	--	28.52	3101	--	16.07

TOTAL DISCHARGE FOR PERIOD, OCT. 1, 1973 TO JUNE 30, 1974 (CFS-DAYS) 10204.36
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD, OCT. 1, 1973 TO JUNE 30, 1974 (TONS) 146.03

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1973 TO JUNE 1974

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
OCT.						
02...	1025	8.6	.42	3	.00	100
NOV.						
10...	0110	--	255	47	32	19
11...	1005	--	320	36	31	8
12...	1420	2.0	242	12	7.8	1
12...	1430	--	235	16	10	5
DEC.						
06...	1415	1.0	9.1	0	.00	100
JAN.						
04...	1450	.5	9.9	2	.05	100
15...	1120	--	205	19	11	30
JUNE						
05...	2300	--	177	2	.96	43

10336640 MEEKS CREEK AT MEEKS BAY, CALIF.

LOCATION.--Lat 39°02'09", long 120°07'23", in NE¼NW¼ sec.29, T.14 N., R.17 E., El Dorado County, at gaging station on upstream side of State Highway 89 culvert, and 0.1 mi (0.2 km) north of Meeks Bay Fire Department.

DRAINAGE AREA.--8.08 mi^2 (20.93 km^2).

PERIOD OF RECORD.--Water temperatures: October 1971 to July 1974 (discontinued).
Sediment records: October 1971 to June 1974 (discontinued).

EXTREMES.--October 1973 to June 1974:
Sediment concentrations: Maximum daily, 30 mg/l Jan. 16; minimum daily, 0 mg/l Apr. 3, 4, 7.
Sediment discharge: Maximum daily, 18 tons (16 tonnes) Nov. 12; minimum daily, 0 tons (0 tonnes) on many days during October, November, and April.
Period of record:
Sediment concentrations: Maximum daily, 31 mg/l Sept. 1, 1972; minimum daily, 0 mg/l on many days each year.
Sediment discharge: Maximum daily, 18 tons (16 tonnes) Nov. 12, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1973 TO JULY 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	8.5	9.0	---	---	---
2	---	3.5	---	---	---	---	1.0	5.0	---	---	---	---
3	---	---	0.0	0.5	---	---	3.0	6.0	11.5	---	---	---
4	---	---	---	---	---	---	---	7.5	9.0	---	---	---
5	14.0	---	---	---	---	0.5	4.0	8.5	10.5	---	---	---
6	---	2.5	---	---	0.0	---	---	---	9.0	15.0	---	---
7	---	---	---	---	---	---	---	---	12.0	---	---	---
8	---	2.5	---	---	---	---	3.5	10.5	11.0	---	---	---
9	---	---	---	---	---	---	1.5	9.0	7.0	---	---	---
10	---	6.0	---	---	---	---	3.5	3.0	14.0	---	---	---
11	---	---	---	0.5	---	---	2.0	7.5	10.0	---	---	---
12	---	2.5	0.0	---	0.5	2.0	2.0	4.5	13.0	---	---	---
13	---	3.0	---	---	---	---	---	9.0	14.0	---	---	---
14	---	---	---	---	---	---	---	3.0	13.5	---	---	---
15	9.5	---	---	0.5	---	---	---	3.0	10.0	---	---	---
16	---	---	---	0.0	---	---	4.0	4.0	---	---	---	---
17	---	---	1.0	0.0	---	---	6.0	4.0	11.0	---	---	---
18	---	---	---	0.5	---	---	5.0	2.0	14.0	---	---	---
19	---	---	---	0.0	---	---	1.0	2.0	---	---	---	---
20	---	0.5	---	---	1.0	0.5	7.0	6.5	8.0	---	---	---
21	---	---	---	---	---	---	2.0	7.5	---	---	---	---
22	---	---	---	0.5	---	---	7.5	9.0	---	---	---	---
23	---	---	---	---	---	---	3.0	8.5	---	---	---	---
24	2.0	---	---	---	---	---	---	8.0	---	---	---	---
25	---	---	---	---	---	---	1.5	8.0	16.0	---	---	---
26	---	---	---	---	---	---	1.0	4.5	10.0	---	---	---
27	---	---	---	---	---	---	4.0	9.0	---	---	---	---
28	---	0.0	---	---	---	0.5	2.0	9.5	14.5	---	---	---
29	---	---	1.0	---	---	---	7.5	11.0	---	---	---	---
30	---	---	---	0.5	---	---	3.0	10.0	---	---	---	---
31	---	---	---	---	---	---	---	7.5	---	---	---	---
MONTH	---	---	---	---	---	---	---	7.0	---	---	---	---

10336640 MEEKS CREEK AT MEEKS BAY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	.02	4	0	.58	7	.01	10	1	.03
2	.02	4	0	.43	6	.01	16	1	.04
3	.02	3	0	.30	5	0	16	1	.04
4	.02	3	0	.20	5	0	13	1	.04
5	.02	3	0	.43	5	.01	12	1	.03
6	.02	3	0	2.4	4	.03	10	1	.03
7	.02	3	0	3.0	3	.02	11	1	.03
8	.04	2	0	11	5	.15	10	1	.03
9	.04	2	0	6.8	2	.03	9.2	1	.02
10	.04	2	0	38	16	1.6	9.2	1	.02
11	.05	2	0	209	23	14	10	1	.03
12	.05	1	0	262	19	18	11	1	.03
13	.10	1	0	58	2	.33	11	1	.03
14	.10	1	0	37	2	.20	12	1	.03
15	.20	1	0	28	1	.08	11	1	.03
16	.05	1	0	25	1	.07	9.2	1	.02
17	.05	1	0	29	1	.08	14	2	.08
18	.10	1	0	28	1	.08	17	3	.14
19	.20	1	0	20	1	.05	13	2	.07
20	.58	1	0	14	1	.04	12	1	.03
21	.58	1	0	14	1	.04	12	1	.03
22	.73	8	.02	13	1	.04	14	1	.04
23	1.5	2	.01	12	1	.03	12	1	.03
24	1.5	1	0	12	1	.03	11	1	.03
25	1.2	1	0	10	1	.03	11	1	.03
26	.96	1	0	12	1	.03	12	1	.03
27	.96	2	.01	11	1	.03	17	1	.05
28	.73	3	.01	10	1	.03	20	2	.11
29	.73	4	.01	11	1	.03	49	15	2.1
30	.73	5	.01	12	1	.03	62	12	2.0
31	.58	6	.01	--	--	--	32	3	.26
TOTAL	11.94	--	.08	890.14	--	35.11	488.6	--	5.51

	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	23	2	.12	18	1	.05	22	2	.12
2	21	2	.11	17	1	.05	24	2	.13
3	18	1	.05	16	2	.09	24	1	.06
4	16	1	.04	15	2	.08	22	1	.06
5	15	1	.04	14	2	.08	18	1	.05
6	14	1	.04	14	2	.08	14	1	.04
7	14	2	.08	13	2	.07	14	1	.04
8	14	2	.08	12	2	.06	13	1	.04
9	13	2	.07	12	2	.06	12	1	.03
10	12	2	.06	11	2	.06	11	1	.03
11	11	2	.06	11	2	.06	11	1	.03
12	12	2	.06	10	2	.05	12	1	.03
13	11	2	.06	10	2	.05	12	1	.03
14	12	2	.06	10	2	.05	13	1	.04
15	47	8	1.3	10	2	.05	15	1	.04
16	116	30	9.5	10	3	.08	16	1	.04
17	113	14	4.3	10	3	.08	18	1	.05
18	79	12	2.7	10	3	.08	18	1	.05
19	130	8	2.9	11	4	.12	17	1	.05
20	67	2	.36	12	4	.13	17	1	.05
21	43	2	.23	10	4	.11	18	1	.05
22	35	2	.19	10	3	.08	20	1	.05
23	30	2	.16	8.5	3	.07	20	1	.05
24	27	2	.15	8.5	3	.07	22	1	.06
25	24	2	.13	8.5	2	.05	24	1	.06
26	24	1	.06	8.5	2	.05	24	1	.06
27	21	1	.06	9.2	2	.05	24	1	.06
28	20	1	.05	8.5	2	.05	25	1	.07
29	19	1	.05	--	--	--	36	1	.10
30	19	1	.05	--	--	--	37	1	.10
31	18	1	.05	--	--	--	28	1	.08
TOTAL	1038	--	23.17	317.7	--	1.96	601	--	1.75

10336640 MEEKS CREEK AT MEEKS BAY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	32	1	.09	50	3	.41	100	4	1.1
2	32	1	.09	68	8	1.5	106	4	1.1
3	24	0	0	75	7	1.4	103	7	1.9
4	22	0	0	74	16	3.2	103	6	1.7
5	22	1	.06	78	11	2.3	93	5	1.3
6	22	1	.06	86	8	1.9	99	4	1.1
7	21	0	0	104	7	2.0	96	5	1.3
8	23	1	.06	121	8	2.6	74	3	.60
9	25	2	.14	128	7	2.4	67	7	1.3
10	22	2	.12	120	5	1.6	78	7	1.5
11	22	2	.12	106	5	1.4	78	4	.84
12	25	2	.14	100	4	1.1	83	7	1.6
13	27	2	.15	86	3	.70	76	5	1.0
14	28	2	.15	83	3	.67	72	5	.97
15	32	2	.17	86	3	.70	64	4	.69
16	38	2	.21	74	2	.40	56	3	.45
17	42	2	.23	58	1	.16	52	6	.84
18	48	2	.26	47	1	.13	51	4	.55
19	40	2	.22	40	1	.11	47	3	.38
20	36	1	.10	36	2	.19	39	2	.21
21	38	1	.10	36	1	.10	36	2	.19
22	47	2	.25	46	1	.12	40	2	.22
23	55	3	.45	67	4	.72	40	2	.22
24	45	2	.24	86	9	2.1	35	2	.19
25	40	1	.11	97	7	1.8	32	2	.17
26	32	1	.09	117	6	1.9	29	2	.16
27	29	1	.08	137	7	2.6	26	2	.14
28	29	2	.16	132	8	2.9	25	2	.14
29	31	1	.08	107	4	1.2	27	2	.15
30	35	1	.09	86	2	.46	28	2	.15
31	--	--	--	90	3	.73	--	--	--
TOTAL	964	--	4.02	2621	--	39.50	1855	--	22.16

TOTAL DISCHARGE FOR PERIOD, OCT. 1, 1973 TO JUNE 30, 1974 (CFS-DAYS) 8787.38
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD, OCT. 1, 1973 TO JUNE 30, 1974 (TONS) 133.26

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1973 TO JUNE 1974

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
OCT.						
05...	1615	14.0	.02	3	.00	49
NOV.						
10...	1400	5.5	45	12	1.5	18
11...	1630	--	333	21	19	8
12...	1300	2.5	251	13	8.8	4
JAN.						
16...	0935	.0	130	35	12	48
APR.						
19...	0810	1.0	40	2	.22	100
MAY						
26...	0905	4.5	115	4	1.2	100

10336650 QUAIL LAKE CREEK NEAR HOMEWOOD, CALIF.

LOCATION.--Lat 39°04'34", long 120°09'06", in SW¼NW¼ sec.7, T.14 N., R.17 E., Placer County, Tahoe National Forest, at gaging station 93 ft (28 m) upstream from Highway 89, and 0.5 mi (0.8 km) southeast of Homewood.

DRAINAGE AREA.--0.95 mi^2 (2.46 km^2).

PERIOD OF RECORD.--Water temperatures: October 1971 to June 1974 (discontinued).
Sediment records: October 1971 to June 1974 (discontinued).

EXTREMES.--October 1973 to June 1974:
Sediment concentrations: Maximum daily, 16 mg/l Dec. 29; minimum daily, 0 mg/l on many days.
Sediment discharge: Maximum daily, 0.49 ton (0.44 tonnes) Dec. 29; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 16 mg/l Dec. 29, 1973; minimum daily, 0 mg/l on many days each year.
Sediment discharge: Maximum daily, 0.71 ton (0.64 tonnes) May 14, 15, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

TEMPERATURE (DEC. C) OF WATER, OCTOBER 1973 TO JUNE 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	8.0	---	---	---	---	---	2.5	11.0	---	---	---
2	9.5	---	---	---	---	---	3.0	4.0	---	---	---	---
3	---	---	---	1.0	---	---	4.5	5.5	12.0	---	---	---
4	---	---	3.0	---	---	---	---	5.0	7.5	---	---	---
5	---	---	---	---	---	1.5	2.5	3.0	11.5	---	---	---
6	---	5.0	---	---	0.5	---	---	---	11.5	---	---	---
7	7.0	---	---	---	---	---	---	---	11.0	---	---	---
8	---	8.0	---	---	---	---	4.5	6.0	11.0	---	---	---
9	---	---	---	---	---	---	3.0	5.5	9.0	---	---	---
10	---	6.0	---	---	---	---	6.5	3.0	13.0	---	---	---
11	---	6.0	---	2.5	---	---	4.0	6.0	13.0	---	---	---
12	---	4.0	3.5	---	2.0	---	2.5	4.0	14.0	---	---	---
13	---	2.0	---	---	---	3.5	---	5.5	14.0	---	---	---
14	---	---	---	---	---	---	---	3.5	14.0	---	---	---
15	10.0	---	---	2.5	---	---	---	3.0	10.0	---	---	---
16	---	---	---	2.5	---	---	6.0	5.0	---	---	---	---
17	---	---	2.5	2.0	---	---	6.0	5.0	10.0	---	---	---
18	---	---	---	2.5	---	---	4.0	4.0	13.0	---	---	---
19	---	---	---	2.0	---	---	1.5	3.5	---	---	---	---
20	---	---	---	---	0.0	2.0	5.0	6.0	10.0	---	---	---
21	---	---	---	---	---	---	2.5	7.0	---	---	---	---
22	---	---	---	2.5	---	---	5.5	5.0	---	---	---	---
23	---	---	---	---	---	---	3.5	8.5	---	---	---	---
24	4.5	---	---	---	---	---	1.5	8.5	---	---	---	---
25	---	---	---	---	---	---	4.0	9.5	13.0	---	---	---
26	---	---	---	---	---	---	2.0	5.5	10.5	---	---	---
27	---	---	---	---	2.0	---	4.0	9.0	---	---	---	---
28	---	4.0	---	---	---	1.5	3.0	9.0	14.0	---	---	---
29	---	---	1.0	---	---	---	6.5	9.5	---	---	---	---
30	---	---	---	2.5	---	---	3.0	9.5	---	---	---	---
31	---	---	---	---	---	---	---	10.0	---	---	---	---
MONTH	---	---	---	---	---	---	---	6.0	---	---	---	---

10336650 QUAIL LAKE CREEK NEAR HOMEWOOD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	.32	2	0	.36	1	0	1.0	1	0
2	.32	3	0	.42	1	0	1.2	1	0
3	.36	2	0	.36	1	0	1.0	1	0
4	.36	2	0	.36	1	0	.95	1	0
5	.36	1	0	.42	3	0	.76	1	0
6	.36	1	0	1.2	3	.01	.76	1	0
7	.54	1	0	2.1	5	.03	.76	1	0
8	.54	1	0	.95	2	.01	.67	1	0
9	.48	1	0	.85	5	.01	.67	2	0
10	.42	1	0	1.4	5	.02	.67	2	0
11	.42	0	0	4.0	9	.10	.67	2	0
12	.42	0	0	11	13	.42	.67	2	0
13	.36	0	0	7.5	3	.06	.67	2	0
14	.36	0	0	4.8	1	.01	.67	2	0
15	.36	0	0	2.8	1	.01	.67	2	0
16	.36	0	0	2.7	1	.01	.60	2	0
17	.36	0	0	3.0	1	.01	1.0	4	.01
18	.36	0	0	2.8	1	.01	1.0	2	.01
19	.36	0	0	2.1	1	.01	.85	2	0
20	.42	0	0	1.8	1	0	.76	2	0
21	.42	0	0	1.6	1	0	.76	2	0
22	.48	1	0	1.4	1	0	.76	1	0
23	.67	0	0	1.2	1	0	.76	1	0
24	.54	0	0	1.2	1	0	.76	1	0
25	.48	0	0	1.2	0	0	.67	1	0
26	.42	0	0	.95	0	0	.67	2	0
27	.42	0	0	.85	0	0	1.0	2	.01
28	.42	0	0	.85	0	0	1.8	3	.01
29	.42	1	0	.85	0	0	10	16	.49
30	.36	1	0	.76	0	0	6.5	6	.11
31	.36	1	0	--	--	--	4.0	3	.03
TOTAL	12.83	--	0	61.78	--	.72	43.68	--	.67

	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	3.2	2	.02	1.8	1	0	1.0	2	.01
2	2.6	2	.01	1.6	1	0	1.8	1	0
3	2.1	2	.01	1.6	1	0	2.0	1	.01
4	2.0	2	.01	1.4	1	0	2.0	0	0
5	1.6	2	.01	1.4	1	0	1.6	0	0
6	1.6	2	.01	1.2	1	0	1.4	0	0
7	1.5	2	.01	1.2	1	0	1.2	0	0
8	1.4	2	.01	1.0	1	0	1.2	0	0
9	1.2	2	.01	1.0	1	0	1.0	0	0
10	1.0	2	.01	.95	1	0	1.0	1	0
11	.95	2	.01	.95	1	0	.95	1	0
12	.95	2	.01	.95	1	0	1.0	1	0
13	.95	2	.01	.95	1	0	1.0	1	0
14	1.3	4	.02	.85	1	0	1.0	1	0
15	4.6	5	.06	.85	1	0	1.4	1	0
16	6.1	5	.08	.85	1	0	1.6	1	0
17	9.7	5	.13	.85	1	0	1.6	1	0
18	9.2	7	.17	.76	1	0	1.6	1	0
19	12	6	.19	.85	1	0	1.6	1	0
20	8.2	2	.04	.94	1	0	1.6	1	0
21	5.4	1	.01	1.0	1	0	1.6	1	0
22	4.0	1	.01	.90	1	0	1.8	1	0
23	3.4	1	.01	.85	1	0	2.0	1	.01
24	3.0	1	.01	.76	2	0	2.1	1	.01
25	2.7	1	.01	.67	2	0	2.2	0	0
26	2.6	1	.01	.60	2	0	2.4	0	0
27	2.2	1	.01	.67	2	0	2.7	0	0
28	2.1	1	.01	.67	2	0	2.7	0	0
29	2.0	1	.01	--	--	--	4.2	2	.02
30	1.8	1	0	--	--	--	3.8	1	.01
31	1.6	1	0	--	--	--	3.2	1	.01
TOTAL	102.95	--	.92	28.07	--	0	56.25	--	.08

10336650 QUAIL LAKE CREEK NEAR HOMEWOOD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	3.4	1	.01	6.1	3	.05	12	3	.10
2	3.2	1	.01	7.7	2	.04	12	3	.10
3	2.6	0	0	9.4	4	.10	13	3	.11
4	2.2	1	.01	10	4	.11	12	3	.10
5	2.1	2	.01	11	4	.12	12	3	.10
6	2.1	1	.01	12	7	.23	8.1	3	.07
7	2.1	1	.01	14	7	.26	2.8	2	.02
8	2.2	1	.01	16	9	.39	3.0	3	.02
9	2.2	1	.01	16	7	.30	6.1	5	.08
10	2.1	1	.01	15	6	.24	8.2	5	.11
11	2.1	1	.01	15	5	.20	9.4	4	.10
12	2.2	1	.01	14	3	.11	11	7	.21
13	2.4	1	.01	13	3	.11	9.9	5	.13
14	2.6	1	.01	12	2	.06	9.4	5	.13
15	2.8	2	.02	12	3	.10	9.9	3	.08
16	3.6	2	.02	11	2	.06	8.7	3	.07
17	4.2	1	.01	9.9	2	.05	7.7	3	.06
18	4.6	1	.01	8.0	2	.04	7.0	2	.04
19	4.0	1	.01	6.5	2	.04	6.1	2	.03
20	4.2	1	.01	5.6	1	.02	5.2	2	.03
21	4.4	1	.01	6.1	3	.05	4.8	2	.03
22	5.2	2	.03	8.2	2	.04	4.6	2	.02
23	5.9	1	.02	9.4	3	.08	4.6	2	.02
24	5.2	1	.01	10	2	.05	4.2	2	.02
25	4.2	1	.01	12	6	.19	3.8	2	.02
26	3.8	0	0	15	7	.28	3.4	2	.02
27	3.2	2	.02	15	7	.28	3.2	2	.02
28	3.4	1	.01	15	5	.20	3.0	2	.02
29	3.8	2	.02	14	4	.15	2.8	2	.02
30	4.6	3	.04	12	3	.10	2.8	2	.02
31	--	--	--	12	4	.13	--	--	--
TOTAL	100.6	--	.38	352.9	--	4.18	210.7	--	1.90

TOTAL DISCHARGE FOR PERIOD OCT. 1, 1973 TO JUNE 30, 1974 (CFS-DAYS) 969.76
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD OCT. 1, 1973 to JUNE 30, 1974 (TONS) 8.85

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1973 TO JUNE 1974

DATE	TIME	TEMPERA-TURE (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
OCT.						
02...	1300	5.5	.32	3	.00	100
NOV.						
12...	0820	4.0	13	16	.56	36
JAN.						
17...	1600	2.0	11	5	.15	45
APR.						
10...	1455	6.5	2.0	1	.01	100
21...	0325	2.5	4.0	1	.01	100
27...	1655	4.0	3.2	2	.02	100
29...	0943	3.0	3.2	1	.01	100
MAY						
05...	1415	3.0	12	6	.19	100
07...	1265	--	12	6	.19	100
08...	1550	6.0	16	13	.56	29
21...	0950	5.5	14	6	.23	42

10336670 WARD CREEK NEAR TAHOE PINES, CALIF.

LOCATION.--Lat 39°08'09", long 120°13'11", in SE¼NW¼ sec.21, T.15 N., R.16 E., Placer County, Tahoe National Forest, at gaging station 0.5 mi (0.8 km) upstream from confluence with tributary, 3.9 mi (6.3 km) northwest of Tahoe Pines, and 4.8 mi (7.7 km) southwest of Tahoe City.

DRAINAGE AREA.--2.03 mi^2 (5.26 km^2).

PERIOD OF RECORD.--Water temperatures: October 1972 to current year.
Sediment records: October 1972 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 815 mg/l July 9; minimum daily, 0 mg/l on many days.
Sediment discharge: Maximum daily, 219 tons (199 tonnes) July 9; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 815 mg/l July 9, 1974; minimum daily, 0 mg/l on many days each year.
Sediment discharge: Maximum daily, 219 tons (199 tonnes) July 9, 1974; minimum daily, 0 tons (0 tonnes) on many days each year.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.5	4.5	---	---	---	---	---	3.5	---	10.0	---	---
2	---	---	---	0.0	---	---	---	4.0	---	---	15.0	---
3	---	---	---	---	---	---	---	1.0	3.0	---	---	---
4	---	---	---	---	---	---	2.5	---	3.0	---	---	---
5	---	---	2.0	---	0.0	---	---	---	3.0	9.0	---	15.0
6	---	---	---	---	---	2.0	---	---	---	---	---	---
7	3.0	---	---	---	2.0	---	---	---	3.0	---	---	---
8	---	---	---	---	---	---	---	1.5	---	5.5	---	---
9	---	---	---	---	---	---	---	1.5	---	5.5	16.0	---
10	---	---	---	---	---	---	---	---	---	6.5	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	1.5	---	---	1.0	---	3.0	2.0	3.5	12.0	---	---
13	---	---	---	---	---	---	---	2.5	6.5	---	---	---
14	---	---	---	1.0	---	---	---	2.0	4.5	---	---	---
15	9.5	---	---	1.5	---	---	---	---	5.0	---	---	---
16	---	---	---	---	---	---	---	---	---	---	7.0	---
17	---	---	---	---	---	---	3.0	2.0	---	---	---	---
18	---	---	---	1.5	---	---	1.5	---	---	9.5	---	13.5
19	---	---	---	---	---	---	---	---	5.0	---	---	---
20	---	---	2.0	---	---	---	1.5	2.0	8.0	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	0.0	---	---	2.0	7.0	---	---	---
23	---	---	---	1.5	---	---	1.5	2.0	---	---	---	---
24	---	---	---	---	---	---	---	3.0	9.0	---	---	---
25	0.0	---	---	---	---	---	---	2.5	---	---	---	---
26	---	---	---	---	---	---	2.0	2.0	---	---	14.5	---
27	---	1.5	---	---	---	---	---	1.5	9.5	---	---	---
28	---	---	1.0	2.0	---	---	---	3.0	---	13.5	---	---
29	---	---	---	---	---	---	---	2.0	---	---	---	---
30	---	---	---	---	---	---	---	1.5	---	---	---	---
31	---	---	---	---	---	---	---	---	---	11.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

10336670 WARD CREEK NEAR TAHOE PINES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.34	1	0	.93	0	0	3.5	2	.02
2	.34	1	0	.81	0	0	3.3	2	.02
3	.34	1	0	.81	0	0	3.3	2	.02
4	.34	1	0	.81	0	0	3.3	2	.02
5	.38	1	0	.93	0	0	3.3	2	.02
6	.38	1	0	3.8	2	.02	3.3	2	.02
7	.75	1	0	22	220	18	3.3	2	.02
8	.75	1	0	4.3	4	.05	3.1	2	.02
9	.75	3	.01	8.5	35	1.7	3.1	2	.02
10	.58	1	0	29	211	26	3.1	2	.02
11	.58	1	0	89	528	131	3.1	2	.02
12	.58	1	0	61	223	67	3.0	2	.02
13	.63	0	0	15	10	.41	3.0	3	.02
14	.58	0	0	11	6	.18	2.9	3	.02
15	.53	0	0	9.8	5	.13	2.8	3	.02
16	.53	0	0	8.2	4	.09	2.8	3	.02
17	.53	0	0	7.8	3	.06	3.8	4	.04
18	.48	0	0	7.0	3	.06	3.3	3	.03
19	.53	0	0	5.7	3	.05	3.1	2	.02
20	.81	1	0	5.4	3	.04	2.9	1	.01
21	.63	0	0	4.8	3	.04	3.1	1	.01
22	1.4	5	.02	4.5	3	.04	2.8	1	.01
23	1.4	2	.01	4.5	2	.02	2.8	1	.01
24	2.3	1	.01	4.2	2	.02	2.6	1	.01
25	1.2	1	0	4.1	2	.02	2.9	1	.01
26	1.2	1	0	4.0	2	.02	2.8	1	.01
27	1.2	1	0	3.8	2	.02	2.8	1	.01
28	1.0	0	0	4.0	2	.02	3.1	2	.02
29	.87	0	0	4.0	2	.02	29	51	5.1
30	.87	0	0	3.5	2	.02	9.0	7	.17
31	.93	0	0	---	---	---	6.0	6	.10
MONTH	23.73	---	.05	333.19	---	245.03	130.2	---	5.88

	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	4.8	5	.06	5.1	1	.01	3.1	1	.01
2	4.5	4	.05	4.5	1	.01	3.4	1	.01
3	4.2	3	.03	4.2	2	.02	3.5	1	.01
4	4.0	2	.02	4.2	2	.02	3.2	2	.02
5	4.0	1	.01	4.0	2	.02	3.1	3	.03
6	3.8	0	0	4.0	1	.01	2.9	5	.04
7	3.5	0	0	3.8	0	0	2.9	5	.04
8	3.3	0	0	3.8	0	0	2.8	5	.04
9	3.3	0	0	3.8	0	0	2.8	5	.04
10	3.1	0	0	3.8	0	0	2.8	5	.04
11	3.1	0	0	3.8	0	0	2.6	5	.04
12	2.9	0	0	3.8	0	0	2.6	5	.04
13	2.9	0	0	3.5	0	0	2.4	5	.03
14	5.3	7	.22	3.5	0	0	2.6	5	.04
15	24	16	1.1	3.3	0	0	3.1	5	.04
16	15	6	.35	3.3	0	0	3.3	5	.04
17	22	9	.68	3.3	0	0	3.3	5	.04
18	21	14	1.1	3.2	0	0	3.1	5	.04
19	20	6	.32	3.1	0	0	2.9	5	.04
20	14	2	.08	3.1	0	0	3.1	5	.04
21	11	2	.06	2.9	0	0	3.8	4	.04
22	9.0	1	.02	2.9	1	.01	4.2	3	.03
23	8.2	1	.02	2.8	1	.01	4.5	3	.04
24	7.8	1	.02	2.8	1	.01	5.1	2	.03
25	7.4	1	.02	2.9	1	.01	5.1	2	.03
26	6.3	0	0	2.9	1	.01	4.0	1	.01
27	6.0	0	0	2.9	1	.01	4.0	1	.01
28	5.7	0	0	2.9	1	.01	5.1	2	.03
29	5.7	0	0	---	---	---	4.8	1	.01
30	5.4	0	0	---	---	---	6.3	1	.02
31	5.1	0	0	---	---	---	4.8	1	.01
MONTH	246.3	---	4.16	98.1	---	.16	111.2	---	.93

10336670 WARD CREEK NEAR TAHOE PINES, CALIF.--Continued

	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	3.8	0	0	14	9	.34	55	30	5.4
2	3.6	0	0	17	20	.92	56	32	4.8
3	3.3	1	.01	18	20	.97	56	28	4.2
4	3.3	1	.01	18	20	.97	49	22	2.9
5	3.5	1	.01	20	25	1.4	53	26	3.7
6	3.5	1	.01	24	29	2.2	54	25	3.6
7	3.5	1	.01	32	39	4.5	50	19	2.6
8	4.0	1	.01	37	32	3.6	43	17	2.0
9	4.2	1	.01	38	36	4.3	45	20	2.4
10	3.8	1	.01	36	21	2.0	52	22	3.1
11	4.0	1	.01	35	22	2.1	58	24	3.8
12	4.5	1	.01	33	15	1.3	58	22	3.4
13	5.1	1	.01	31	13	1.1	57	20	3.1
14	6.0	1	.02	32	17	1.5	56	15	2.3
15	7.8	1	.02	30	14	1.1	48	11	1.4
16	8.2	1	.02	25	8	.54	43	10	1.2
17	9.4	1	.03	20	4	.22	40	11	1.2
18	9.0	1	.02	16	4	.17	37	9	.90
19	6.6	1	.02	14	4	.15	32	4	.35
20	7.0	1	.02	13	7	.25	29	4	.31
21	8.6	2	.05	17	12	.55	29	6	.47
22	12	2	.06	23	13	.81	30	9	.73
23	11	2	.06	29	20	1.6	29	9	.70
24	7.8	1	.02	36	21	2.4	27	6	.44
25	6.6	1	.02	42	30	4.2	25	5	.34
26	6.0	0	0	57	43	8.3	23	4	.25
27	5.7	0	0	63	47	9.9	20	4	.22
28	6.0	0	0	66	47	8.4	22	5	.30
29	6.6	2	.04	52	19	2.7	24	6	.39
30	9.8	5	.13	48	17	2.2	24	7	.45
31	---	---	---	50	24	3.2	---	---	---
MONTH	184.2	---	.64	986	---	73.89	1224	---	56.95

	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	23	6	.37	3.8	2	.02	.78	2	0
2	21	5	.28	3.5	2	.02	.78	2	0
3	19	5	.26	3.3	2	.02	.78	2	0
4	17	5	.23	6.7	59	3.7	.71	2	0
5	16	4	.17	3.8	10	.10	.71	2	0
6	14	3	.11	2.9	7	.05	.71	2	0
7	14	3	.11	2.6	6	.04	.71	2	0
8	24	39	3.7	2.4	5	.03	.65	2	0
9	89	815	219	2.2	5	.03	.65	2	0
10	35	51	5.4	2.0	4	.02	.65	2	0
11	22	18	1.1	1.9	3	.02	.65	1	0
12	18	12	.58	1.7	3	.01	.65	1	0
13	16	10	.43	1.6	2	.01	.65	1	0
14	14	6	.23	1.6	2	.01	.59	1	0
15	12	4	.13	1.5	1	0	.59	1	0
16	11	3	.09	1.4	1	0	.54	1	0
17	10	3	.08	1.3	1	0	.54	1	0
18	9.4	3	.08	1.3	1	0	.54	1	0
19	9.0	3	.07	1.2	1	0	.54	1	0
20	8.2	3	.07	1.2	1	0	.49	1	0
21	7.8	3	.06	1.1	1	0	.49	1	0
22	7.0	3	.06	1.1	1	0	.49	1	0
23	6.6	3	.05	1.0	1	0	.49	0	0
24	6.0	2	.03	1.0	1	0	.49	0	0
25	5.7	2	.03	.92	1	0	.49	0	0
26	5.4	2	.03	.92	1	0	.49	0	0
27	5.1	2	.03	.92	2	0	.49	0	0
28	4.5	2	.02	.92	4	.01	.49	0	0
29	4.2	2	.02	.85	3	.01	.49	0	0
30	4.0	1	.01	.85	3	.01	.49	0	0
31	3.8	1	.01	.85	3	.01	---	---	---
MONTH	461.7	---	232.84	58.33	---	4.12	17.81	---	0
YEAR	3874.76		624.65						

10336670 WARD CREEK NEAR TAHOE PINES, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
OCT.								
01...	1425	10.5	.34	1	.01	--	100	--
NOV.								
10...	1400	--	24	196	13	--	85	--
11...	1200	--	79	466	99	--	29	--
11...	2045	--	100	723	195	47	--	68
12...	1555	1.5	32	54	4.7	--	49	--
DEC.								
05...	1055	1.5	3.3	2	.02	--	100	--
JAN.								
15...	1550	1.5	23	7	.43	--	33	--
APR.								
29...	1110	--	6.0	1	.02	--	100	--
MAY								
02...	2130	1.0	19	68	3.5	--	6	--
03...	0130	1.0	18	10	.49	--	13	--
03...	0525	1.0	16	9	.39	--	24	--
03...	0930	1.5	14	7	.26	--	100	--
24...	1810	1.5	54	52	7.6	--	23	--
27...	1910	1.5	91	127	31	--	14	--
29...	1630	2.0	62	27	4.5	--	20	--
JULY								
08...	1515	6.0	42	76	8.6	--	84	--
09...	0945	5.5	95	855	219	--	22	--
09...	1515	6.0	141	1860	708	--	13	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 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
OCT.							
01...	--	--	--	--	--	--	--
NOV.							
10...	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--
11...	--	87	--	100	--	--	--
12...	66	--	82	--	91	96	100
DEC.							
05...	--	--	--	--	--	--	--
JAN.							
15...	--	--	--	--	--	--	--
APR.							
29...	--	--	--	--	--	--	--
MAY							
02...	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--
24...	39	--	66	--	97	100	--
27...	24	--	39	--	62	83	100
29...	--	--	--	--	--	--	--
JULY							
08...	--	--	--	--	--	--	--
09...	36	--	59	--	81	92	94
09...	20	--	33	--	54	76	91

10336672 WARD CREEK TRIBUTARY NEAR TAHOE PINES, CALIF.

LOCATION.--Lat 39°08'29", long 120°13'06", in SE¼SW¼ sec.16, T.15 N., R.16 E., Placer County, at gaging station 0.3 mi (0.5 km) upstream from confluence with Ward Creek, 4.0 mi (6.4 km) northwest of Tahoe Pines, and 4.5 mi (7.2 km) southwest of Tahoe City.

DRAINAGE AREA.--0.91 mi^2 (2.36 km^2).

PERIOD OF RECORD.--Water temperatures: October 1972 to current year.
Sediment records: October 1972 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 411 mg/l Nov. 11; minimum daily, 0 mg/l on many days.
Sediment discharge: Maximum daily, 74 tons (64 tonnes) Nov. 11; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 411 mg/l Nov. 11, 1973; minimum daily, 0 mg/l on many days each year.
Sediment discharge: Maximum daily, 74 tons (64 tonnes) Nov. 11, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	4.5	---	---	---	---	---	3.5	---	12.5	---	
2	---	---	---	0.5	---	---	---	3.5	---	---	18.0	
3	---	---	---	---	---	---	---	2.5	4.0	---	---	
4	---	---	---	---	---	1.5	3.0	---	4.0	---	---	
5	---	---	2.0	---	1.0	---	---	---	3.5	11.0	---	
6	---	---	---	---	---	1.5	---	---	---	---	---	
7	4.5	---	---	---	1.0	---	---	---	4.0	---	---	
8	---	---	---	---	---	---	---	2.0	---	6.5	---	
9	---	---	---	---	---	---	---	2.5	---	6.0	18.0	
10	---	---	---	---	---	---	---	2.5	---	8.5	---	
11	---	---	---	---	---	---	---	---	5.5	---	---	
12	---	1.5	---	---	1.5	---	3.0	2.5	3.5	14.0	---	
13	---	---	---	---	---	---	---	3.0	7.5	---	---	
14	---	---	---	1.0	---	---	---	3.0	6.0	---	---	
15	---	---	---	2.0	---	---	---	---	5.5	---	---	
16	---	---	---	---	---	---	---	---	---	---	11.0	
17	---	---	---	---	---	---	3.0	---	---	---	---	
18	---	---	---	1.5	---	---	2.0	---	---	---	---	
19	---	---	---	---	---	---	---	---	5.5	---	---	
20	---	---	2.0	---	---	---	2.0	4.0	8.0	---	---	
21	---	---	---	---	---	---	---	---	---	---	---	
22	---	---	---	---	0.0	---	---	3.0	7.5	---	---	
23	---	---	---	---	---	---	2.0	3.0	---	---	---	
24	---	---	---	---	---	---	---	4.0	9.0	---	---	
25	1.5	---	---	---	---	---	---	4.0	---	---	---	
26	---	---	---	---	---	---	2.0	3.0	---	---	17.5	
27	---	1.5	---	---	---	---	---	3.0	---	---	---	
28	---	---	1.0	2.0	---	---	---	3.0	---	17.0	---	
29	---	---	---	---	---	---	---	3.0	---	---	---	
30	---	---	---	---	---	---	---	4.5	---	---	---	
31	---	---	---	---	---	---	---	---	---	14.0	---	
MONTH	---	---	---	---	---	---	---	---	---	---	---	

10336672 WARD CREEK TRIBUTARY NEAR TAHOE PINES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.15	0	0	2.3	3	.02
2	0	0	0	.11	0	0	2.1	3	.02
3	.01	1	0	.05	0	0	1.8	3	.01
4	.01	1	0	.02	0	0	1.6	3	.01
5	.02	1	0	.01	0	0	1.6	3	.01
6	0	0	0	2.1	3	0	1.6	3	.01
7	.01	3	0	12	82	3.4	1.6	3	.01
8	.01	1	0	4.5	13	.16	1.5	3	.01
9	0	1	0	6.0	15	.44	1.5	3	.01
10	0	0	0	19	132	10	1.5	2	.01
11	0	0	0	63	411	74	1.5	2	.01
12	0	0	0	38	221	45	1.5	2	.01
13	0	0	0	9.4	10	.25	1.5	2	.01
14	0	0	0	6.3	4	.07	1.5	2	.01
15	0	0	0	5.3	3	.04	1.5	2	.01
16	0	0	0	4.4	2	.02	1.5	2	.01
17	0	0	0	4.0	2	.02	1.9	2	.01
18	0	0	0	3.8	2	.02	1.6	1	0
19	0	0	0	3.4	1	.01	1.5	1	0
20	0	0	0	3.3	1	.01	1.4	1	0
21	0	0	0	3.0	1	.01	1.4	1	0
22	.03	1	0	2.7	1	.01	1.3	1	0
23	.08	0	0	2.6	1	.01	1.2	1	0
24	.01	0	0	2.4	2	.01	1.2	1	0
25	.03	0	0	2.3	2	.01	1.2	1	0
26	.05	0	0	2.1	3	.02	1.2	1	0
27	.08	0	0	2.0	3	.02	1.2	1	0
28	.15	0	0	2.0	3	.02	1.6	1	0
29	.05	0	0	2.0	3	.02	8.9	45	1.3
30	.03	0	0	2.0	3	.02	4.4	9	.11
31	.03	0	0	--	--	--	3.3	4	.04
TOTAL	.60	--	0	207.94	--	133.59	59.4	--	1.64

	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	3	.02	2.0	2	.01	1.4	1	0
2	2.6	3	.02	1.8	1	0	1.5	1	0
3	2.4	3	.02	1.8	1	0	1.4	1	0
4	2.3	3	.02	1.7	0	0	1.3	1	0
5	2.1	3	.02	1.7	0	0	1.2	1	0
6	2.0	3	.02	1.6	0	0	1.2	1	0
7	1.9	4	.02	1.5	0	0	1.1	1	0
8	1.8	5	.02	1.5	0	0	1.1	1	0
9	1.8	6	.03	1.4	0	0	1.0	1	0
10	1.7	5	.02	1.4	0	0	1.0	1	0
11	1.7	4	.02	1.3	0	0	1.0	1	0
12	1.6	3	.01	1.3	0	0	.98	1	0
13	1.6	3	.01	1.2	0	0	.98	2	.01
14	2.6	8	.09	1.2	0	0	1.1	2	.01
15	12	29	1.0	1.2	0	0	1.3	2	.01
16	7.6	6	.12	1.1	0	0	1.5	2	.01
17	8.8	9	.21	1.1	1	0	1.5	2	.01
18	9.1	9	.30	1.1	1	0	1.5	2	.01
19	9.4	7	.18	1.1	1	0	1.5	2	.01
20	5.9	4	.06	1.1	1	0	1.5	2	.01
21	4.5	4	.05	1.0	1	0	1.8	2	.01
22	3.9	4	.04	1.0	1	0	2.0	2	.01
23	3.4	4	.04	1.0	1	0	2.2	1	.01
24	3.0	4	.03	1.0	1	0	2.6	1	.01
25	2.9	4	.03	1.0	1	0	3.2	1	.01
26	2.6	3	.02	1.0	1	0	2.7	1	.01
27	2.5	3	.02	.98	1	0	2.5	1	.01
28	2.3	3	.01	1.0	1	0	2.3	1	.01
29	2.3	2	.01	--	--	--	2.5	1	.01
30	2.2	2	.01	--	--	--	2.4	1	.01
31	2.0	2	.01	--	--	--	2.2	1	.01
TOTAL	113.4	--	2.48	36.08	--	.01	51.46	--	.19

10336672 WARD CREEK TRIBUTARY NEAR TAHOE PINES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.0	1	.01	10	8	.22	23	15	.93
2	1.8	1	0	12	12	.39	25	15	1.0
3	1.8	1	0	14	17	.64	25	13	.88
4	1.8	1	0	14	20	.76	24	11	.71
5	1.9	1	.01	14	23	.87	24	13	.84
6	1.8	1	0	16	26	1.4	24	13	.84
7	1.8	1	0	22	58	4.5	20	11	.59
8	1.9	1	.01	24	28	2.1	16	8	.35
9	2.0	1	.01	25	29	2.3	18	8	.39
10	1.9	1	.01	23	23	1.4	20	10	.54
11	2.0	1	.01	22	17	1.0	22	16	.95
12	2.2	1	.01	19	12	.62	23	16	.99
13	2.5	1	.01	16	9	.39	22	15	.89
14	2.6	2	.01	18	12	.58	23	14	.87
15	2.4	2	.01	16	5	.22	18	8	.39
16	4.7	2	.03	13	5	.18	16	7	.30
17	5.7	2	.03	10	7	.19	15	7	.28
18	6.3	2	.03	8.0	6	.13	14	6	.23
19	4.7	1	.01	6.6	5	.09	11	3	.09
20	4.4	0	0	5.9	4	.06	10	4	.11
21	4.7	1	.01	7.3	12	.24	11	6	.18
22	7.0	2	.04	12	17	.55	12	7	.23
23	7.8	2	.04	16	15	.65	11	6	.18
24	5.5	1	.01	20	16	.86	10	4	.11
25	4.4	1	.01	23	24	1.9	8.8	3	.07
26	3.6	0	0	29	70	7.4	7.6	3	.06
27	3.4	0	0	33	44	4.8	7.0	3	.06
28	3.6	0	0	30	26	2.4	7.8	3	.06
29	3.9	2	.02	23	11	.68	8.8	4	.10
30	5.5	3	.04	20	10	.54	8.6	4	.09
31	--	--	--	20	13	.70	--	--	--
TOTAL	105.6	--	.37	541.8	--	38.76	485.6	--	13.31

	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	8.6	4	.09	.50	0	0	.01	0	0
2	7.3	3	.06	.33	1	0	.01	0	0
3	6.3	3	.05	.33	1	0	.01	0	0
4	5.9	3	.05	1.2	6	.03	.01	0	0
5	5.3	2	.03	.91	3	.01	.01	0	0
6	4.9	2	.03	.56	2	0	.01	0	0
7	4.4	2	.02	.44	1	0	.01	0	0
8	7.9	21	.64	.38	1	0	0	0	0
9	38	121	15	.33	1	0	0	0	0
10	17	17	.89	.28	1	0	0	0	0
11	9.4	3	.08	.23	1	0	0	0	0
12	7.3	2	.04	.19	1	0	0	0	0
13	6.1	2	.03	.19	1	0	0	0	0
14	5.1	2	.03	.19	1	0	0	0	0
15	4.5	2	.02	.15	1	0	0	0	0
16	3.9	1	.01	.15	1	0	0	0	0
17	3.6	1	.01	.11	1	0	0	0	0
18	3.2	1	.01	.11	1	0	0	0	0
19	2.9	1	.01	.11	1	0	0	0	0
20	2.6	1	.01	.11	1	0	0	0	0
21	2.4	1	.01	.11	0	0	0	0	0
22	2.0	1	.01	.08	0	0	0	0	0
23	1.8	1	0	.08	0	0	0	0	0
24	1.7	0	0	.06	0	0	0	0	0
25	1.5	0	0	.05	0	0	0	0	0
26	1.2	0	0	.05	0	0	0	0	0
27	1.1	0	0	.03	0	0	0	0	0
28	1.0	0	0	.03	0	0	0	0	0
29	.77	0	0	.02	0	0	0	0	0
30	.70	0	0	.02	0	0	0	0	0
31	.66	0	0	.02	0	0	--	--	--
TOTAL	169.03	--	17.13	7.34	--	.04	.07	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1778.32
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 207.52

10336672 WARD CREEK TRIBUTARY NEAR TAHOE PINES, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
NOV.								
10...	1330	--	16	57	2.5	--	75	--
11...	1130	--	58	388	61	--	43	--
11...	2030	--	85	807	185	61	--	78
12...	1445	1.5	20	55	3.0	--	37	--
DEC.								
05...	0940	2.0	1.6	3	.01	--	100	--
JAN.								
15...	1620	2.0	14	25	.94	--	43	--
APR.								
29...	1015	--	3.6	0	.00	--	100	--
MAY								
24...	1745	2.5	29	42	3.3	--	44	--
27...	1955	2.0	44	57	6.8	--	42	--
JULY								
09...	1015	6.0	37	109	11	--	56	--
09...	1600	6.5	54	197	29	--	48	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.								
10...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	89	--	96	--	100	--	--
12...	--	--	--	--	--	--	--	--
DEC.								
05...	--	--	--	--	--	--	--	--
JAN.								
15...	--	--	--	--	--	--	--	--
APR.								
29...	--	--	--	--	--	--	--	--
MAY								
24...	54	--	73	--	100	--	--	--
27...	62	--	81	--	96	--	100	--
JULY								
09...	--	--	--	--	--	--	--	--
09...	64	--	78	--	91	--	99	100

10336676 WARD CREEK AT HIGHWAY 89, NEAR TAHOE PINES, CALIF.

LOCATION.--Lat 39°07'56", long 120°09'24", in NW¼SE¼ sec.24, T.15 N., R.16 E., Placer County, Tahoe National Forest, at gaging station 165 ft (50 m) downstream from Highway 89 bridge, 2.1 mi (3.4 km) north of Tahoe Pines, and 2.6 mi (4.2 km) southwest of Tahoe City.

DRAINAGE AREA.--9.70 mi^2 (25.1 km^2).

PERIOD OF RECORD.--Water temperatures: October 1972 to current year.
Sediment records: October 1972 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 481 mg/l Nov. 12; minimum daily, 0 mg/l on many days.
Sediment discharge: Maximum daily, 646 tons (586 tonnes) Nov. 12; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 481 mg/l Nov. 12, 1973; minimum, 0 mg/l on many days each year.
Sediment discharge: Maximum daily, 646 tons (586 tonnes) Nov. 12, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.5	---	---	---	---	0.5	---	3.0	8.0	14.0	19.0	---
2	---	3.0	---	---	---	---	3.0	3.5	---	---	17.0	---
3	---	---	---	0.5	---	---	---	2.0	8.0	---	---	---
4	---	---	0.0	---	---	---	5.0	8.0	7.0	---	---	---
5	---	---	---	---	0.5	1.5	5.0	3.0	5.0	---	---	16.0
6	---	---	---	---	---	---	---	---	9.5	---	---	---
7	---	---	---	---	0.0	---	---	3.0	9.0	---	---	---
8	---	5.0	---	0.0	---	---	6.0	3.0	---	8.0	---	---
9	---	---	---	---	---	---	3.5	6.5	5.0	7.5	---	---
10	---	4.0	---	---	---	---	7.5	3.0	9.0	6.5	18.5	---
11	---	5.0	---	---	---	---	5.5	7.0	9.0	---	---	---
12	---	---	---	---	1.5	---	7.0	4.0	10.0	---	---	---
13	---	2.0	---	---	---	4.0	---	2.0	6.5	---	---	---
14	---	---	---	---	---	---	5.5	5.5	8.5	---	---	---
15	9.0	---	---	2.0	---	---	---	5.5	5.0	---	---	---
16	---	---	---	2.5	---	---	8.0	6.0	6.0	---	14.0	---
17	---	---	1.0	2.0	---	---	2.0	4.5	10.5	---	---	---
18	---	---	---	1.5	---	---	5.5	5.0	11.0	---	---	13.0
19	---	---	---	1.5	---	---	2.0	6.5	9.0	---	---	---
20	---	0.5	1.5	1.5	---	---	1.5	9.0	6.0	---	---	---
21	---	---	---	---	---	---	1.5	10.0	---	---	---	---
22	5.5	---	---	---	0.0	---	2.5	9.0	12.0	---	---	---
23	2.5	---	---	2.0	---	---	4.0	7.0	---	---	---	---
24	---	---	---	---	---	---	1.0	6.0	12.5	---	---	---
25	4.5	---	---	---	---	---	6.0	9.0	13.0	---	---	---
26	---	---	---	---	---	5.0	4.0	3.0	6.0	---	12.5	---
27	---	1.0	---	---	1.5	2.0	7.0	5.0	14.0	---	---	---
28	---	---	---	2.0	---	---	5.5	6.0	---	18.5	---	---
29	---	---	0.0	---	---	---	7.5	6.5	---	---	---	---
30	---	---	---	---	---	---	3.0	7.5	---	---	---	---
31	---	---	---	---	---	---	---	8.5	---	---	---	---
MONTH	---	---	---	---	---	---	4.5	5.5	---	---	---	---

10336676 WARD CREEK AT HIGHWAY 89, NEAR TAHOE PINES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	1.4	1	0	2.1	0	0	18	2	.10
2	1.4	1	0	2.1	0	0	20	2	.11
3	1.6	1	0	1.9	0	0	16	2	.09
4	1.6	0	0	1.8	0	0	14	2	.08
5	1.6	0	0	2.5	1	.02	14	2	.08
6	1.6	0	0	8.8	7	.18	14	2	.08
7	2.5	1	.01	37	40	5.1	14	2	.08
8	3.1	0	0	16	7	.42	14	2	.08
9	2.6	0	0	16	10	1.0	14	1	.04
10	2.5	0	0	59	116	30	14	1	.04
11	2.4	0	0	229	392	263	14	1	.04
12	2.2	0	0	245	481	646	15	1	.04
13	2.1	0	0	53	11	1.6	15	1	.04
14	2.1	0	0	39	14	1.5	14	1	.04
15	2.1	0	0	31	2	.17	14	1	.04
16	2.2	0	0	27	2	.15	13	1	.04
17	2.2	0	0	26	1	.07	18	5	.24
18	2.2	0	0	25	1	.07	16	2	.09
19	2.2	0	0	21	1	.06	14	2	.08
20	2.6	0	0	20	1	.05	14	2	.08
21	2.8	0	0	20	1	.05	14	2	.08
22	3.2	3	.03	18	1	.05	13	2	.07
23	4.6	3	.05	17	1	.05	13	2	.07
24	2.8	0	0	18	2	.10	13	2	.07
25	2.8	0	0	17	2	.09	13	2	.07
26	3.0	0	0	18	2	.10	13	2	.07
27	2.8	0	0	16	2	.09	13	2	.07
28	2.6	0	0	16	2	.09	16	3	.13
29	2.2	0	0	17	2	.09	104	115	41
30	2.1	0	0	16	2	.09	51	10	1.4
31	2.1	0	0	---	---	---	35	2	.19
MONTH	73.2	---	.09	1036.2	---	950.19	597	---	44.73

	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	30	2	.16	24	3	.19	24	10	.65
2	29	1	.08	23	3	.19	26	3	.21
3	28	1	.08	24	2	.13	24	3	.19
4	27	1	.07	22	2	.12	22	5	.30
5	26	1	.07	20	2	.11	20	9	.49
6	24	1	.06	20	2	.11	19	4	.21
7	20	1	.05	19	3	.15	18	3	.15
8	18	1	.05	19	3	.15	18	3	.15
9	18	2	.10	18	3	.15	17	3	.14
10	17	2	.09	18	4	.19	17	2	.09
11	17	2	.09	18	4	.19	17	2	.09
12	17	2	.09	18	5	.24	17	2	.09
13	17	1	.05	17	5	.23	16	2	.09
14	23	14	1.6	17	4	.18	17	2	.09
15	108	94	29	16	4	.17	18	2	.10
16	81	31	7.7	16	4	.17	20	2	.11
17	126	47	17	16	4	.17	20	2	.11
18	119	74	31	16	4	.17	20	2	.11
19	121	25	8.2	16	3	.13	20	2	.11
20	75	8	1.6	17	3	.14	20	2	.11
21	57	5	.77	16	3	.13	22	2	.12
22	47	4	.51	15	3	.12	23	2	.12
23	40	4	.43	14	3	.11	25	2	.14
24	36	4	.39	14	2	.08	28	3	.23
25	33	5	.45	14	2	.08	30	3	.24
26	31	5	.42	14	2	.08	27	3	.22
27	29	5	.39	14	2	.08	26	2	.14
28	27	6	.44	14	2	.08	24	2	.13
29	26	5	.35	---	---	---	33	11	.98
30	25	4	.27	---	---	---	33	3	.27
31	24	3	.19	---	---	---	27	2	.15
MONTH	1316	---	101.75	489	---	4.04	688	---	6.33

10336676 WARD CREEK AT HIGHWAY 89, NEAR TAHOE PINES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	25	2	.14	71	29	5.6	162	45	23
2	25	2	.14	87	30	7.9	180	51	28
3	22	2	.12	95	31	9.0	186	34	19
4	22	3	.18	101	34	10	165	22	9.8
5	22	2	.12	109	34	11	165	27	12
6	22	3	.18	123	43	16	162	25	11
7	22	3	.18	151	87	47	149	19	7.6
8	24	4	.26	165	68	34	125	14	4.7
9	25	3	.20	172	105	60	123	17	5.6
10	23	2	.12	165	89	44	133	17	6.1
11	24	3	.19	160	51	26	143	20	7.7
12	25	3	.20	153	39	16	141	20	7.6
13	27	3	.22	139	22	8.7	139	17	6.4
14	29	3	.23	139	33	14	135	12	4.4
15	35	5	.47	133	17	6.1	119	15	4.8
16	41	8	.89	109	11	3.2	103	11	3.1
17	45	9	1.1	89	8	1.9	93	8	2.0
18	49	7	.93	69	5	.93	89	6	1.4
19	41	2	.22	60	5	.81	75	6	1.2
20	41	3	.33	55	6	.89	64	5	.86
21	45	5	.61	66	13	2.3	63	6	1.0
22	57	10	1.5	89	20	4.8	65	6	1.1
23	59	6	.96	113	31	12	61	6	.99
24	46	3	.37	133	56	24	57	4	.62
25	39	2	.21	153	86	44	50	3	.41
26	35	2	.19	198	147	106	45	2	.24
27	32	2	.17	217	110	80	41	5	.55
28	34	2	.18	217	84	53	41	4	.44
29	39	7	.74	165	46	21	44	4	.48
30	50	17	2.3	149	32	14	45	4	.49
31	---	---	---	151	30	14	---	---	---
MONTH	1025	---	13.65	3996	---	698.13	3163	---	172.58

	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	44	3	.36	8.9	1	.02	2.4	1	.01
2	40	3	.32	8.3	1	.02	2.4	3	.02
3	35	2	.19	7.6	1	.02	2.4	5	.03
4	33	2	.18	11	12	.71	2.2	6	.04
5	30	2	.16	11	4	.12	2.2	7	.04
6	27	2	.15	8.3	3	.07	2.2	7	.04
7	25	1	.07	7.3	3	.06	2.2	7	.04
8	43	63	11	6.8	3	.06	2.1	8	.05
9	281	372	309	6.0	3	.05	2.1	8	.05
10	112	38	14	5.8	3	.05	2.1	8	.05
11	60	7	1.1	5.6	3	.05	2.1	9	.05
12	45	6	.73	5.1	3	.04	2.1	9	.05
13	38	4	.41	4.9	3	.04	2.1	9	.05
14	30	4	.32	4.7	3	.04	2.1	10	.06
15	26	3	.21	4.7	3	.04	1.9	10	.05
16	22	3	.18	4.5	3	.04	1.9	10	.05
17	22	2	.12	4.1	3	.03	1.9	11	.06
18	22	2	.12	3.8	3	.03	1.9	11	.06
19	19	2	.10	3.6	2	.02	1.9	11	.06
20	18	2	.10	3.6	2	.02	1.9	11	.06
21	16	2	.09	3.6	2	.02	1.8	11	.05
22	16	2	.09	3.6	2	.02	1.8	11	.05
23	15	2	.08	3.3	1	.01	1.8	11	.05
24	14	1	.04	3.0	1	.01	1.8	11	.05
25	13	1	.04	2.8	1	.01	1.8	10	.05
26	13	1	.04	2.8	1	.01	1.8	10	.05
27	12	1	.03	2.6	1	.01	1.7	10	.05
28	11	1	.03	2.6	1	.01	1.7	10	.05
29	10	1	.03	2.6	1	.01	1.7	10	.05
30	9.2	1	.02	2.5	1	.01	1.8	10	.05
31	8.9	1	.02	2.5	1	.01	---	---	---
MONTH	1110.1	---	339.33	157.5	---	1.66	59.8	---	1.42
YEAR	13710.8		2333.90						

10336676 WARD CREEK AT HIGHWAY 89, NEAR TAHOE PINES, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.								
01...	1515	11.5	1.4	1	.00	--	--	--
NOV.								
11...	1045	--	356	908	873	--	--	--
11...	1520	5.0	257	229	159	--	--	--
11...	2150	--	293	528	418	16	23	36
12...	0125	--	480	1710	2220	9	9	16
DEC.								
04...	1600	.0	14	2	.08	--	--	--
JAN.								
15...	1045	2.0	249	116	78	--	--	--
MAR								
02...	1600	--	90	32	7.8	--	--	--
27...	1545	8.5	234	108	68	--	--	--
27...	1915	5.0	309	319	266	--	--	--
28...	1920	4.0	281	125	95	--	--	--
JULY								
08...	1610	8.0	85	331	76	--	--	--
10...	0925	6.5	123	35	12	--	--	--

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	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.								
01...	--	--	100	--	--	--	--	--
NOV.								
11...	--	--	46	--	--	--	--	--
11...	--	--	49	59	70	81	90	100
11...	47	67	67	77	87	96	100	--
12...	23	34	52	70	86	96	100	--
DEC.								
04...	--	--	100	--	--	--	--	--
JAN.								
15...	--	--	23	--	--	--	--	--
MAR								
02...	--	--	27	--	--	--	--	--
27...	--	--	33	--	--	--	--	--
27...	--	--	27	--	--	--	--	--
28...	--	--	31	42	58	78	93	100
JULY								
08...	--	--	74	--	--	--	--	--
10...	--	--	50	--	--	--	--	--

10336684 DOLLAR CREEK NEAR TAHOE CITY, CALIF.

LOCATION.--Lat 39°11'55", long 120°05'50", in SE¼SW¼ sec.28, T.16 N., R.17 E., Placer County, Tahoe National Forest, at gaging station on right bank 30 ft (9 m) upstream from culvert on State Highway 28, 1,000 ft (305 m) upstream from Lake Tahoe, and 2.8 mi (4.5 km) northeast of Tahoe City.

DRAINAGE AREA.--1.07 mi^2 (2.77 km^2).

PERIOD OF RECORD.--Water temperatures: June 1972 to June 1974 (discontinued).
Sediment records: June 1972 to June 1974 (discontinued).

EXTREMES.--October 1973 to June 1974:
Sediment concentrations: Maximum daily, 14 mg/l Apr. 17; minimum daily, 0 mg/l on many days.
Sediment discharge: Maximum daily, 0.28 ton (0.26 tonne) Apr. 17; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 17 mg/l Apr. 27, 1973; minimum daily, 0 mg/l on many days each year.
Sediment discharge: Maximum daily, 0.86 ton (0.78 tonne) Apr. 28, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	---	---	---	---	---	2.0	4.5	---	---	---	---
2	---	---	---	---	---	---	2.0	4.0	---	---	---	---
3	---	---	1.5	---	---	---	2.0	6.5	---	---	---	---
4	---	---	---	---	---	---	---	6.5	12.0	---	---	---
5	---	---	---	---	---	3.0	2.5	---	---	---	---	---
6	---	2.0	---	---	1.0	---	---	5.0	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	1.5	---	---	3.5	7.0	---	---	---	---
9	---	---	---	---	---	---	2.5	6.5	---	---	---	---
10	---	4.5	---	---	---	---	3.5	6.0	---	---	---	---
11	---	5.5	---	---	---	---	2.5	9.0	12.0	---	---	---
12	---	4.5	2.0	---	1.5	---	3.0	6.0	---	---	---	---
13	---	4.0	---	---	---	2.5	---	8.5	---	---	---	---
14	---	---	---	---	---	---	---	5.5	---	---	---	---
15	6.0	---	---	2.0	---	---	---	8.0	---	---	---	---
16	---	---	---	2.5	---	---	3.5	7.5	---	---	---	---
17	---	---	2.0	2.0	---	---	4.0	6.5	---	---	---	---
18	---	---	---	2.0	---	---	3.0	6.0	---	---	---	---
19	---	---	---	2.0	---	---	3.0	6.0	---	---	---	---
20	---	---	---	---	1.0	2.5	4.0	7.5	---	---	---	---
21	---	---	---	---	---	---	3.0	8.0	---	---	---	---
22	---	---	---	---	---	---	5.5	5.5	---	---	---	---
23	---	---	---	---	---	---	4.0	9.5	---	---	---	---
24	---	---	---	2.0	---	---	3.0	7.5	---	---	---	---
25	4.0	---	---	---	---	3.0	3.5	---	14.0	---	---	---
26	---	---	---	---	---	3.0	3.0	---	---	---	---	---
27	---	---	---	---	1.5	2.5	4.0	---	---	---	---	---
28	---	2.0	---	---	---	2.5	3.5	9.5	---	---	---	---
29	4.5	---	1.5	---	---	2.5	---	---	---	---	---	---
30	---	---	---	1.5	---	---	5.5	---	---	---	---	---
31	---	---	---	---	---	---	---	11.5	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

10336684 DOLLAR CREEK NEAR TAHOE CITY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	.09	2	0	.20	1	0	.35	1	0
2	.08	2	0	.24	1	0	.32	1	0
3	.07	1	0	.24	1	0	.28	1	0
4	.06	1	0	.20	1	0	.28	1	0
5	.08	1	0	.17	1	0	.28	1	0
6	.07	1	0	.44	2	0	.28	1	0
7	.10	1	0	.52	1	0	.28	1	0
8	.12	1	0	.36	1	0	.28	1	0
9	.12	1	0	.32	4	0	.28	1	0
10	.13	0	0	.40	2	0	.28	1	0
11	.15	0	0	.94	7	.02	.32	1	0
12	.15	0	0	1.7	10	.05	.28	1	0
13	.15	0	0	.80	2	0	.32	1	0
14	.15	0	0	.60	1	0	.24	1	0
15	.12	0	0	.48	1	0	.24	1	0
16	.11	0	0	.52	1	0	.24	1	0
17	.11	0	0	.65	1	0	.48	2	0
18	.11	0	0	.65	1	0	.40	1	0
19	.11	0	0	.44	1	0	.32	1	0
20	.13	0	0	.40	1	0	.28	1	0
21	.13	0	0	.40	1	0	.28	1	0
22	.20	1	0	.36	1	0	.28	1	0
23	.44	1	0	.20	1	0	.24	1	0
24	.40	0	0	.20	1	0	.20	1	0
25	.40	0	0	.28	1	0	.20	1	0
26	.28	0	0	.28	1	0	.20	1	0
27	.20	0	0	.32	1	0	.24	1	0
28	.15	0	0	.32	1	0	.28	1	0
29	.17	1	0	.36	1	0	2.0	13	.08
30	.17	1	0	.36	1	0	1.6	3	.01
31	.20	1	0	--	--	--	1.0	3	.01
TOTAL	4.95	--	0	13.35	--	.07	12.55	--	.10

	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	.80	3	.01	.85	2	0	1.2	8	.03
2	.52	3	0	.75	2	0	1.6	5	.02
3	.48	3	0	.75	2	0	1.3	4	.01
4	.44	3	0	.75	2	0	1.1	4	.01
5	.44	3	0	.70	2	0	1.1	4	.01
6	.40	3	0	.65	2	0	1.1	4	.01
7	.36	3	0	.60	2	0	1.1	4	.01
8	.36	3	0	.56	2	0	1.1	4	.01
9	.40	3	0	.56	2	0	1.0	4	.01
10	.40	3	0	.60	2	0	.95	3	.01
11	.32	3	0	.60	2	0	.95	3	.01
12	.32	3	0	.60	2	0	.95	3	.01
13	.32	3	0	.56	2	0	.95	3	.01
14	.42	3	0	.56	2	0	1.2	3	.01
15	1.8	10	.05	.52	2	0	1.6	3	.01
16	2.4	8	.04	.52	2	0	2.1	3	.02
17	4.1	12	.13	.48	2	0	2.5	3	.02
18	4.4	11	.15	.48	2	0	2.4	3	.02
19	5.7	8	.12	.52	2	0	2.4	3	.02
20	3.8	4	.04	.52	2	0	2.5	3	.02
21	2.4	4	.03	.48	2	0	3.0	4	.03
22	1.8	4	.02	.48	2	0	3.2	4	.03
23	1.5	3	.01	.48	2	0	3.6	4	.04
24	1.3	3	.01	.48	2	0	3.9	5	.05
25	1.2	3	.01	.52	3	0	4.1	4	.04
26	1.1	3	.01	.56	4	.01	3.9	4	.04
27	1.0	2	.01	.56	4	.01	3.9	3	.03
28	.95	2	.01	.56	3	0	3.5	3	.03
29	.95	2	.01	--	--	--	4.2	5	.06
30	.90	2	0	--	--	--	5.0	3	.04
31	.85	2	0	--	--	--	3.8	3	.03
TOTAL	42.13	--	.66	16.25	--	.02	71.20	--	.70

10336684 DOLLAR CREEK NEAR TAHOE CITY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 to JUNE 1974

	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	3.6	4	.04	5.4	6	.09	.60	2	0
2	3.5	2	.02	5.9	5	.08	.65	2	0
3	3.0	2	.02	5.7	4	.06	.48	2	0
4	2.7	2	.01	5.4	4	.06	.40	2	0
5	2.8	2	.02	5.0	4	.05	.36	2	0
6	3.0	2	.02	4.8	4	.05	.32	2	0
7	3.2	2	.02	5.0	5	.07	.32	2	0
8	3.5	2	.02	5.0	5	.07	.36	2	0
9	3.9	3	.03	4.4	5	.06	.40	2	0
10	3.4	2	.02	3.8	4	.04	.20	2	0
11	3.6	3	.03	3.6	5	.05	.24	2	0
12	4.1	4	.04	3.4	4	.04	.24	2	0
13	4.2	4	.05	2.7	4	.03	.17	2	0
14	4.4	5	.06	2.4	4	.03	.17	2	0
15	5.4	7	.10	2.4	5	.03	.36	2	0
16	6.7	8	.14	2.0	4	.02	.40	2	0
17	7.5	14	.28	1.8	3	.01	.28	2	0
18	7.9	7	.15	1.6	4	.02	.24	2	0
19	6.4	7	.12	1.4	4	.02	.28	2	0
20	6.2	4	.07	1.3	4	.01	.24	2	0
21	6.2	4	.07	1.2	4	.01	.20	2	0
22	7.5	7	.14	1.1	2	.01	.24	2	0
23	7.5	4	.08	1.0	3	.01	.28	2	0
24	5.9	2	.03	.95	3	.01	.12	2	0
25	4.6	3	.04	1.0	3	.01	.11	2	0
26	3.9	4	.04	1.0	2	.01	.11	2	0
27	3.5	4	.04	.90	2	0	.09	2	0
28	3.6	4	.04	.90	1	0	.08	2	0
29	3.9	5	.05	.80	1	0	.09	2	0
30	4.8	7	.09	.75	2	0	.11	2	0
31	--	--	--	.63	2	0	--	--	--
TOTAL	140.4	--	1.88	83.23	--	.95	8.14	--	0

TOTAL DISCHARGE FOR PERIOD, OCT. 1, 1973 TO JUNE 30, 1974 (CFS-DAYS) 392.20
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD, OCT. 1, 1973 TO JUNE 30, 1974 (TONS) 4.38

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1973 TO JUNE 1974

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
OCT. 01...	1200	9.5	.10	3	.00	79
NOV. 12...	0730	4.5	2.5	13	.09	56
APR. 20...	1900	4.0	6.4	4	.07	65
21...	0845	3.0	5.4	1	.01	75

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, OCTOBER 1973 TO JUNE 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAR. 05...	1600	3.0	4	1.1	1	2	5	16	46	93	100

10336780 TROUT CREEK NEAR TAHOE VALLEY, CALIF.

LOCATION.--Lat 38°55'12", long 119°58'17", in NW¼SE¼ sec.3, T.12 N., R.18 E., El Dorado County, on left bank 5 ft (2 m) upstream from Martin Avenue Bridge, 500 ft (152 m) upstream from Heavenly Valley Creek, and 1.8 mi (2.9 km) east of Tahoe Valley.

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

PERIOD OF RECORD.--Water temperatures: October 1973 to September 1974 (discontinued).
Sediment records: October 1973 to September 1974 (discontinued).

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 223 mg/l July 9; minimum daily, 0 mg/l Oct. 15, 16.
Sediment discharge: Maximum daily, 67 tons (61 tonnes) July 9; minimum daily, 0 tons (0 tonnes) Oct. 15, 16.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	1.0	---	---	8.0	---	---	---	---
2	---	---	---	---	---	---	1.0	10.0	10.0	---	---	11.0
3	---	---	---	0.0	---	---	6.5	9.5	11.0	---	---	---
4	---	---	0.0	---	1.0	0.5	2.5	---	5.0	---	---	---
5	---	---	---	---	0.5	---	---	9.5	11.5	15.0	14.5	---
6	---	---	---	---	---	---	5.5	10.5	7.0	---	---	---
7	---	---	1.0	---	0.0	---	---	11.0	10.0	---	---	---
8	---	5.5	---	---	---	---	---	9.5	9.5	---	---	16.5
9	---	---	---	0.0	---	---	---	9.5	10.0	---	15.0	---
10	---	6.0	---	---	---	---	8.0	9.5	12.0	---	---	15.5
11	---	5.5	---	---	0.0	---	9.0	9.0	13.0	---	---	15.0
12	---	3.0	1.0	---	1.5	---	8.0	---	---	---	---	---
13	---	3.5	---	---	1.5	---	7.5	9.0	9.5	---	---	---
14	---	---	---	---	---	---	8.5	---	12.0	---	16.0	---
15	---	---	---	1.5	---	---	9.0	8.5	11.5	---	---	---
16	---	---	---	2.0	2.5	4.5	9.0	8.0	---	---	---	19.0
17	---	---	---	3.0	---	---	5.0	1.0	8.5	---	---	---
18	---	---	0.5	3.0	---	---	4.5	3.0	---	9.5	---	---
19	---	---	---	3.0	---	5.0	8.0	2.5	6.5	---	12.0	---
20	---	0.0	---	1.0	0.5	---	8.0	7.0	9.0	15.0	---	---
21	---	---	---	2.5	---	---	9.0	7.5	11.0	---	---	---
22	---	---	---	---	---	---	8.0	9.0	11.0	---	---	---
23	---	---	---	0.0	---	---	---	10.0	13.0	---	---	---
24	---	---	---	2.0	---	2.5	2.0	11.0	---	18.0	12.0	---
25	---	---	---	---	---	---	4.5	---	---	---	---	---
26	---	---	---	---	---	---	6.0	12.0	13.0	---	---	---
27	---	3.0	---	1.0	1.0	3.0	8.5	---	---	---	---	---
28	---	---	---	---	---	---	8.5	10.0	---	---	12.5	---
29	---	3.0	1.0	---	---	3.5	9.5	4.0	---	---	---	---
30	6.5	---	---	0.0	---	---	10.0	10.5	13.0	15.0	---	---
31	---	---	---	---	---	---	---	10.5	---	---	---	---
MONTH	---	---	---	---	---	---	7.0	8.5	---	---	---	---

10336780 TROUT CREEK NEAR TAHOE VALLEY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	15	6	.24	18	8	.39	18	5	.24
2	15	5	.20	17	8	.37	22	14	.83
3	15	5	.20	14	8	.30	25	11	.74
4	16	5	.22	14	12	.45	25	10	.68
5	15	5	.20	19	12	.62	24	8	.52
6	15	5	.20	29	14	1.1	24	6	.39
7	19	6	.31	33	17	1.5	24	5	.32
8	20	6	.32	26	14	.98	23	6	.37
9	18	4	.19	22	12	.71	23	6	.37
10	18	3	.15	29	19	1.5	22	6	.36
11	18	2	.10	62	142	27	23	6	.37
12	18	2	.10	69	117	25	23	6	.37
13	17	1	.05	34	12	1.1	22	7	.42
14	16	1	.04	29	6	.47	22	7	.42
15	16	0	0	28	4	.30	22	6	.36
16	15	0	0	27	4	.29	22	7	.42
17	15	1	.04	28	6	.45	25	6	.41
18	14	1	.04	28	4	.30	25	6	.41
19	14	2	.08	23	4	.25	24	6	.39
20	16	2	.09	23	8	.50	24	6	.39
21	16	2	.09	22	4	.24	23	6	.37
22	17	3	.14	23	6	.37	23	5	.31
23	24	4	.26	22	6	.36	22	6	.36
24	22	3	.18	21	4	.23	22	6	.36
25	22	5	.30	21	5	.28	21	6	.34
26	20	5	.27	21	3	.17	21	6	.34
27	20	6	.32	21	3	.17	24	6	.39
28	20	7	.38	22	3	.18	26	6	.42
29	19	7	.36	22	3	.18	53	113	19
30	17	8	.37	22	3	.18	43	40	4.6
31	18	8	.39	---	---	---	33	15	1.3
MONTH	540	---	5.83	789	---	65.94	773	---	36.57

	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	18	1.2	29	9	.70	39	36	4.2
2	29	16	1.3	28	16	1.2	33	32	2.9
3	29	16	1.3	27	25	1.8	34	55	5.0
4	27	12	.87	26	35	2.5	39	55	5.8
5	26	12	.84	26	17	1.2	35	22	2.1
6	25	12	.81	27	24	1.7	32	21	1.8
7	25	11	.74	26	15	1.1	30	14	1.1
8	24	9	.58	26	17	1.2	29	13	1.0
9	22	8	.48	25	18	1.2	29	17	1.3
10	21	8	.45	25	25	1.7	28	15	1.1
11	20	8	.43	25	26	1.8	28	14	1.1
12	23	8	.50	24	20	1.3	29	15	1.2
13	23	7	.43	24	22	1.4	29	17	1.3
14	26	17	1.6	24	19	1.2	33	19	1.7
15	60	120	19	24	18	1.2	36	20	1.9
16	58	50	7.8	24	12	.78	37	18	1.8
17	71	70	13	24	14	.91	37	19	1.9
18	70	103	23	24	14	.91	36	17	1.7
19	74	89	19	24	11	.71	35	17	1.6
20	52	40	5.6	26	12	.84	36	19	1.8
21	41	25	2.8	25	17	1.1	38	22	2.3
22	42	24	2.7	24	15	.97	42	24	2.7
23	40	25	2.7	24	23	1.5	41	24	2.7
24	36	22	2.1	24	22	1.4	41	21	2.3
25	33	20	1.8	25	26	1.8	41	25	2.8
26	31	20	1.7	25	21	1.4	40	20	2.2
27	31	32	2.7	25	12	.81	43	23	2.7
28	30	22	1.8	24	12	.78	45	40	4.9
29	30	20	1.6	---	---	---	55	65	9.7
30	29	18	1.4	---	---	---	57	69	11
31	29	12	.94	---	---	---	48	59	7.6
MONTH	1101	---	121.17	704	---	35.11	1155	---	93.2

10336780 TROUT CREEK NEAR TAHOE VALLEY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	60	100	16	74	55	11	138	49	18
2	64	56	9.7	79	58	12	139	55	21
3	51	29	4.0	85	62	14	141	46	18
4	48	21	2.7	86	51	12	145	39	15
5	52	18	2.5	90	54	13	148	54	22
6	51	16	2.2	97	61	16	153	46	19
7	48	17	2.2	106	76	22	155	45	19
8	50	17	2.3	115	108	34	148	49	20
9	52	14	2.0	120	80	26	145	42	16
10	47	11	1.4	121	77	25	147	24	9.5
11	47	10	1.3	121	74	24	147	20	7.9
12	50	12	1.6	123	67	22	149	33	13
13	51	13	1.8	117	56	18	147	30	12
14	52	17	2.4	114	45	14	143	35	14
15	57	21	3.2	113	50	15	138	37	14
16	60	25	4.1	107	53	15	133	36	13
17	65	35	6.1	103	28	7.8	126	37	13
18	69	40	7.5	98	36	9.5	119	37	12
19	62	23	3.9	91	32	7.9	114	35	11
20	61	22	3.6	88	34	8.1	106	35	10
21	64	32	5.5	87	33	7.8	100	40	11
22	71	32	6.1	87	40	9.4	97	36	9.4
23	69	35	6.5	91	38	9.3	92	34	8.4
24	63	30	5.1	96	52	13	88	28	6.7
25	58	19	3.0	105	60	17	84	27	6.1
26	55	17	2.5	116	58	18	81	25	5.5
27	54	18	2.6	130	61	21	77	25	5.2
28	55	17	2.5	134	64	23	74	24	4.8
29	56	21	3.2	134	52	19	71	20	3.8
30	64	26	4.5	133	56	20	69	16	3.0
31	---	---	---	137	51	19	---	---	---
MONTH	1706	---	122.0	3298	---	502.8	3614	---	361.3

	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	68	15	2.8	34	12	1.1	22	5	.30
2	65	15	2.6	32	10	.86	21	5	.28
3	62	13	2.2	33	10	.89	21	5	.28
4	59	12	1.9	33	11	.98	20	5	.27
5	57	12	1.8	35	12	1.1	20	5	.27
6	55	13	1.9	31	11	.92	20	5	.27
7	53	16	2.3	31	10	.84	20	5	.27
8	55	17	2.5	30	10	.81	19	4	.21
9	92	223	67	29	10	.78	19	4	.21
10	82	91	22	28	9	.68	19	4	.21
11	63	23	3.9	28	8	.60	20	4	.22
12	57	15	2.3	27	8	.58	20	4	.22
13	52	14	2.0	27	7	.51	19	4	.21
14	51	14	1.9	27	6	.44	18	5	.24
15	48	14	1.8	26	6	.42	18	5	.24
16	46	14	1.7	29	6	.47	18	5	.24
17	45	13	1.6	26	5	.35	17	5	.23
18	44	13	1.5	24	5	.32	17	5	.23
19	43	13	1.5	24	5	.32	16	4	.17
20	42	12	1.4	25	5	.34	16	4	.17
21	41	12	1.3	25	5	.34	16	4	.17
22	40	12	1.3	24	4	.26	16	4	.17
23	38	11	1.1	23	4	.25	16	3	.13
24	37	11	1.1	22	4	.24	16	3	.13
25	37	11	1.1	22	4	.24	16	2	.09
26	37	11	1.1	23	5	.31	16	2	.09
27	36	11	1.1	23	6	.37	16	2	.09
28	36	11	1.1	22	6	.36	16	2	.09
29	35	11	1.0	22	6	.36	16	2	.09
30	33	11	.98	22	5	.30	16	2	.09
31	33	11	.98	22	5	.30	---	---	---
MONTH	1542	---	138.76	829	---	16.64	540	---	5.88
YEAR	16591.0		1505.20						

10336780 TROUT CREEK NEAR TAHOE VALLEY, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
NOV.						
09...	2230	--	27	13	.95	53
11...	1530	5.5	86	234	54	30
DEC.						
04...	1100	.0	26	40	2.8	25
JAN.						
03...	1430	.0	31	30	2.5	30
15...	1250	1.5	63	75	13	48
FEB.						
05...	1115	.5	27	15	1.1	43

PARTICLE-SIZE DISTRIBUTION OFSURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (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
APR.							
03...	1630	6.5	4	51	0	0	4
MAY							
06...	1230	--	4	88	0	0	3

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
APR.						
03...	19	50	79	95	100	--
MAY						
06...	16	41	66	86	99	100

10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CALIF.

LOCATION.--Lat 38°55'56", long 119°58'40", in SE¼NW¼ sec.3, T.12 N., R.18 E., El Dorado County, at gaging station on right bank on upstream side of U.S. Highway 50 bridge, 1.2 mi (1.9 km) upstream from Lake Tahoe, and 1.9 mi (3.1 km) northeast of South Lake Tahoe Post Office.

DRAINAGE AREA.--40.4 mi^2 (104.6 km^2).

PERIOD OF RECORD.--Water temperatures: November 1971 to June 1974 (discontinued).
Sediment records: October 1971 to June 1974 (discontinued).

EXTREMES.--October 1973 to June 1974:
Sediment concentrations: Maximum daily, 300 mg/l Jan. 15; minimum daily, 0 mg/l Oct. 15.
Sediment discharge: Maximum daily, 52 tons (47 tonnes) Jan. 15; minimum daily, 0 tons (0 tonnes) Oct. 15.
Period of record:
Sediment concentrations: Maximum daily, 300 mg/l Jan. 15, 1974; minimum daily, 0 mg/l Oct. 15, 1973.
Sediment discharge: Maximum daily, 52 tons (47 tonnes) Jan. 15, 1974; minimum daily, 0 tons (0 tonnes) Oct. 15, 1973.

TEMPERATURE (DEG. C) OF WATER, OCTOBER 1973 TO JUNE 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	1.0	---	---	8.5	---			
2	---	---	---	---	---	---	1.0	10.5	10.0			
3	8.0	---	---	0.0	---	---	6.0	10.5	11.0			
4	---	---	0.0	---	1.0	0.5	3.0	---	10.5			
5	---	---	---	---	2.5	---	---	10.0	11.5			
6	---	4.0	---	---	---	---	7.0	10.5	7.0			
7	8.0	---	0.0	---	0.0	---	---	11.0	10.5			
8	---	5.0	---	---	---	---	---	10.0	10.0			
9	---	---	---	0.5	---	---	---	2.5	10.0			
10	---	6.0	---	---	---	---	8.5	10.0	12.0			
11	---	6.0	---	---	0.0	---	9.5	9.0	13.5			
12	---	---	0.0	---	1.5	---	9.0	---	---			
13	---	4.0	---	---	1.5	---	8.0	9.0	8.0			
14	---	---	---	---	---	---	9.0	---	12.0			
15	7.0	---	---	2.0	---	---	10.0	7.5	11.0			
16	---	---	---	2.0	2.5	5.0	10.0	8.0	---			
17	---	---	---	3.0	---	---	10.0	10.0	9.5			
18	---	---	0.0	3.5	---	---	4.0	---	---			
19	---	---	---	3.0	---	5.0	9.0	2.5	7.0			
20	---	0.5	---	1.0	0.5	---	8.5	7.5	9.5			
21	---	---	---	3.0	---	---	9.0	8.0	12.0			
22	---	---	---	---	---	---	9.0	9.5	11.5			
23	---	---	---	0.5	---	---	5.5	11.0	13.5			
24	4.0	---	---	2.5	---	2.5	2.5	11.5	---			
25	---	---	---	---	---	---	5.0	---	---			
26	---	---	---	---	---	---	6.5	12.0	13.0			
27	---	2.5	---	2.0	2.0	3.0	9.0	---	---			
28	---	---	---	---	---	---	9.0	10.5	---			
29	---	2.5	1.0	---	---	3.5	10.5	4.0	---			
30	7.5	---	---	0.5	---	---	11.0	11.0	---			
31	---	---	---	---	---	---	---	11.0	---			
MONTH	---	---	---	---	---	---	7.5	9.0	---			

10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	14	7	.26	17	9	.41	20	6	.32
2	15	6	.24	16	9	.39	22	17	1.0
3	14	6	.23	14	9	.34	26	14	.98
4	16	6	.26	14	14	.53	26	13	.91
5	16	6	.26	21	22	1.2	25	13	.88
6	17	6	.28	29	26	2.0	25	14	.95
7	20	7	.38	31	29	2.4	25	14	.95
8	20	7	.38	26	29	2.0	25	14	.95
9	18	5	.24	22	23	1.4	24	14	.91
10	18	4	.19	29	23	1.8	24	13	.84
11	18	3	.15	67	154	33	24	13	.84
12	18	3	.15	81	150	38	25	8	.54
13	17	2	.09	38	22	2.3	24	12	.78
14	16	1	.04	32	16	1.4	23	11	.68
15	16	0	0	29	13	1.0	23	10	.62
16	16	1	.04	29	10	.78	24	9	.58
17	16	1	.04	32	9	.78	25	10	.68
18	15	2	.08	33	8	.71	28	11	.83
19	15	3	.12	26	7	.49	27	11	.80
20	16	3	.13	24	8	.52	28	10	.76
21	16	3	.13	23	5	.31	25	9	.61
22	17	4	.18	23	8	.50	24	7	.45
23	26	5	.35	23	8	.50	23	8	.50
24	20	4	.22	23	7	.43	23	9	.56
25	22	6	.36	22	10	.59	22	9	.53
26	22	6	.36	22	9	.53	22	9	.53
27	21	7	.40	20	8	.43	26	9	.63
28	22	7	.42	23	7	.43	27	9	.66
29	21	7	.40	21	5	.28	64	128	26
30	18	9	.44	22	5	.30	51	45	6.2
31	18	9	.44	--	--	--	36	17	1.7
TOTAL	554	--	7.26	832	--	95.75	836	--	54.17

	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	26	22	1.5	32	16	1.4	45	50	6.1
2	30	20	1.6	31	25	2.1	36	46	4.5
3	32	15	1.3	32	30	2.6	36	50	4.9
4	30	13	1.1	30	36	2.9	40	35	3.8
5	28	13	.98	32	28	2.4	38	25	2.6
6	27	12	.87	30	30	2.4	34	23	2.1
7	27	10	.73	29	23	1.8	32	17	1.5
8	26	10	.70	29	23	1.8	32	16	1.4
9	24	9	.58	30	22	1.8	32	20	1.7
10	23	8	.50	30	31	2.5	31	18	1.5
11	22	8	.48	30	33	2.7	31	15	1.3
12	24	8	.52	30	25	2.0	32	16	1.4
13	25	7	.47	27	25	1.8	32	19	1.6
14	30	18	1.5	27	22	1.6	36	22	2.1
15	64	300	52	27	21	1.5	38	22	2.3
16	62	80	13	27	15	1.1	38	23	2.4
17	80	100	22	24	17	1.1	38	24	2.5
18	80	129	34	27	14	1.0	37	24	2.4
19	84	128	32	27	12	.87	37	25	2.5
20	62	50	8.4	28	17	1.3	38	25	2.6
21	53	28	4.0	26	20	1.4	40	30	3.2
22	46	28	3.5	26	15	1.1	43	30	3.5
23	46	30	3.7	26	23	1.6	42	29	3.3
24	42	27	3.1	26	30	2.1	42	28	3.2
25	38	23	2.4	26	30	2.1	42	29	3.3
26	36	21	2.0	28	23	1.7	42	23	2.6
27	35	32	3.0	28	24	1.8	44	25	3.0
28	34	27	2.5	27	25	1.8	46	41	5.1
29	34	27	2.5	--	--	--	55	67	9.9
30	33	25	2.2	--	--	--	59	72	11
31	33	16	1.4	--	--	--	50	62	8.4
TOTAL	1236	--	204.53	792	--	50.27	1218	--	107.7

10336790 TROUT CREEK AT SOUTH LAKE TAHOE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1973 TO JUNE 1974

	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	65	110	19	80	53	11	142	55	21
2	69	120	22	86	58	13	142	56	21
3	54	33	4.8	92	65	16	144	50	19
4	50	24	3.2	92	53	13	148	43	17
5	53	24	3.4	95	60	15	150	50	20
6	52	30	4.2	102	68	19	155	50	21
7	48	31	4.0	114	80	25	156	45	19
8	50	32	4.3	125	108	36	149	39	16
9	52	25	3.5	129	89	31	145	38	15
10	48	14	1.8	131	83	29	147	30	12
11	48	14	1.8	130	75	26	149	32	13
12	50	19	2.6	131	68	24	151	43	18
13	52	19	2.7	124	57	19	148	48	19
14	52	21	2.9	122	55	18	141	37	14
15	57	27	4.2	120	65	21	138	32	12
16	62	30	5.0	115	52	16	135	36	13
17	68	40	7.3	109	36	11	128	35	12
18	71	39	7.5	104	43	12	121	35	11
19	63	24	4.1	97	35	9.2	114	36	11
20	63	24	4.1	94	38	9.6	107	38	11
21	65	27	4.7	94	39	9.9	101	38	10
22	73	33	6.5	94	40	10	98	34	9.0
23	74	37	7.4	97	39	10	94	31	7.9
24	69	34	6.3	101	52	14	89	31	7.4
25	64	26	4.5	112	63	19	85	29	6.7
26	59	23	3.7	122	60	20	82	27	6.0
27	58	25	3.9	138	62	23	77	27	5.6
28	59	23	3.7	141	67	26	74	26	5.2
29	61	26	4.3	140	62	23	70	25	4.7
30	69	35	6.5	137	65	24	68	25	4.6
31	--	--	--	140	61	23	--	--	--
TOTAL	1778	--	163.9	3508	--	575.7	3648	--	382.1

TOTAL DISCHARGE FOR PERIOD, Oct. 1, 1973 TO JUNE 30, 1974 (CFS-DAYS) 14402
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD, OCT. 1, 1973 TO JUNE 30, 1974 (TONS) 1641.38

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, OCTOBER 1973 TO JUNE 1974

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
OCT.						
03...	1150	8.0	15	6	.24	24
NOV.						
11...	1575	6.0	94	221	56	41
12...	1110	--	101	172	47	28
DEC.						
04...	1150	.0	26	13	.91	61
JAN.						
03...	1700	.0	32	13	1.1	37
15...	1455	2.0	82	526	116	10
FEB.						
05...	1425	2.5	32	33	2.9	30

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, OCTOBER 1973 TO JUNE 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM
APR.										
03...	1430	6.0	4	52	4	12	26	51	83	100
MAY										
06...	1610	10.5	3	91	4	26	43	58	81	100

10343500 SAGEHEN CREEK NEAR TRUCKEE, CALIF.

LOCATION.--Lat 39°25'54", long 120°14'07", in NE¼NE¼ sec.7, T. 18 N., R.16 E., Nevada County, at gaging station on left bank, 2.2 mi (3.5 km) upstream from bridge on State Highway 89, and 7.5 mi (12.1 km) north of Truckee.

DRAINAGE AREA.--10.8 mi^2 (28.0 km^2).

PERIOD OF RECORD.--Chemical analyses: May 1968 to September 1972.
Water temperatures: October 1969 to September 1974 (discontinued).
Sediment records: Water years 1968 to current year (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 19.0°C July 26, 29; minimum, freezing point on many days during November to April.
Period of record:
Water temperatures: Maximum, 20.5°C June 28, 30, 1973; minimum, freezing point on many days during winter period each year.

REMARKS.--Temperature records for 1951-69 are in files at University of California, Berkeley, Calif. Water temperature recorder at site 1,000 ft (300 m) upstream. Temperature graph furnished by University of California.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	6.0	7.0	5.0	1.0	0.5	1.5	0.5	2.0	0.5	0.5	0.0
2	9.5	5.5	5.0	3.5	1.0	0.5	1.0	0.5	1.0	0.0	0.0	0.0
3	9.0	4.0	4.5	2.0	2.0	0.0	1.0	0.5	1.5	0.0	1.0	0.0
4	9.5	3.5	3.0	0.5	3.0	0.0	1.5	0.5	2.0	0.0	1.0	0.0
5	9.5	4.0	3.0	1.0	3.5	1.5	1.5	1.0	0.5	0.0	3.5	0.0
6	10.0	5.5	4.5	1.5	4.0	1.5	1.5	1.0	0.5	0.0	4.0	1.5
7	8.5	6.5	5.5	3.5	4.0	2.0	3.0	1.5	1.5	0.0	2.0	1.0
8	8.5	5.5	6.0	3.0	3.5	0.5	2.0	1.0	1.5	0.0	3.5	1.0
9	7.0	4.0	6.5	4.0	3.5	0.0	2.0	1.0	2.0	0.0	5.0	0.5
10	7.0	2.0	6.5	5.0	3.5	0.0	1.0	0.5	2.0	0.0	4.5	1.0
11	8.5	3.5	6.0	5.5	3.0	1.0	3.0	0.5	2.0	0.0	3.5	1.5
12	9.5	4.5	6.0	2.0	3.0	1.5	3.5	2.0	2.0	0.5	4.0	1.0
13	10.0	4.5	3.5	0.5	2.0	1.0	3.5	3.0	2.0	0.0	5.5	1.0
14	10.5	5.5	2.0	0.5	3.0	1.0	3.0	0.5	3.0	0.5	5.0	2.0
15	10.0	5.5	4.0	1.5	3.0	1.0	1.5	0.5	3.5	0.5	5.0	1.5
16	10.0	5.0	3.0	1.0	4.0	3.0	1.5	0.5	3.0	0.5	4.5	2.0
17	9.5	5.0	3.5	1.0	3.5	1.5	1.5	0.5	2.0	0.0	4.0	1.5
18	9.0	4.5	3.5	1.0	2.0	1.0	1.5	0.5	4.0	1.0	5.0	1.5
19	10.0	5.0	2.0	0.5	2.0	0.5	2.0	0.5	2.0	0.5	5.5	0.5
20	9.5	7.0	2.0	0.5	4.0	2.0	2.0	1.0	1.5	0.0	6.0	1.0
21	8.5	7.0	3.0	1.0	3.0	1.0	1.0	0.0	1.5	0.5	5.0	1.0
22	8.0	4.0	3.5	0.5	3.5	1.5	1.0	0.0	1.5	0.5	6.0	1.0
23	5.0	1.5	2.0	0.0	3.0	1.5	1.5	0.0	1.5	0.0	6.0	1.0
24	6.5	2.0	3.0	0.5	3.0	1.0	2.0	0.0	3.0	0.0	6.0	1.0
25	6.0	3.0	3.0	0.5	4.0	2.0	2.0	0.5	3.5	1.0	4.0	2.0
26	6.5	3.0	3.0	0.5	4.5	2.0	1.5	0.0	1.5	0.0	5.5	2.0
27	6.5	3.0	4.0	2.0	4.0	1.5	2.0	0.0	3.0	1.0	3.5	0.5
28	6.5	3.0	4.5	3.0	4.5	3.5	2.0	0.0	2.0	0.5	3.0	0.5
29	5.5	2.0	5.0	3.0	4.0	1.5	2.0	0.0	---	---	3.0	1.0
30	6.5	1.5	4.5	0.5	2.0	1.0	2.0	0.0	---	---	1.5	0.0
31	7.0	3.5	---	---	2.0	1.0	1.5	0.5	---	---	3.5	0.0
MONTH	11.5	1.5	7.0	0.0	4.5	0.0	3.5	0.0	4.0	0.0	6.0	0.0

10343500 SAGEHEN CREEK NEAR TRUCKEE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.0	0.5	9.5	3.0	14.0	5.0	18.0	9.5	15.0	9.5	14.5	6.0
2	3.5	0.0	9.0	1.5	13.5	5.0	17.0	8.5	15.0	9.5	15.0	6.5
3	5.0	0.5	9.5	1.5	14.0	5.0	17.0	8.0	16.5	9.0	15.0	7.0
4	5.5	0.5	9.5	2.0	11.5	5.0	18.0	8.0	16.0	8.5	14.5	6.0
5	4.5	1.5	10.5	1.5	13.0	5.5	17.0	7.0	15.5	10.5	14.5	5.5
6	6.5	1.0	10.5	2.0	14.0	5.0	16.5	8.0	18.0	9.0	14.0	6.5
7	6.0	0.5	11.0	3.0	13.5	5.0	13.0	8.5	17.0	8.5	14.5	6.5
8	6.5	1.0	11.0	3.0	14.0	4.5	10.5	8.0	17.0	8.5	14.5	7.0
9	5.0	0.5	10.0	3.0	15.0	5.0	9.5	8.5	17.0	8.5	14.0	6.0
10	6.5	0.5	10.5	3.0	15.5	5.5	11.5	8.0	17.0	7.0	14.0	6.0
11	6.5	1.0	11.0	3.0	16.0	6.0	14.0	5.0	16.5	8.0	12.0	6.0
12	7.0	1.0	10.0	3.5	16.0	6.0	15.5	6.0	16.5	4.5	12.0	4.5
13	7.0	0.5	9.5	3.0	16.0	6.5	16.5	6.5	15.5	7.0	11.5	5.0
14	7.0	0.5	10.5	3.0	16.0	6.5	16.5	7.0	15.0	5.5	11.5	4.5
15	7.0	2.0	9.5	3.0	15.0	7.0	16.5	8.0	15.5	5.5	11.5	4.5
16	8.0	1.5	9.5	2.0	16.0	7.0	16.5	8.0	15.5	6.0	12.0	4.5
17	7.0	1.5	6.0	1.5	15.0	6.0	16.5	7.0	15.5	5.5	12.0	5.0
18	5.0	1.5	6.5	0.5	14.5	6.5	17.0	7.0	15.5	6.0	12.0	5.0
19	7.0	1.5	8.0	2.0	12.0	7.0	17.0	8.0	14.0	5.5	12.0	5.0
20	7.0	1.5	9.0	1.5	15.0	5.0	17.0	8.5	14.5	5.5	12.0	5.0
21	8.5	1.5	10.5	3.0	16.0	6.5	18.0	8.5	15.0	5.5	13.0	5.5
22	8.0	2.0	11.5	3.5	16.5	7.0	18.0	8.5	15.5	6.0	12.0	5.5
23	5.5	1.5	12.0	3.5	16.0	6.5	18.0	8.0	15.5	6.5	12.0	5.5
24	4.5	1.5	13.0	3.5	15.5	6.5	18.5	8.5	15.5	6.5	12.0	5.5
25	6.0	0.5	13.5	4.0	15.0	7.0	17.0	9.5	15.5	7.0	11.5	5.0
26	5.5	1.5	14.0	4.5	14.5	5.0	19.0	10.5	15.5	7.0	11.5	5.5
27	8.0	1.0	11.5	4.5	16.0	5.5	18.5	9.5	15.5	7.0	10.5	5.0
28	8.0	2.0	13.0	5.0	17.0	7.0	18.5	9.0	15.5	7.0	10.5	4.0
29	9.0	1.5	12.0	3.5	18.0	8.5	19.0	10.5	15.5	7.0	10.5	5.0
30	9.5	2.0	13.0	3.5	18.5	9.0	18.5	9.0	15.5	7.0	10.5	4.5
31	---	---	14.0	4.5	---	---	15.0	9.5	15.0	7.0	---	---
MONTH	9.5	0.0	14.0	0.5	18.5	4.5	19.0	5.0	18.0	4.5	15.0	4.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)
OCT.					
02...	0930	4.5	2.7	1	.01
08...	1545	8.0	3.8	5	.05
15...	1530	10.0	2.7	3	.02
30...	0830	2.0	3.6	3	.03
NOV.					
19...	1615	1.5	8.8	4	.10
26...	1510	1.5	6.2	4	.07
DEC.					
04...	0835	.5	6.8	5	.09
10...	1310	1.5	6.1	3	.05
24...	0830	1.0	5.7	9	.14
31...	0940	1.5	14	7	.26
JAN.					
07...	1005	1.5	8.1	3	.07
14...	0755	1.5	6.8	4	.07
15...	1430	1.0	53	10	1.4
18...	1520	.5	96	26	6.7
FEB.					
04...	0820	.5	13	2	.07
19...	0930	--	7.8	4	.08
MAR.					
05...	1340	--	12	3	.10
21...	1200	3.0	15	1	.04
25...	1050	3.0	20	5	.27
APR.					
08...	0650	1.0	22	3	.18
17...	0905	2.0	36	3	.29
22...	0840	3.0	44	4	.48
MAY					
01...	1225	5.5	50	7	.94
07...	1735	9.5	127	20	6.9
24...	1015	5.5	47	21	2.7
JUNE					
17...	1035	9.5	32	2	.17
JULY					
01...	1535	18.0	12	8	.26
10...	1245	11.5	22	87	5.2

10346000 TRUCKEE RIVER AT FARAD, CALIF.
(Irrigation network station)

LOCATION.--Lat 39°25'41", long 120°01'59", in NE¼ sec.12, T.18 N., R.17 E., Nevada County, at gaging station 0.7 mi (1.1 km) downstream from Farad hydroelectric powerplant, 2.5 mi (4.0 km) north of Floriston, and 3.5 mi (5.6 km) upstream from California-Nevada State line.

DRAINAGE AREA.--932 mi^2 (2,414 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1964 to current year.
Water temperatures: January 1964 to current year.
Published as sta 10345900, Truckee River at Floriston, Calif., for period January 1964 to September 1971.

EXTREMES.--Current year:
Specific conductance: Maximum daily, 115 micromhos Jan. 13; minimum daily, 55 micromhos Nov. 11.
Water temperatures: Maximum, 19.0°C July 26; minimum, freezing point Jan. 2-4.
Period of record:
Specific conductance (1964-66, 1967 to current year): Maximum daily, 141 micromhos Feb. 3, 1964; minimum daily, 39 micromhos Dec. 23, 1964.
Water temperatures: Maximum, 21.0°C Aug. 2, 6, 1971; minimum, freezing point on several days during winter period of most years.

REMARKS.--Water-quality at this site is considered comparable with that of sta 10345900, Truckee River at Floriston, which was operated 2.5 mi (4.0 km) upstream. Daily specific conductance and temperature data are collected at Farad powerplant, 0.7 mi (1.1 km) upstream from gage.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
OCT.											
25...	1300	493	16	9.6	2.9	6.6	1.8	53	0	4.1	4.1
NOV.											
21...	0920	487	16	8.5	2.6	6.4	1.3	45	0	4.0	3.3
DEC.											
18...	1015	436	20	10	3.1	6.9	2.0	47	0	5.2	6.6
JAN.											
22...	1545	1620	17	7.7	2.2	4.4	1.5	35	0	1.8	4.2
FEB.											
22...	1345	764	15	9.1	2.7	6.0	1.8	50	0	3.2	3.3
MAR.											
21...	1000	1340	15	9.6	2.6	5.5	1.6	46	0	2.9	3.8
APR.											
22...	1000	1900	15	9.6	2.3	5.5	1.4	44	0	2.5	2.0
MAY											
23...	1045	1720	16	7.7	2.0	3.6	1.2	40	0	2.5	2.7
JUNE											
24...	1040	1020	15	7.3	2.1	3.9	1.3	41	0	4.1	2.6
JULY											
16...	1015	1300	14	8.4	2.3	5.0	1.5	50	0	3.2	2.3
31...	0950	1020	--	--	--	--	--	--	--	--	--
AUG.											
13...	0950	830	16	8.1	2.5	4.3	1.4	46	1	2.2	2.0
27...	0930	841	--	--	--	--	--	--	--	--	--
SEP.											
10...	1130	675	15	8.6	2.0	4.6	1.4	39	0	2.3	1.9
24...	1205	555	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED FLUORIDE (F) (MG/L)	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)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO-PHOSPHORUS (P) (MG/L)
OCT.											
25...	--	--	--	--	--	--	.05	--	--	--	.06
NOV.											
21...	--	--	--	--	--	--	.23	--	--	--	.04
DEC.											
18...	--	--	--	--	--	--	.13	--	--	--	.03
JAN.											
22...	--	--	--	--	--	--	.30	--	--	--	.02
FEB.											
22...	.0	--	.00	--	.00	--	.00	.06	.02	.02	.01
MAR.											
21...	--	--	--	--	--	--	.03	--	--	--	.03
APR.											
22...	--	--	--	--	--	--	.05	--	--	--	.01
MAY											
23...	--	--	--	--	--	.04	--	.09	.29	.01	--
JUNE											
24...	--	.00	--	.00	--	.00	--	.02	.21	.01	--
JULY											
16...	--	.04	--	.00	--	.04	--	.08	.17	.01	--
31...	--	.03	--	.00	--	.03	--	.06	.16	.00	--
AUG.											
13...	--	.06	--	.00	--	.06	--	.03	.30	.02	--
27...	--	.03	--	.00	--	.03	--	.16	.06	.17	--
SEP.											
10...	--	.00	--	.00	--	.00	--	.02	.26	.03	--
24...	--	.00	--	.01	--	.01	--	.01	.17	.05	--

10346000 TRUCKEE RIVER AT FARAD, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER DAY)	SUS-PENDED SOLIDS (MG/L)	HARD-NESS (CA,MG) (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL IRON (FE) (UG/L)
OCT.											
25...	72	93.7	--	36	.5	100	9.0	--	--	--	--
NOV.											
21...	65	85.5	--	32	.5	94	--	--	--	--	--
DEC.											
18...	78	90.6	--	38	.5	105	1.5	--	--	--	--
JAN.											
22...	57	249	--	28	.4	77	2.0	--	--	--	--
FEB.											
22...	66	138	--	34	.4	97	3.5	--	--	--	--
MAR.											
21...	64	233	--	35	.4	94	4.5	--	--	--	--
APR.											
22...	60	308	--	33	.4	87	6.0	--	--	--	--
MAY											
23...	55	255	1	27	.3	71	9.0	2	7	--	240
JUNE											
24...	57	157	4	27	.3	75	11.5	2	5	--	360
JULY											
16...	61	214	8	30	.4	89	14.5	3	6	3.1	450
31...	--	--	3	--	--	--	15.0	2	5	1.8	260
AUG.											
13...	60	134	8	31	.3	84	14.0	1	13	1.8	240
27...	--	--	4	--	--	87	14.0	2	4	4.3	190
SEP.											
10...	55	100	1	30	.4	88	14.0	2	3	2.3	220
24...	--	--	3	--	--	80	13.0	1	4	2.4	390

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)
AUG.								
13...	0950	.00	.0	.00	.00	.00	.00	.00

DATE	TOTAL ENDRIN (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)
AUG.								
13...	.00	.00	.00	.00	.00	.00	.00	.0

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1074

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)
FEB.					
22...	1610	4.0	764	5	10
MAR.					
21...	1230	4.5	1320	9	32
MAY					
23...	1045	9.0	1720	10	46

10346000 TRUCKEE RIVER AT FARAD, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	94	97	96	100	98	98	82	83	65	---	94	90
2	93	---	97	93	96	92	81	82	62	66	83	86
3	93	---	98	94	97	96	81	82	62	69	84	83
4	91	---	100	94	98	98	82	82	61	72	84	83
5	91	---	98	92	96	98	---	81	61	70	82	84
6	91	---	99	93	96	100	88	80	64	70	93	85
7	91	96	99	---	96	98	89	78	65	70	84	83
8	91	83	100	---	96	94	88	76	65	71	84	83
9	93	94	99	105	96	96	88	76	66	62	84	83
10	93	87	99	93	96	95	89	77	63	71	85	84
11	95	55	---	94	98	95	92	78	61	82	85	84
12	96	70	97	95	96	101	88	76	60	84	86	84
13	97	66	100	115	98	98	88	80	63	85	88	83
14	97	70	100	114	98	98	88	72	66	86	88	83
15	95	80	101	86	98	---	88	72	66	87	88	83
16	96	85	---	74	98	95	88	73	71	87	88	85
17	95	90	102	68	100	94	88	72	73	88	88	83
18	100	92	102	79	98	---	---	72	68	89	87	83
19	---	91	101	70	---	---	---	73	68	90	87	82
20	---	94	101	73	99	93	89	74	71	90	88	80
21	---	94	100	76	99	91	89	75	72	90	87	80
22	---	98	101	76	97	91	88	73	70	91	88	80
23	---	96	105	78	98	90	84	71	69	91	---	78
24	---	92	---	85	98	90	86	70	72	91	86	---
25	---	91	101	86	98	89	88	69	76	91	86	79
26	---	91	101	91	98	85	88	67	76	90	86	---
27	100	93	101	92	---	---	89	64	68	86	87	82
28	100	94	108	91	100	---	89	63	68	85	92	83
29	99	99	108	94	---	87	89	61	70	85	91	83
30	99	98	86	93	---	82	91	65	69	82	92	84
31	98	---	94	95	---	82	---	66	---	91	87	---
MONTH	---	88	100	89	98	93	87	74	67	82	87	83

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.0	9.5	2.0	0.5	3.0	3.5	5.0	7.0	9.0	---	15.0	15.0
2	12.0	---	1.0	0.0	3.0	2.0	4.0	6.0	9.0	13.0	15.0	14.0
3	10.0	---	1.5	0.0	3.0	2.0	5.0	6.0	9.5	15.5	17.0	15.0
4	10.5	---	2.0	0.0	3.0	1.0	6.0	6.5	9.5	11.5	15.0	13.5
5	10.5	---	2.5	1.0	2.0	3.5	---	7.5	10.0	15.0	17.0	15.0
6	11.0	---	3.5	1.0	1.0	4.0	5.5	7.5	10.0	12.0	15.0	14.5
7	11.0	10.0	4.5	---	1.0	4.5	5.0	7.5	10.0	13.0	17.0	14.5
8	10.0	7.5	3.0	---	2.0	4.5	5.0	7.0	8.0	12.5	17.0	14.5
9	9.0	7.0	3.0	1.0	2.0	4.0	6.5	7.0	10.0	10.5	14.0	14.0
10	8.0	8.0	2.0	1.0	2.0	4.0	4.5	7.0	13.0	12.5	14.0	15.5
11	8.0	7.5	---	1.0	2.0	4.5	5.0	9.5	10.0	13.0	14.5	13.5
12	9.0	7.0	2.5	2.0	4.0	5.0	6.0	7.0	10.0	15.5	17.0	12.5
13	9.5	5.0	2.5	2.0	1.0	4.5	5.5	7.0	10.5	15.0	15.5	12.5
14	10.5	5.0	2.5	3.0	3.0	5.5	6.0	6.5	11.5	15.5	14.0	12.0
15	10.5	5.5	2.0	4.0	4.5	---	6.5	7.0	10.5	15.0	13.5	15.0
16	9.0	5.5	---	5.0	3.5	5.5	6.0	7.0	11.5	14.0	16.0	12.0
17	10.5	5.5	4.5	4.0	2.0	5.0	11.0	6.0	11.0	14.0	14.5	12.0
18	10.5	4.5	2.0	4.0	4.0	5.0	---	7.0	10.0	14.0	14.5	12.0
19	---	3.0	1.5	4.0	---	---	---	8.0	10.5	17.5	14.5	13.0
20	---	4.0	2.0	4.0	1.5	4.5	5.5	7.5	9.5	16.5	16.0	15.0
21	---	3.0	3.0	2.0	2.0	4.5	6.0	7.0	11.5	16.5	14.5	14.5
22	---	3.0	3.0	1.5	2.0	5.0	6.0	10.0	16.0	14.5	13.0	13.0
23	---	2.5	2.0	1.5	2.0	5.0	6.0	8.5	15.0	16.5	---	14.5
24	---	3.0	---	1.5	2.5	5.0	4.5	10.0	11.5	18.5	14.5	---
25	---	4.0	3.0	2.5	3.0	5.5	4.0	11.5	15.5	17.5	14.0	12.5
26	---	4.0	3.5	2.5	4.0	6.5	4.0	12.0	10.0	19.0	15.5	---
27	7.0	4.0	4.0	1.5	---	---	4.0	9.5	10.0	15.5	16.0	13.0
28	7.5	4.0	4.0	3.0	4.5	---	5.0	8.0	15.0	16.0	15.0	10.5
29	8.0	4.0	5.0	2.0	---	5.5	7.0	7.5	13.0	16.0	15.0	13.0
30	7.0	4.5	2.0	2.5	---	4.5	8.0	---	13.0	16.5	16.5	12.5
31	7.0	---	2.0	3.0	---	4.5	---	11.0	---	15.0	17.0	---
MONTH	---	5.0	2.5	2.0	2.5	4.5	5.5	8.0	11.0	15.0	15.0	13.5

10356500 SUSAN RIVER AT SUSANVILLE, CALIF.

LOCATION.--Lat 40°25'03", long 120°40'15", in SW¼NE¼ sec.31, T.30 N., R.12 E., Lassen County, at gaging station 0.5 mi (0.8 km) west of Susanville, and 1.1 mi (1.8 km) upstream from Piute Creek.

DRAINAGE AREA.--184 mi^2 (477 km^2).

PERIOD OF RECORD.--Chemical analyses: Water years 1952-58 (partial-record station), October 1958 to current year.

REMARKS.--Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
NOV.										
13...	1445	--	179	--	--	9.0	4.0	3.0	1.4	50
JAN.										
15...	1445	425	--	--	--	--	--	2.8	--	33
APR.										
17...	1145	--	400	--	--	--	--	2.7	--	42
MAY										
09...	0650	--	831	2700	90	--	--	2.2	--	33

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
NOV.										
13...	0	41	1.6	1.5	.16	--	--	--	64	.09
JAN.										
15...	0	27	--	.5	--	--	--	--	--	--
APR.										
17...	0	34	--	.0	--	--	--	--	--	--
MAY										
09...	0	27	--	.0	.03	.20	.10	.01	--	--

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.										
13...	30.9	39	0	14	.2	0	--	--	--	--
JAN.										
15...	--	24	0	--	.2	0	--	--	--	--
APR.										
17...	--	31	0	--	.2	0	--	--	--	--
MAY										
09...	--	23	0	--	.2	0	0	10	0	10

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.								
16...	1125	--	9.4	180	7.8	10.0	2	12.5
NOV.								
13...	1445	--	179	85	7.4	5.5	10	12.6
DEC.								
05...	1415	--	71	115	7.6	3.5	5	13.0
JAN.								
15...	1445	425	--	62	7.3	5.0	85	12.3
FEB.								
06...	1120	62	--	106	7.7	2.0	2	12.5
MAR.								
13...	1330	200	--	93	8.4	4.5	10	12.3
APR.								
17...	1145	--	400	72	8.2	7.0	6	11.3
MAY								
09...	0650	--	831	--	7.5	10.0	20	10.4
JUNE								
06...	1300	--	265	64	7.5	16.0	4	8.4
JULY								
17...	1615	--	88	73	7.9	22.0	4	8.7
AUG.								
15...	1115	--	81	69	8.0	17.0	2	8.9
SEP.								
11...	1300	--	11	153	8.3	18.0	1	8.7

11013500 TIJUANA RIVER NEAR NESTOR, CALIF.

LOCATION.--Lat 32°33'06", long 117°05'00", on line between secs.3 and 4, T.19 S., R.2 W., San Diego County, at gaging station at county highway bridge, 1.7 mi (2.7 km) south of Nestor, and 2.9 mi (4.7 km) upstream from mouth.

DRAINAGE AREA.--1,695 mi^2 (4,390 km^2), of which 1,236 mi^2 (3,201 km^2) are in Mexico.

PERIOD OF RECORD.--Water temperatures: October 1969 to September 1972.
Sediment records: October 1969 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 3,000 mg/l Jan. 8; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 150 tons (136 tonnes) Jan. 8; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 4,190 mg/l Dec. 21, 1970; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily (revised), 191 tons (173 tonnes) Feb. 13, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--No flow Oct. 1 to Jan. 4, 6, Jan. 10 to Mar. 7, Mar. 10 to Sept. 30. Sediment table omitted for no flow periods October to December and April to September.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	0	0	0				0	0	0
3	0	0	0				0	0	0
4	0	0	0				0	0	0
5	5.2	1680	42				0	0	0
6	0	0	0				0	0	0
7	.27	85	1.6				0	0	0
8	16	3000	150				5.2	1130	38
9	.67	560	2.2				.03	20	.02
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				0	0	0
16	0	0	0				0	0	0
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	22.14	--	195.8	0	--	0	5.23	--	38.02

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 27.37
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 233.82

11013500 TIJUANA RIVER NEAR NESTOR, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
JAN.								
05...	1150	11.0	7.4	2600	52	93	96	96
08...	1205	11.5	24	3510	227	95	96	97
MAR.								
08...	0730	10.0	8.3	3390	76	85	89	90
08...	1245	--	16	2390	103	93	97	97

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
JAN.							
05...	97	100	--	--	--	--	--
08...	98	99	--	100	--	--	--
MAR.							
08...	91	94	94	--	95	97	100
08...	100	--	--	--	--	--	--

11022500 SAN DIEGO RIVER NEAR SANTEE, CALIF.

LOCATION.--Lat 32°49'29", long 117°03'17", in Ex Mission San Diego Grant, San Diego County, at gaging station in Mission Gorge, 0.2 mi (0.3 km) upstream from left tributary, and 6 mi (10 km) west of Santee.

DRAINAGE AREA.--377 mi^2 (976 km^2).

PERIOD OF RECORD.--Water temperatures: October 1970 to current year.
Sediment records: October 1969 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 303 mg/l Jan. 5; minimum daily, 12 mg/l Sept. 29, 30.
Sediment discharge: Maximum daily, 300 tons (272 tonnes) Jan. 5; minimum daily, 0.12 ton 0.11 tonne) Sept. 29, 30.
Period of record:
Sediment concentrations: Maximum daily, 512 mg/l Mar. 1, 1970; minimum daily, 10 mg/l on many days in 1971 and 1972.
Sediment discharge: Maximum daily, 350 tons (318 tonnes) Feb. 13, 1973; minimum daily, 0 tons (0 tonnes) on many days in 1969 and 1970.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	15.5	---	---	---	---	---
3	19.0	---	---	---	---	---	18.0	19.0	---	21.0	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	10.0	---	11.5	---	---	21.0	---	---	---
6	---	---	---	10.0	---	---	---	---	---	---	---	---
7	---	13.5	---	---	10.5	---	---	---	---	---	---	---
8	---	---	---	11.0	---	---	---	---	---	---	---	---
9	---	---	---	12.0	---	---	---	---	---	---	22.5	---
10	---	---	9.5	---	---	---	---	19.0	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	11.5	14.5	---	---	---	---	22.0
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	10.5	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	18.5	---	---	---	---
17	19.5	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	16.5		---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	14.5	---	---	---	17.0	---	---	---	---
22	---	---	---	---	---	15.5	---	---	---	---	---	---
23	---	12.5	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	10.5	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	17.0	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11022500 SAN DIEGO RIVER NEAR SANTEE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	7.1	21	.40	5.5	18	.27	12	25	.81
2	6.8	20	.37	5.8	17	.27	14	25	.95
3	5.7	19	.29	6.4	16	.28	11	24	.71
4	5.5	18	.27	7.0	15	.28	10	23	.62
5	5.5	19	.28	7.0	14	.26	9.2	22	.55
6	6.8	20	.37	6.5	13	.23	8.2	21	.46
7	7.2	21	.41	5.4	13	.19	7.3	20	.39
8	5.8	20	.31	5.4	13	.19	7.3	19	.37
9	5.1	19	.26	5.6	13	.20	7.1	18	.35
10	4.6	18	.23	5.6	14	.21	6.1	17	.28
11	4.7	18	.23	5.9	15	.24	5.6	16	.24
12	4.7	17	.22	6.2	16	.27	5.4	15	.22
13	4.5	17	.21	5.9	15	.24	5.9	15	.24
14	5.3	17	.24	5.6	15	.23	6.5	16	.28
15	5.2	18	.25	5.9	16	.25	7.1	17	.33
16	5.0	19	.26	6.2	17	.28	7.1	17	.33
17	5.0	20	.27	6.8	18	.33	7.1	16	.31
18	5.2	20	.28	30	88	14	7.1	16	.31
19	5.7	21	.32	29	89	8.2	7.1	15	.29
20	6.3	21	.36	14	40	1.5	6.8	15	.28
21	6.7	22	.40	10	35	.95	6.8	15	.28
22	6.9	23	.43	9.6	30	.78	7.1	16	.31
23	6.3	22	.37	73	213	63	7.6	16	.33
24	5.7	21	.32	17	50	2.3	7.6	17	.35
25	5.3	21	.30	10	35	.95	7.9	18	.38
26	5.1	21	.29	15	45	1.8	8.5	19	.44
27	5.0	21	.28	14	40	1.5	8.2	18	.40
28	5.5	21	.31	11	35	1.0	7.9	20	.43
29	5.2	20	.28	11	30	.89	9.2	25	.62
30	5.0	20	.27	12	30	.97	9.6	25	.65
31	5.3	19	.27	--	--	--	9.6	30	.78
TOTAL	173.9	--	9.35	358.3	--	102.06	247.9	--	13.29

	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	43	2.7	8.4	25	.57	7.9	20	.43
2	17	35	1.6	9.2	25	.62	12	35	1.1
3	13	30	1.1	9.3	24	.60	17	50	2.3
4	14	25	.95	9.5	24	.62	14	40	1.5
5	299	303	300	10	25	.68	9.0	25	.61
6	55	109	17	11	25	.74	8.0	23	.50
7	154	163	137	11	26	.77	8.0	22	.48
8	332	262	281	10	26	.70	86	107	43
9	60	55	8.9	10	26	.70	20	20	1.1
10	36	40	3.9	11	25	.74	15	40	1.6
11	24	35	2.3	10	25	.68	12	30	.97
12	20	30	1.6	10	25	.68	12	28	.91
13	16	25	1.1	9.7	24	.63	12	28	.91
14	15	23	.93	9.7	24	.63	12	28	.91
15	14	21	.79	9.1	24	.59	12	28	.91
16	13	20	.70	8.7	24	.56	12	28	.91
17	13	20	.70	9.7	23	.60	12	28	.91
18	12	19	.62	9.9	23	.61	12	29	.94
19	12	19	.62	8.9	22	.53	12	29	.94
20	12	18	.58	10	25	.68	12	29	.94
21	12	18	.58	9.5	24	.62	12	29	.94
22	11	19	.56	8.8	24	.57	12	29	.94
23	10	20	.54	8.6	23	.53	12	28	.91
24	10	21	.57	8.5	23	.53	12	27	.87
25	10	23	.62	8.2	22	.49	12	26	.84
26	10	25	.68	8.1	21	.46	12	25	.81
27	10	26	.70	7.8	21	.44	14	25	.95
28	8.6	27	.63	7.7	20	.42	14	25	.95
29	8.1	27	.59	--	--	--	14	24	.91
30	8.3	26	.58	--	--	--	14	24	.91
31	8.0	26	.56	--	--	--	14	24	.91
TOTAL	1255.0	--	770.70	262.3	--	16.99	458.9	--	71.81

11022500 SAN DIEGO RIVER NEAR SANTEE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	15	25	1.0	5.8	30	.47	4.0	40	.43
2	31	48	6.1	4.9	35	.46	4.5	40	.49
3	13	30	1.1	4.0	35	.38	4.3	40	.46
4	9.5	29	.74	3.6	40	.39	3.9	40	.42
5	7.6	28	.57	4.9	40	.53	4.0	40	.43
6	6.5	27	.47	5.5	40	.59	3.8	40	.41
7	6.5	27	.47	4.7	40	.51	4.0	40	.43
8	6.5	26	.46	4.6	40	.50	3.9	40	.42
9	6.5	26	.46	4.8	45	.58	4.3	40	.46
10	6.5	26	.46	5.2	45	.63	4.2	40	.45
11	6.7	26	.47	5.1	45	.62	3.7	40	.40
12	7.0	26	.49	5.4	45	.66	3.5	40	.38
13	7.0	26	.49	5.3	45	.64	3.6	40	.39
14	7.0	25	.47	5.3	45	.64	3.5	40	.38
15	7.0	25	.47	5.1	45	.62	3.5	40	.38
16	7.0	24	.45	5.1	45	.62	3.6	35	.34
17	7.0	24	.45	5.2	45	.63	3.2	35	.30
18	6.8	35	.64	5.4	40	.58	3.4	35	.32
19	6.4	70	1.2	6.1	40	.66	3.7	35	.35
20	6.5	40	.70	5.8	40	.63	3.7	35	.35
21	6.7	35	.63	6.1	40	.66	3.6	35	.34
22	6.2	35	.59	6.2	40	.67	3.5	35	.33
23	5.9	35	.56	6.4	40	.69	3.7	35	.35
24	5.7	35	.54	5.9	40	.64	3.8	35	.36
25	5.6	30	.45	5.7	45	.69	3.5	35	.33
26	5.2	30	.42	6.0	45	.73	3.1	35	.29
27	5.0	30	.41	5.6	45	.68	3.0	35	.28
28	5.9	29	.46	5.0	40	.54	2.9	35	.27
29	5.8	29	.45	4.3	40	.46	2.9	50	.39
30	5.6	30	.45	4.2	40	.45	3.5	80	.76
31	--	--	--	3.9	40	42	--	--	--
TOTAL	234.6	--	22.62	161.1	--	[illegible]	109.8	--	11.69

	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	3.3	100	.89	3.0	45	.36	4.2	27	.31
2	2.8	95	.72	3.0	45	.36	3.8	27	.28
3	2.9	90	.70	2.6	40	.28	3.3	26	.23
4	3.0	85	.69	3.2	40	.35	3.0	26	.21
5	3.1	80	.67	3.3	40	.36	2.8	25	.19
6	3.0	75	.61	2.7	40	.29	2.9	25	.20
7	3.5	70	.66	2.7	40	.29	3.0	24	.19
8	3.4	65	.60	2.7	40	.29	3.4	24	.22
9	3.0	60	.49	3.4	40	.37	3.6	23	.22
10	2.9	60	.47	4.2	40	.45	3.5	23	.22
11	2.9	60	.47	4.6	40	.50	3.2	22	.19
12	3.1	55	.46	4.0	40	.43	3.4	22	.20
13	3.2	55	.48	3.5	35	.33	3.3	22	.20
14	3.6	55	.53	3.5	35	.33	3.4	21	.19
15	3.7	55	.55	4.3	35	.41	3.8	20	.21
16	3.0	55	.45	4.5	35	.43	3.7	19	.19
17	2.7	50	.36	4.7	35	.44	3.7	18	.18
18	2.2	50	.30	4.4	35	.42	3.6	18	.17
19	2.4	50	.32	3.8	35	.36	3.2	17	.15
20	2.2	50	.30	3.5	35	.33	3.4	17	.16
21	2.8	50	.38	3.4	35	.32	3.2	16	.14
22	2.7	50	.36	3.3	25	.22	3.6	16	.16
23	2.3	50	.31	3.3	30	.27	3.6	15	.15
24	2.4	50	.32	3.5	30	.28	3.4	15	.14
25	2.5	45	.30	4.2	30	.34	3.4	14	.13
26	2.5	45	.30	4.2	30	.34	3.6	14	.14
27	2.4	45	.29	3.8	30	.31	3.6	13	.13
28	3.3	45	.40	3.6	30	.29	3.6	13	.13
29	3.2	45	.39	3.5	30	.28	3.8	12	.12
30	2.7	45	.33	3.6	28	.27	3.8	12	.12
31	2.6	45	.32	3.6	28	.27	--	--	--
TOTAL	89.3	--	14.42	111.6	--	10.57	103.8	--	5.47

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 3566.5
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 1066.94

11022500 SAN DIEGO RIVER NEAR SANTEE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
NOV.							
23...	1445	12.0	99	301	80	80	90
JAN.							
05...	1030	10.0	226	294	179	80	92
08...	1435	11.0	250	236	159	73	92
APR.							
02...	1030	16.0	94	120	30	--	--

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
NOV.							
23...	92	94	94	94	95	99	100
JAN.							
05...	96	99	99	99	100	--	--
08...	95	97	98	100	--	--	--
APR.							
02...	--	--	--	93	95	97	100

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CALIF.

LOCATION.--Lat 33°12'48", long 117°22'33", in SW¼SE¼SW¼ sec.14, T.11 S., R.5 W., San Diego County, at gaging station 0.7 mi (1.1 km) upstream from bridge on Interstate Highway 5, 1.1 mi (1.8 km) upstream from mouth, and 1.2 mi (1.9 km) north of Oceanside.

DRAINAGE AREA.--558 mi^2 (1,445 km^2).

PERIOD OF RECORD.--Water temperatures: October 1970 to current year.
Sediment records: October 1968 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 350 mg/l Jan. 9; minimum daily, 5 mg/l Dec. 22, 23.
Sediment discharge: Maximum daily, 375 tons (340 tonnes) Jan. 9; minimum daily, 0.03 ton (0.03 tonne) Sept. 3, 7.
Period of record:
Sediment concentrations (1969 to current year): Maximum daily, 1,220 mg/l Mar. 2, 1970; minimum daily, 2 mg/l on several days in 1972.
Sediment discharge (1969 to current year): Maximum daily, 943 tons (855 tonnes) Mar. 2, 1970; minimum daily, 0.01 ton (0.01 tonne) Nov. 4, 1969.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	20.0	---	---
4	15.0	---	10.0	---	---	---	---	---	---	---	---	---
5	---	---	9.0	10.0	---	---	15.5	---	---	---	20.0	21.0
6	---	---	11.0	10.0	10.0	---	---	---	---	---	---	---
7	---	---	---	10.0	---	---	---	17.0	---	---	19.5	---
8	---	---	---	11.0	8.0	---	15.0	---	---	---	---	---
9	---	---	---	11.0	---	---	---	---	18.0	18.0	---	---
10	---	---	---	11.0	---	---	---	---	---	---	---	---
11	---	---	---	10.0	---	13.5	---	---	---	---	---	---
12	---	15.0	---	12.0	---	---	---	---	17.0	---	---	---
13	---	---	---	12.0	---	---	---	---	---	---	---	---
14	---	---	---	12.0	10.0	---	---	---	---	---	---	---
15	---	---	---	---	---	---	15.0	---	---	20.0	---	---
16	---	---	12.0	---	---	---	---	18.0	19.0	---	---	---
17	---	---	---	---	---	16.0	---	---	---	---	---	---
18	---	---	---	---	---	---	---		---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	12.0	---	---	10.0	---	---	---	---	---	---	---
22	---	---	---	10.0	---	---	17.0	---	---	---	---	---
23	---	11.0	10.0	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	15.0	---	---	19.0	---	---	---
25	---	11.0	---	---	---	---	---	18.0	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	11.0	---	---	11.0	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	20.0	---	---
30	---	---	---	10.0	---	---	15.0	---	---	---	---	---
31	---	---	12.0	---	---	15.0	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	5.6	30	.45	6.0	20	.32	9.3	15	.38
2	5.5	30	.45	5.3	20	.29	9.8	12	.32
3	5.4	30	.44	4.8	20	.26	9.7	11	.29
4	5.3	25	.36	5.9	20	.32	9.7	9	.24
5	5.4	25	.36	5.6	20	.30	9.3	8	.20
6	5.5	25	.37	5.6	20	.30	8.8	6	.14
7	5.3	25	.36	6.0	20	.32	8.7	6	.14
8	5.3	25	.36	6.2	20	.33	8.7	6	.14
9	5.6	25	.38	6.2	19	.32	8.2	7	.15
10	5.6	25	.38	6.1	19	.31	8.0	7	.15
11	5.6	25	.39	5.9	19	.30	8.4	7	.16
12	5.9	25	.40	5.8	19	.30	9.2	7	.17
13	5.6	25	.38	5.3	19	.27	9.5	8	.21
14	5.6	25	.38	5.9	18	.29	9.3	8	.20
15	5.6	25	.38	5.4	17	.25	8.8	8	.19
16	5.9	25	.40	5.4	16	.23	8.7	8	.19
17	6.1	25	.41	7.0	15	.28	9.0	8	.19
18	6.0	25	.41	11	14	.42	9.5	7	.18
19	5.8	25	.39	10	12	.32	8.7	7	.16
20	5.6	25	.38	8.1	11	.24	8.8	6	.14
21	5.8	25	.39	8.6	10	.23	9.0	6	.15
22	5.6	25	.39	8.6	10	.23	10	5	.14
23	5.6	25	.38	15	17	.69	9.3	5	.13
24	5.9	25	.40	9.8	12	.32	9.0	6	.15
25	6.0	20	.32	9.3	7	.18	9.0	7	.17
26	5.6	20	.30	9.3	7	.18	9.7	8	.21
27	5.6	20	.30	8.8	7	.17	9.3	9	.23
28	5.4	20	.29	8.7	7	.16	9.3	10	.25
29	5.5	20	.30	9.2	7	.17	9.3	11	.28
30	5.5	20	.30	9.3	10	.25	10	12	.32
31	5.8	20	.31	--	--	--	8.8	13	.31
TOTAL	174.9	--	11.51	224.1	--	8.55	282.8	--	6.28

	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	9.0	12	.29	21	11	.62	16	17	.73
2	9.2	11	.27	21	11	.62	20	16	.86
3	9.2	11	.27	19	12	.62	23	16	.99
4	11	12	.36	19	12	.62	23	15	.93
5	17	13	.60	21	12	.68	25	15	1.0
6	14	10	.38	22	12	.71	25	14	.95
7	30	45	4.3	18	16	.78	25	13	.88
8	110	100	22	17	20	.92	51	12	1.7
9	349	350	375	16	20	.86	73	18	3.5
10	130	50	19	15	19	.77	90	25	6.1
11	80	15	3.2	14	19	.72	68	22	4.0
12	58	12	1.9	16	19	.82	52	19	2.7
13	44	11	1.3	16	18	.78	43	17	2.0
14	42	8	.91	16	18	.78	39	17	1.8
15	31	7	.59	15	18	.73	35	17	1.6
16	31	7	.59	16	18	.78	32	18	1.6
17	36	8	.78	17	17	.78	30	18	1.5
18	30	9	.73	17	17	.78	27	18	1.3
19	29	10	.78	17	16	.73	26	17	1.2
20	28	10	.76	19	16	.82	24	17	1.1
21	28	11	.83	18	16	.78	23	16	.99
22	26	11	.77	17	16	.73	22	15	.89
23	25	11	.74	17	16	.73	21	14	.79
24	24	11	.71	16	16	.69	21	14	.79
25	23	11	.68	16	17	.73	20	14	.76
26	22	11	.65	17	17	.78	20	14	.76
27	22	11	.65	17	17	.78	23	13	.81
28	20	11	.59	16	17	.73	22	13	.77
29	21	11	.62	--	--	--	20	12	.65
30	21	11	.62	--	--	--	20	12	.65
31	22	11	.65	--	--	--	20	12	.65
TOTAL	1351.4	--	441.52	486	--	20.87	979	--	44.95

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	20	12	.65	4.6	14	.17	3.2	17	.15
2	22	13	.77	4.8	14	.18	3.4	17	.16
3	20	13	.70	4.8	13	.17	3.5	16	.15
4	21	14	.79	4.4	12	.14	4.1	16	.18
5	22	14	.83	4.4	11	.13	3.1	15	.13
6	21	14	.79	4.8	10	.13	3.7	14	.14
7	19	13	.67	5.5	10	.15	4.2	14	.16
8	18	12	.58	5.9	10	.16	3.9	13	.14
9	16	12	.52	5.7	11	.17	3.8	13	.13
10	15	13	.53	5.9	11	.18	3.4	13	.12
11	15	13	.53	5.9	12	.19	3.2	13	.11
12	14	14	.53	5.9	12	.19	3.2	13	.11
13	14	14	.53	6.0	13	.21	2.9	13	.10
14	13	14	.49	5.3	14	.20	2.6	13	.09
15	13	14	.49	5.5	15	.22	2.7	13	.09
16	13	14	.49	5.0	15	.20	2.8	13	.10
17	13	14	.49	5.1	15	.21	2.9	13	.10
18	12	14	.45	4.2	16	.18	3.1	13	.11
19	11	14	.42	4.1	16	.18	3.2	14	.12
20	11	14	.42	3.9	17	.18	2.9	14	.11
21	12	14	.45	3.9	17	.18	2.9	14	.11
22	10	14	.38	3.9	18	.19	3.1	15	.13
23	9.6	14	.36	4.1	19	.21	3.2	15	.13
24	7.9	14	.30	3.8	20	.21	3.1	15	.13
25	6.3	14	.24	3.8	21	.22	2.9	15	.12
26	5.2	14	.20	3.8	21	.22	2.6	15	.11
27	4.8	14	.18	3.7	20	.20	2.2	15	.09
28	5.1	14	.19	4.2	19	.22	3.2	15	.13
29	4.8	14	.18	3.8	19	.19	2.7	14	.10
30	4.4	14	.17	3.7	18	.18	2.0	13	.07
31	--	--	--	3.4	18	.17	--	--	--
TOTAL	393.1	--	14.32	143.8	--	5.73	93.7	--	3.62

	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	1.8	12	.06	1.5	20	.08	1.0	13	.04
2	2.0	11	.06	1.5	20	.08	1.0	13	.04
3	1.8	10	.05	1.2	20	.06	1.0	12	.03
4	1.8	11	.05	1.0	21	.06	1.1	12	.04
5	1.8	12	.06	.95	21	.05	1.1	12	.04
6	2.0	13	.07	1.0	22	.06	1.1	12	.04
7	2.2	14	.08	1.1	24	.07	1.0	12	.03
8	1.6	15	.06	.95	23	.06	1.5	13	.05
9	2.2	15	.09	.95	23	.06	1.4	13	.05
10	1.8	15	.07	.95	22	.06	1.8	13	.06
11	1.8	14	.07	.95	22	.06	2.2	14	.08
12	1.7	14	.06	.95	21	.05	1.8	14	.07
13	1.4	14	.05	.95	21	.05	1.7	13	.06
14	1.4	13	.05	.95	21	.05	1.2	13	.04
15	1.8	13	.06	.95	20	.05	1.5	12	.05
16	1.6	13	.06	.95	20	.05	1.6	12	.05
17	1.5	13	.05	.95	20	.05	1.7	13	.06
18	1.4	14	.05	1.2	19	.06	1.8	14	.07
19	1.3	14	.05	1.2	19	.06	1.4	13	.05
20	1.2	15	.05	1.0	18	.05	1.2	12	.04
21	1.2	15	.05	.95	18	.05	1.8	12	.06
22	1.2	16	.05	.95	17	.04	3.2	13	.11
23	1.3	16	.06	.95	17	.04	3.1	14	.12
24	1.3	17	.06	.95	16	.04	2.0	14	.08
25	1.2	17	.06	1.1	16	.05	1.5	13	.05
26	1.7	18	.08	1.2	15	.05	1.6	13	.06
27	1.6	18	.08	1.0	15	.04	1.4	12	.05
28	1.7	19	.09	1.0	14	.04	1.6	12	.05
29	1.4	19	.07	1.0	14	.04	2.7	12	.09
30	1.2	19	.06	1.0	13	.04	2.9	12	.09
31	1.1	20	.06	1.0	13	.04	--	--	--
TOTAL	49.0	--	1.92	32.25	--	1.64	49.9	--	1.75

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 4259.95
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 562.66

11042000 SAN LUIS REY RIVER AT OCEANSIDE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.							
08...	0800	11.0	84	164	37	--	--
09...	1300	11.0	344	346	321	--	--
09...	1700	11.0	275	252	187	84	97

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
JAN.						
08...	--	--	--	98	99	100
09...	--	--	--	99	99	100
09...	98	98	98	99	100	--

11046000 SANTA MARGARITA RIVER AT YSIDORA, CALIF.

LOCATION.--Lat 33°14'13", long 117°23'14", in NE¼SW¼NE¼ sec.10, T.11 S., R.5 W., San Diego County, on Camp Joseph H. Pendleton Naval Reservation, at gaging station 1.7 mi (2.7 km) upstream from mouth, and 2.0 mi (3.2 km) southwest of Ysidora.

DRAINAGE AREA.--740 mi^2 (1,917 km^2).

PERIOD OF RECORD.--Water temperatures: October 1968 to September 1972.
Sediment records: October 1967 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 1,870 mg/l Jan. 9; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 2,780 tons (2,522 tonnes) Jan. 9; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 13,000 mg/l Feb. 24, 1969; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 534,000 tons (484,000 tonnes) Feb. 24, 1969; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--No flow Oct. 1 to Jan. 7, Apr. 16 to Sept. 30. Sediment table omitted for periods of no flow October to December, and July to September.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	2.9	10	.08	1.4	10	.04
2	0	0	0	2.9	15	.12	1.5	11	.04
3	0	0	0	2.9	20	.16	1.9	12	.06
4	0	0	0	2.9	20	.16	2.2	13	.06
5	0	0	0	2.4	25	.16	10	20	.54
6	0	0	0	2.4	30	.19	5.0	14	.19
7	0	0	0	2.4	25	.16	2.3	12	.07
8	106	430	846	2.4	22	.14	2.3	12	.07
9	470	1870	2780	2.4	21	.14	11	20	.59
10	131	245	95	2.2	20	.12	50	60	8.1
11	69	55	10	2.2	19	.11	23	30	1.9
12	52	40	5.6	2.2	18	.11	13	20	.70
13	33	30	2.7	2.2	17	.10	6.2	18	.30
14	19	25	1.3	2.2	16	.10	3.8	15	.15
15	15	20	.81	2.2	16	.10	3.2	14	.12
16	14	20	.76	2.2	15	.09	3.2	14	.12
17	13	20	.70	2.2	15	.09	3.2	13	.11
18	13	20	.70	2.2	14	.08	2.7	13	.09
19	11	20	.59	2.2	14	.08	2.4	13	.08
20	11	20	.59	2.2	13	.08	2.4	12	.08
21	10	19	.51	1.9	13	.07	2.4	12	.08
22	9.0	19	.46	1.7	12	.06	2.2	12	.07
23	8.0	18	.39	1.7	12	.06	2.2	12	.07
24	7.0	16	.30	1.7	12	.06	1.9	11	.06
25	6.0	14	.23	1.7	11	.05	1.9	11	.06
26	5.3	12	.17	1.7	11	.05	1.7	11	.05
27	4.6	11	.14	1.7	11	.05	3.2	16	.14
28	4.2	10	.11	1.5	10	.04	2.7	15	.11
29	3.7	9	.09	--	--	--	2.2	15	.09
30	3.3	8	.07	--	--	--	2.2	14	.08
31	3.1	9	.08	--	--	--	2.2	14	.08
TOTAL	1021.2	--	3747.30	61.4	--	2.81	175.5	--	14.32

11046000 SANTA MARGARITA RIVER AT YSIDORA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.0	13	.07						
2	2.3	13	.08						
3	2.0	12	.06						
4	1.5	12	.05						
5	1.0	12	.03						
6	.90	11	.03						
7	.80	11	.02						
8	.70	10	.02						
9	.60	10	.02						
10	.50	10	.01						
11	.40	10	.01						
12	.30	9	.01						
13	.20	9	0						
14	.10	9	0						
15	.05	9	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	13.35	--	.41	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1271.45
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 3764.84

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
JAN.									
09...	1145	10.0	430	1860	2160	87	88	91	92
09...	1600	10.0	329	1280	1140	83	93	95	95
10...	1240	10.5	120	164	53	--	--	--	--

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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
JAN.								
09...	93	94	--	94	--	96	--	100
09...	95	96	--	97	--	99	--	100
10...	--	--	99	--	99	--	100	--

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CALIF.

LOCATION.--Lat 33°29'30", long 117°39'44", in SW¼SE¼NE¼ sec.12, T.8 S., R.8 W., Orange County, at gaging station at Camino Capistrano bridge, 0.2 mi (0.3 km) upstream from Arroyo Trabuco, and 0.6 mi (1.0 km) south of San Juan Capistrano.

DRAINAGE AREA.--117 mi^2 (303 km^2).

PERIOD OF RECORD.--Water temperatures: October 1970 to current year.
Sediment records: October 1970 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 725 mg/l Jan. 8; minimum daily, 3 mg/l on several days during December.
Sediment discharge: Maximum daily, 308 tons (279 tonnes) Jan. 8; minimum daily, 0.01 ton (0.01 tonne) on several days during October and November.
Period of record:
Sediment concentrations: Maximum daily, 4,600 mg/l Feb. 28, 1973; minimum daily, no flow for many days in 1970-72.
Sediment discharge: Maximum daily, 1,990 tons (1,810 tonnes) Feb. 11, 1973; minimum daily, 0 tons (0 tonnes) on many days during most years.

REMARKS.--Prior to October 1970, sampling site was 2.8 mi (4.5 km) upstream, sta 11046500 San Juan Creek near San Juan Capistrano.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	12.0	---	---	---	---	---	---	---
2	---	17.0	---	---	---	14.0	15.0	---	---	---	20.0	---
3	---	---	---	9.5	---	14.0	13.0	16.0	---	---	---	24.0
4	---	---	---	10.0	---	9.0	---	---	---	---	---	---
5	18.0	---	---	10.0	---	---	19.0	---	---	22.0	---	---
6	---	---	---	11.0	---	---	---	---	---	---	---	18.0
7	---	---	9.0	11.0	---	14.0	---	---	---	---	---	---
8	---	---	---	10.0	11.0	11.0	---	---	---	---	---	---
9	---	17.0	---	11.0	---	9.0	---	---	---	---	19.0	---
10	---	---	---	11.0	---	11.0	---	19.0	---	---	---	---
11	---	---	---	9.0	---	10.0	---	---	---	24.5	---	---
12	16.0	---	---	---	---	---	22.0	---	---	19.0	---	---
13	---	---	---	---	---	---	---	---	---	---	---	20.5
14	---	---	13.0	---	---	---	---	---	---	---	---	---
15	---	---	---	---	11.0	15.0	---	---	---	---	24.0	---
16	---	12.0	---	---	---	---	---	---	---	---	21.0	---
17	---	---	---	---	---	---	---	17.0	---	---	---	---
18	---	16.5	---	15.0	---	---	---	---	---	---	---	---
19	15.0	10.0	---	---	---	---	13.0	---	---	19.0	---	---
20	---	---	---	---	---	---	---	---	---	---	---	25.5
21	---	---	8.0	---	---	---	---	---	25.0	---	---	---
22	---	---	---	---	17.0	17.0	---	---	---	25.5	23.0	---
23	---	12.0	---	---	---	---	---	---	---	---	19.0	---
24	---	16.0	---	---	---	---	---	22.0	---	---	---	---
25	---	---	---	15.5	---	---	21.5	---	---	---	---	---
26	17.0	---	---	---	---	---	16.0	---	---	19.0	---	---
27	---	---	---	---	---	15.0	---	---	---	---	---	19.0
28	---	---	13.0	---	14.0	14.0	---	---	18.0	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	10.0	---	---	---	---	---	---	---	---	22.0	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.82	45	.10	.93	25	.06	4.1	5	.06
2	.30	30	.02	1.2	20	.06	4.2	4	.05
3	.37	25	.02	.52	20	.03	4.1	4	.04
4	.72	35	.07	.60	30	.05	4.4	4	.05
5	.14	20	.01	.20	25	.01	4.3	3	.03
6	.14	20	.01	.29	20	.02	4.3	3	.03
7	.62	25	.04	.93	30	.08	4.4	3	.04
8	1.0	45	.12	1.2	40	.13	4.2	3	.03
9	.30	15	.01	1.3	50	.18	3.5	3	.03
10	.37	15	.01	.93	40	.10	3.7	4	.04
11	.93	50	.13	1.3	50	.18	3.6	4	.04
12	.52	20	.03	.19	20	.01	3.2	4	.03
13	.93	40	.10	.64	30	.05	3.5	4	.04
14	.52	20	.03	1.2	40	.13	3.3	4	.04
15	.62	30	.05	1.0	30	.08	3.0	4	.03
16	.62	25	.04	.62	25	.04	2.9	4	.03
17	.44	20	.02	3.2	90	.78	3.2	4	.03
18	.41	20	.02	3.0	60	.49	3.3	3	.03
19	.71	45	.09	.82	30	.07	3.3	3	.03
20	1.2	65	.21	1.2	20	.06	3.4	3	.03
21	.93	50	.13	.93	15	.04	3.5	3	.03
22	1.6	65	.28	2.7	15	.11	4.2	4	.05
23	1.0	50	.14	5.0	20	.27	3.6	4	.04
24	1.5	60	.24	3.0	15	.12	3.3	4	.04
25	1.6	65	.28	3.0	10	.08	3.6	4	.04
26	1.8	75	.36	3.2	10	.09	3.8	5	.05
27	1.3	60	.21	3.1	9	.08	3.4	5	.05
28	.24	40	.03	3.5	8	.08	2.9	5	.04
29	.14	30	.01	3.7	7	.07	3.2	5	.04
30	.44	40	.05	3.5	6	.06	3.2	4	.03
31	.93	30	.08	---	---	---	3.0	4	.03
TOTAL	23.16	---	2.94	52.90	---	3.61	111.6	---	1.17

	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	8	.10	3.9	15	.16	5.0	50	.68
2	3.5	7	.07	3.9	20	.21	22	65	3.9
3	3.6	6	.06	3.8	20	.21	7.5	50	1.0
4	23	103	11	3.7	20	.20	5.5	45	.67
5	16	50	2.2	3.6	20	.19	5.3	40	.57
6	10	20	.54	3.6	20	.19	5.0	35	.47
7	53	260	42	3.5	20	.19	7.5	60	1.2
8	129	725	308	3.5	25	.24	42	500	48
9	46	80	8.8	3.4	25	.23	44	185	22
10	16	40	1.7	3.4	25	.23	23	90	5.6
11	12	30	.97	3.3	25	.22	13	45	1.6
12	11	30	.89	3.3	25	.22	10	30	.81
13	9.3	25	.63	3.2	25	.22	8.3	20	.45
14	8.1	25	.55	3.2	25	.22	7.9	20	.43
15	7.5	25	.51	3.2	25	.22	7.2	15	.29
16	7.0	25	.47	3.1	25	.21	6.8	15	.28
17	6.7	20	.36	3.1	25	.21	6.5	15	.26
18	6.3	20	.34	3.1	25	.21	5.8	15	.23
19	6.0	20	.32	3.1	25	.21	5.6	15	.23
20	5.7	20	.31	3.0	25	.20	5.3	20	.29
21	5.5	20	.30	3.0	25	.20	5.1	25	.34
22	5.3	15	.21	3.0	25	.20	4.8	30	.39
23	5.1	15	.21	3.0	25	.20	4.6	25	.31
24	4.9	15	.20	3.0	25	.20	4.4	25	.30
25	4.8	15	.19	2.9	25	.20	4.2	25	.28
26	4.6	15	.19	2.9	25	.20	4.1	25	.28
27	4.5	15	.18	2.9	25	.20	7.0	50	.95
28	4.4	15	.18	2.9	30	.23	4.6	60	.75
29	4.3	15	.17	---	---	---	4.5	45	.55
30	4.1	15	.17	---	---	---	4.3	35	.41
31	4.0	15	.16	---	---	---	4.2	30	.34
TOTAL	435.9	---	381.98	91.5	---	5.82	295.0	---	93.86

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	4.7	30	.38	.43	30	.03	.99	90	.24
2	9.9	35	.94	.48	40	.05	.93	95	.24
3	20	65	3.5	.54	55	.08	1.0	100	.27
4	11	55	1.6	.61	70	.12	.93	95	.24
5	6.3	45	.77	.81	80	.17	.93	90	.23
6	4.0	40	.43	.91	90	.22	.93	85	.21
7	3.5	35	.33	.65	80	.14	1.0	100	.27
8	3.2	30	.26	.89	110	.26	.93	95	.24
9	2.6	25	.18	1.2	120	.39	.82	90	.20
10	2.5	30	.20	1.2	130	.42	.82	85	.19
11	2.7	30	.22	1.3	140	.49	.62	80	.13
12	2.5	30	.20	1.3	140	.49	.72	85	.17
13	2.2	30	.18	1.4	145	.55	.72	90	.17
14	2.4	30	.19	1.4	150	.57	.62	85	.14
15	2.8	30	.23	1.5	160	.65	.82	80	.18
16	2.8	30	.23	1.4	110	.42	.72	80	.16
17	2.3	30	.19	1.1	75	.22	.62	75	.13
18	2.3	35	.22	.89	70	.17	.56	70	.11
19	2.3	35	.22	.91	75	.18	.50	200	.27
20	2.7	40	.29	.99	80	.21	.46	180	.22
21	2.6	40	.28	1.2	95	.31	.47	160	.20
22	2.9	40	.31	1.1	90	.27	.47	140	.18
23	3.0	40	.32	1.1	85	.25	.47	130	.16
24	2.3	25	.16	1.2	90	.29	.47	120	.15
25	2.3	20	.12	1.0	85	.23	.47	110	.14
26	2.5	20	.14	.87	80	.19	.46	100	.12
27	2.2	20	.12	.76	75	.15	.46	95	.12
28	1.0	15	.04	.89	80	.19	.46	90	.11
29	.89	15	.04	.95	90	.23	.46	90	.11
30	.56	20	.03	.91	85	.21	.46	85	.11
31	--	--	--	.99	95	.25	--	--	--
TOTAL	112.95	--	12.32	30.88	--	8.40	20.29	--	5.41

	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	.45	85	.10	.49	100	.13	.38	40	.04
2	.45	90	.11	.49	100	.13	.38	35	.04
3	.45	95	.12	.49	100	.13	.37	35	.03
4	.45	100	.12	.48	100	.13	.36	35	.03
5	.45	105	.13	.48	100	.13	.36	40	.04
6	.44	100	.12	.47	100	.13	.36	40	.04
7	.44	100	.12	.46	95	.12	.35	40	.04
8	.43	95	.11	.45	95	.12	.35	40	.04
9	.43	90	.10	.44	95	.11	.34	40	.04
10	.43	85	.10	.43	90	.10	.34	40	.04
11	.43	80	.09	.42	80	.09	.34	45	.04
12	.43	80	.09	.41	70	.08	.35	45	.04
13	.44	80	.10	.40	65	.07	.36	45	.04
14	.44	85	.10	.39	60	.06	.37	50	.05
15	.45	85	.10	.38	55	.06	.38	50	.05
16	.45	85	.10	.38	50	.05	.39	55	.06
17	.46	80	.10	.38	45	.05	.40	60	.06
18	.46	80	.10	.38	45	.05	.42	65	.07
19	.46	75	.09	.38	45	.05	.44	70	.08
20	.47	70	.09	.39	45	.05	.47	80	.10
21	.47	70	.09	.40	40	.04	.50	85	.11
22	.47	65	.08	.40	40	.04	.52	85	.12
23	.47	65	.08	.40	40	.04	.55	80	.12
24	.48	70	.09	.41	40	.04	.58	80	.13
25	.48	70	.09	.41	40	.04	.60	75	.12
26	.48	70	.09	.41	40	.04	.62	70	.12
27	.48	75	.10	.40	40	.04	.63	65	.11
28	.49	80	.11	.40	40	.04	.65	70	.12
29	.49	85	.11	.40	40	.04	.66	75	.13
30	.49	90	.12	.39	40	.04	.66	80	.14
31	.49	95	.13	.39	40	.04	--	--	--
TOTAL	14.20	--	3.18	13.00	--	2.28	13.48	--	2.19

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1214.86
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 523.16

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	23.16	2.94	3	6
NOVEMBER ...	52.90	3.61	7	11
DECEMBER ...	111.60	1.17	17	18
JANUARY 1974	435.90	381.98	346	728
FEBRUARY ...	91.50	5.82	13	19
MARCH	295.00	93.86	56	150
APRIL	112.95	12.32	18	30
MAY	30.88	8.40	4	12
JUNE	20.29	5.41	2	7
JULY	14.20	3.18	2	5
AUGUST	13.00	2.28	1	3
SEPTEMBER ..	13.48	2.19	2	4
TOTAL	1214.86	523.16	471	993

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
18...	1300	16.5	5.1	84	1.2	--	--	--	--	--
JAN.										
04...	1615	11.0	43	253	29	--	--	--	--	--
07...	1640	12.0	60	735	119	--	--	--	--	--
08...	0835	10.0	145	2130	834	60	72	79	--	84
08...	1200	11.0	214	1180	682	55	63	69	72	75
09...	1710	14.0	30	62	5.0	--	--	--	--	--
MAR.										
02...	0840	14.0	60	94	15	--	--	--	--	--
08...	0815	11.0	55	175	26	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.									
18...	--	98	--	98	--	100	--	--	--
JAN.									
04...	--	95	--	97	--	99	--	100	--
07...	84	--	86	--	93	--	99	--	100
08...	88	--	89	--	91	--	99	--	100
08...	76	--	77	--	80	--	95	--	100
09...	--	72	--	81	--	92	--	100	--
MAR.									
02...	--	87	--	95	--	100	--	--	--
08...	--	96	--	98	--	100	--	--	--

11046550 SAN JUAN CREEK AT SAN JUAN CAPISTRANO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (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
NOV. 06...	1100	--	3	--	.29	1	2	5
SEP. 13...	0945	20.5	3	.35	--	1	1	4

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
NOV. 06...	18	37	54	64	72	88	100	--
SEP. 13...	13	33	51	62	72	84	93	100

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CALIF.

LOCATION.--Lat 33°29'54", long 117°39'54", on line between secs.1 and 12, T.8 S., R.8 W., Orange County, at gaging station at bridge on Del Obispo Street in San Juan Capistrano.

DRAINAGE AREA.--54.1 mi^2 (140 km^2).

PERIOD OF RECORD.--Water temperatures: October 1970 to current year.
Sediment records: October 1970 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 3,450 mg/l Jan. 7; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 1,980 tons (1,800 tonnes) Jan. 7; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 8,900 mg/l Feb. 11, 1973; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 7,820 tons (7,090 tonnes) Feb. 11, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--No flow Oct. 1, 2, 28-31, Nov. 10-14, May 25-29, June 2-6, 9. Records of discharge furnished by Orange County Flood Control District.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	12.0	---	---	---	---	---	---	---
2	---	21.0	---	---	---	14.0	15.0	---	---	---	21.0	---
3	---	---	---	---	---	12.0	13.0	16.0	---	30.5	---	---
4	---	---	---	10.0	---	8.0	---	---	---	---	---	---
5	---	---	---	11.0	---	---	23.0	---	---	25.0	---	---
6	---	21.0	---	12.0	---	---	---	---	---	---	---	20.0
7	---	---	11.0	11.0	---	13.0	---	---	---	---	---	---
8	---	---	---	10.0	11.0	10.0	---	---	---	---	---	---
9	---	20.0	---	11.0	---	9.0	---	---	---	---	20.0	---
10	---	---	---	10.0	---	14.0	---	21.0	---	---	---	---
11	---	---	---	9.0	---	10.0	---	---	---	30.0	---	---
12	---	---	---	---	---	---	23.0	---	---	22.0	---	---
13	---	---	---	---	---	---	---	---	---	---	---	25.5
14	---	---	15.0	---	---	---	---	---	---	---	---	---
15	---	---	---	---	11.0	20.0	---	---	---	---	---	---
16	---	12.0	---	---	---	---	---	---	---	---	26.0	---
17	---	---	---	---	---	---	---	16.0	---	---	---	---
18	---	15.5	---	15.0	---	---	---	---	---	---	---	---
19	15.0	10.0	---	---	---	---	13.0	---	---	20.0	---	---
20	---	---	---	---	---	---	---	---	---	---	---	30.0
21	---	---	10.0	---	---	---	---	---	26.0	---	---	---
22	---	---	---	---	20.0	17.0	---	---	---	31.0	30.5	---
23	---	12.0	---	---	---	---	---	---	---	---	20.0	---
24	---	15.0	---	---	---	---	---	25.0	---	---	---	---
25	---	---	---	15.5	---	---	---	---	---	---	---	---
26	22.0	18.5	---	---	---	---	18.0	---	---	---	---	20.0
27	---	---	---	---	---	15.0	---	---	---	---	---	19.0
28	---	---	14.0	---	14.0	14.0	---	---	19.0	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	11.0	---	---	---	---	---	---	---	---	25.0	---
31	---	---	---	---	---	---	---	24.0	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.01	5	0	5.0	90	3.4
2	0	0	0	.02	5	0	4.8	100	1.3
3	.01	3	0	.03	7	0	1.5	40	.16
4	.02	3	0	.04	8	0	1.5	20	.08
5	.03	3	0	.06	9	0	1.5	15	.06
6	.04	3	0	.09	10	0	1.5	10	.04
7	.05	3	0	.05	7	0	1.1	8	.02
8	.06	4	0	.03	5	0	1.1	7	.02
9	.07	4	0	.01	3	0	1.3	7	.02
10	.08	4	0	0	0	0	1.7	6	.03
11	.10	5	0	0	0	0	1.6	6	.03
12	.10	5	0	0	0	0	2.5	7	.05
13	.10	4	0	0	0	0	2.8	7	.05
14	.10	4	0	0	0	0	3.6	6	.06
15	.10	4	0	.60	3	0	3.0	6	.05
16	.10	4	0	1.2	40	.13	2.9	6	.05
17	.10	4	0	16	400	17	3.8	8	.08
18	.10	4	0	55	1100	248	3.8	7	.07
19	.09	3	0	4.9	100	1.3	3.3	6	.05
20	.08	3	0	3.5	50	.47	3.4	6	.06
21	.07	3	0	4.0	20	.22	3.8	7	.07
22	.06	3	0	4.8	85	4.7	11	170	6.6
23	.05	3	0	24	590	68	3.6	50	.49
24	.04	3	0	3.8	60	.62	2.6	35	.25
25	.03	3	0	3.0	25	.20	3.0	25	.20
26	.02	3	0	3.6	50	.49	2.5	20	.14
27	.01	3	0	1.5	20	.08	1.8	15	.07
28	0	0	0	1.5	15	.06	2.0	12	.06
29	0	0	0	1.9	10	.05	2.0	10	.05
30	0	0	0	1.1	5	.01	2.1	8	.05
31	0	0	0	--	--	--	2.0	6	.03
TOTAL	1.61	--	0	130.74	--	341.33	88.1	--	13.69

	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	16	270	16	3.2	9	.08	7.3	50	.99
2	3.5	80	.76	3.0	9	.07	52	1820	583
3	2.4	25	.16	3.0	10	.08	20	700	27
4	83	1790	976	3.0	10	.08	2.0	110	.59
5	35	1400	132	3.0	10	.08	.20	80	.04
6	38	820	98	3.0	15	.12	.10	60	.02
7	157	3450	1980	2.5	15	.10	6.2	370	22
8	152	3130	1470	3.0	20	.16	134	2920	1180
9	44	270	32	3.0	20	.16	26	350	25
10	14	80	3.0	3.0	15	.12	18	80	3.9
11	3.8	20	.21	3.0	15	.12	13	60	2.1
12	2.0	15	.08	3.0	15	.12	12	50	1.6
13	.80	10	.02	3.0	15	.12	8.8	40	.95
14	.70	9	.02	3.0	20	.16	7.8	35	.74
15	.60	8	.01	3.2	25	.22	6.7	30	.54
16	.40	7	.01	3.9	30	.32	6.7	25	.45
17	3.5	80	.76	4.5	25	.30	4.8	20	.26
18	1.3	40	.14	4.5	20	.24	7.8	25	.53
19	1.1	20	.06	5.4	20	.29	6.7	20	.36
20	5.5	30	.45	5.4	15	.22	6.8	25	.59
21	8.0	50	1.1	4.5	12	.15	6.7	20	.36
22	3.8	35	.36	4.5	12	.15	6.7	15	.27
23	3.8	25	.26	4.5	11	.13	7.8	15	.32
24	3.8	15	.15	4.5	10	.12	6.7	10	.18
25	4.5	10	.12	5.4	15	.22	7.8	15	.32
26	4.1	9	.10	5.4	14	.20	7.8	15	.32
27	3.8	8	.08	5.4	13	.19	20	480	40
28	3.0	7	.06	4.5	12	.15	6.1	55	.91
29	3.0	7	.06	--	--	--	4.8	40	.52
30	2.5	6	.04	--	--	--	3.2	30	.26
31	3.0	7	.06	--	--	--	2.5	20	.14
TOTAL	607.90	--	4712.07	107.3	--	4.47	429.00	--	1694.26

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	3.2	25	.22	1.8	3	.01	.10	10	0
2	38	690	87	2.5	3	.02	0	0	0
3	18	50	2.4	3.2	3	.03	0	0	0
4	12	30	.97	4.4	6	.07	0	0	0
5	7.8	10	.21	4.2	10	.11	0	0	0
6	6.7	9	.16	5.3	20	.29	0	0	0
7	6.7	9	.16	1.3	15	.05	1.3	10	.04
8	4.8	8	.10	1.3	10	.04	1.3	9	.03
9	4.8	8	.10	3.6	6	.06	0	0	0
10	4.8	7	.09	4.0	4	.04	4.1	40	.44
11	4.8	7	.09	4.0	3	.03	2.0	30	.16
12	4.8	6	.08	3.6	3	.03	2.0	25	.14
13	5.8	6	.09	3.0	3	.02	2.0	20	.11
14	4.0	5	.05	1.9	3	.02	2.0	15	.08
15	2.5	5	.03	1.9	3	.02	2.0	10	.05
16	2.5	4	.03	3.1	10	.08	2.0	9	.05
17	3.2	4	.03	2.5	9	.06	2.0	8	.04
18	2.8	3	.02	1.0	8	.02	2.0	7	.04
19	3.2	3	.03	.40	7	.01	2.0	6	.03
20	2.5	3	.02	.40	6	.01	2.0	6	.03
21	3.2	3	.03	.30	5	0	2.0	6	.03
22	2.5	3	.02	.20	5	0	2.0	6	.03
23	4.0	3	.03	.10	4	0	2.0	6	.03
24	4.0	3	.03	.10	4	0	2.0	6	.03
25	3.2	3	.03	0	0	0	2.0	6	.03
26	4.0	3	.03	0	0	0	2.0	6	.03
27	3.2	3	.03	0	0	0	2.0	6	.03
28	2.5	3	.02	0	0	0	2.0	6	.03
29	2.5	3	.02	0	0	0	2.0	6	.03
30	2.5	3	.02	.10	30	.01	2.0	5	.03
31	---	---	---	.10	15	0	---	---	---
TOTAL	174.5	---	92.14	54.30	---	1.03	46.80	---	1.54

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.0	5	.03	.50	7	.01	.50	7	.01
2	2.0	4	.02	.50	7	.01	.50	7	.01
3	2.0	4	.02	.50	7	.01	.50	8	.01
4	2.0	4	.02	.50	7	.01	.50	10	.01
5	2.0	4	.02	.50	7	.01	.50	15	.02
6	2.0	5	.03	.50	8	.01	.50	20	.03
7	2.0	6	.03	.50	8	.01	.50	20	.03
8	2.0	7	.04	.50	8	.01	.50	15	.02
9	2.0	8	.04	.50	9	.01	.50	15	.02
10	2.0	9	.05	.50	9	.01	.50	15	.02
11	1.0	10	.03	.50	10	.01	.50	10	.01
12	1.0	20	.05	.50	10	.01	.50	10	.01
13	1.0	20	.05	.50	15	.02	.50	10	.01
14	1.0	20	.05	.50	15	.02	.50	10	.01
15	1.0	20	.05	.50	20	.03	.50	10	.01
16	1.0	20	.05	.50	25	.03	.50	10	.01
17	1.0	25	.07	.50	20	.03	.50	10	.01
18	.50	25	.03	.50	20	.03	.50	10	.01
19	.50	25	.03	.50	15	.02	.50	10	.01
20	.50	20	.03	.50	15	.02	.50	10	.01
21	.50	20	.03	.50	15	.02	.20	10	.01
22	.50	15	.02	.50	15	.02	.20	10	.01
23	.50	15	.02	.50	10	.01	.20	10	.01
24	.50	15	.02	.50	9	.01	.20	10	.01
25	.50	10	.01	.50	9	.01	.20	10	.01
26	.50	10	.01	.50	8	.01	.20	10	.01
27	.50	10	.01	.50	8	.01	.10	20	.01
28	.50	9	.01	.50	7	.01	.10	20	.01
29	.50	9	.01	.50	7	.01	.10	25	.01
30	.50	8	.01	.50	7	.01	.10	30	.01
31	.50	8	.01	.50	7	.01	---	---	---
TOTAL	34.00	---	.90	15.50	---	.45	11.60	---	.38
YEAR	1701.35		7062.26						

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	1.61	0.0	0	0
NOVEMBER ...	130.74	341.33	450	791
DECEMBER ...	88.10	13.69	41	55
JANUARY 1974	607.90	4712.07	4750	9460
FEBRUARY ...	107.30	4.47	50	54
MARCH	429.00	1894.26	2090	3990
APRIL	174.50	92.14	285	377
MAY	54.30	1.03	20	21
JUNE	46.80	1.54	11	13
JULY	34.00	0.90	6	7
AUGUST	15.50	0.45	2	2
SEPTEMBER ..	11.60	0.38	1	1
TOTAL	1701.35	7062.26	7706	14771

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
18...	1135	15.5	63	1910	325	58	66	73	85	91
18...	1400	18.0	40	737	80	73	84	89	95	97
23...	0720	12.0	36	440	43	--	--	--	--	--
JAN.										
07...	0830	11.0	110	1300	386	65	73	80	88	94
08...	1210	11.0	158	3030	1290	42	51	60	66	71
MAR.										
02...	1330	16.0	66	2480	442	66	74	79	89	93
08...	1300	11.0	210	4810	2730	49	51	54	64	76
27...	1620	18.0	31	763	64	74	85	91	96	98

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.									
18...	94	--	96	--	99	--	100	--	--
18...	--	98	--	99	--	100	--	--	--
23...	--	96	--	97	--	98	--	100	--
JAN.									
07...	--	97	--	99	--	100	--	--	--
08...	76	--	80	--	89	--	99	--	100
MAR.									
02...	97	--	98	--	100	--	--	--	--
08...	88	--	94	--	97	--	99	--	100
27...	--	99	--	100	--	--	--	--	--

11047300 ARROYO TRABUCO AT SAN JUAN CAPISTRANO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	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
SEP. 13...	1000	25.5	3	.50	1	1	4	13

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
SEP. 13...	26	35	43	57	79	90	100

11048500 SAN DIEGO CREEK NEAR IRVINE, CALIF.

LOCATION.--Lat 33°40'20", long 117°47'10", in San Joaquin Grant, Orange County, at gaging station 200 ft (61 m) downstream from Jeffery Road bridge, and 1.5 mi (2.4 km) west of Irvine.

DRAINAGE AREA.--40.3 mi^2 (104.4 km^2).

PERIOD OF RECORD.--Water temperatures: June 1972 to current year.
Sediment records: June 1972 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 8,100 mg/l Jan. 7; minimum daily, no flow Nov. 15-17.
Sediment discharge: Maximum daily, 8,600 tons (7,800 tonnes) Feb. 11; minimum daily, 0 tons (0 tonnes) on several days during November and January.
Period of record:
Sediment concentrations: Maximum daily, 9,400 mg/l Feb. 11, 1973; minimum daily, no flow Dec. 25, 1972, Nov. 15-17, 1973.
Sediment discharge: Maximum daily, 22,300 tons (20,200 tonnes) Feb. 11, 1973; minimum daily, 0 tons (0 tonnes) on several days each year.

REMARKS.--No flow Nov. 15-17.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	12.0	---	---	15.0	---	---	---	---	25.0	---
2	---	---	---	---	---	10.5	15.5	22.0	19.0	30.5	27.5	---
3	---	---	---	---	9.0	10.0	---	---	---	29.5	27.5	26.5
4	---	17.5	---	---	---	---	---	---	---	---	---	---
5	19.5	---	---	---	---	---	---	---	---	25.0	---	---
6	---	---	---	10.0	---	---	---	---	22.0	---	30.5	28.5
7	---	---	---	10.5	4.5	---	---	24.0	22.0	---	---	---
8	---	---	15.0	11.0	---	10.5	---	---	---	24.0	28.5	27.0
9	---	---	---	11.0	---	11.0	15.5	19.0	---	---	---	24.5
10	---	---	---	---	8.5	---	---	---	---	---	---	---
11	---	---	---	12.0	---	---	---	---	---	20.5	---	---
12	19.5	---	---	---	15.0	16.0	16.5	---	23.0	---	---	---
13	---	---	---	---	---	---	---	24.0	---	---	20.5	---
14	---	---	---	---	---	21.0	19.5	---	---	---	---	21.0
15	---	---	15.0	---	12.0	---	---	---	---	---	21.0	---
16	---	---	---	---	---	---	20.5	---	19.5	---	---	25.0
17	---	---	---	---	9.5	---	---	19.0	---	---	---	---
18	---	14.5	---	---	---	---	---	---	29.5	---	---	23.5
19	19.0	11.5	---	14.5	---	19.0	20.5	---	---	---	---	---
20	---	---	---	---	---	---	17.5	---	23.0	---	23.5	26.0
21	---	---	---	14.5	15.0	---	---	25.5	30.0	---	---	---
22	---	13.0	13.5	---	11.0	19.5	---	---	---	---	20.0	---
23	---	---	---	8.0	---	---	---	21.5	---	29.0	---	26.0
24	---	---	---	---	---	---	---	---	---	---	---	27.0
25	---	---	---	---	---	---	---	---	25.5	25.5	---	---
26	---	13.0	---	---	17.5	17.0	22.0	---	---	---	---	---
27	---	---	---	11.5	---	21.0	---	---	26.5	---	28.0	21.5
28	---	---	13.0	---	13.5	18.0	17.0	28.0	33.5	21.0	---	---
29	---	---	---	---	---	---	---	---	---	---	22.0	---
30	---	---	---	---	---	---	14.0	22.5	---	27.5	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11048500 SAN DIEGO CREEK NEAR IRVINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	1.4	160	.60	.48	70	.09	.90	100	.24
2	.84	100	.23	.61	80	.13	1.3	140	.49
3	1.2	130	.42	.67	80	.14	1.2	130	.42
4	1.0	110	.30	.59	75	.12	1.2	130	.42
5	1.8	210	1.0	.38	60	.06	1.5	170	.69
6	1.6	180	.78	.59	80	.13	1.4	160	.60
7	2.1	250	1.4	.71	90	.17	.45	60	.07
8	1.4	160	.60	.59	80	.13	1.6	180	.78
9	1.6	180	.78	.06	50	.01	1.6	170	.73
10	1.4	160	.60	.59	80	.13	.96	110	.29
11	1.9	220	1.1	.84	100	.23	2.1	220	1.2
12	2.4	300	1.9	.71	90	.17	.72	90	.17
13	.71	90	.17	.06	50	.01	2.3	240	1.5
14	1.4	160	.60	.01	40	0	.55	70	.10
15	1.0	110	.30	0	0	0	1.7	190	.87
16	.48	70	.09	0	0	0	2.5	320	2.2
17	1.2	130	.42	0	0	0	2.7	340	2.5
18	2.4	300	1.9	17	1600	73	2.4	250	1.6
19	2.7	340	2.5	1.7	190	.87	3.0	300	2.4
20	1.2	130	.42	.77	90	.19	3.0	290	2.3
21	1.7	190	.87	.40	60	.06	2.5	260	1.8
22	1.4	160	.60	3.0	400	3.2	5.8	640	10
23	.71	90	.17	8.8	1000	24	4.9	510	6.7
24	1.4	160	.60	1.2	130	.42	2.6	270	1.9
25	.97	110	.29	1.1	120	.36	1.7	190	.87
26	1.5	170	.69	1.1	120	.36	2.2	230	1.4
27	.59	80	.13	1.3	140	.49	2.6	270	1.9
28	.59	80	.13	.87	100	.23	3.6	370	3.6
29	1.5	150	.61	1.1	120	.36	4.0	410	4.4
30	.75	90	.18	1.4	160	.60	2.5	260	1.8
31	1.1	120	.36	---	---	---	1.6	180	.78
TOTAL	41.94	---	20.74	46.63	---	105.66	67.08	---	54.72

	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	4.9	510	6.7	.77	90	.19	4.6	350	4.3
2	2.4	250	1.6	.94	110	.28	87	2420	910
3	2.0	210	1.1	.73	90	.18	25	1400	95
4	84	3320	1580	.49	70	.09	13	740	26
5	42	2240	255	.68	80	.15	5.1	360	5.0
6	43	1940	268	.43	60	.07	4.2	310	3.5
7	240	8100	8600	1.1	120	.36	17	600	64
8	106	5400	2700	1.2	130	.42	275	6770	5830
9	6.4	510	11	.69	90	.17	56	1650	249
10	1.8	250	1.2	.96	110	.29	13	540	19
11	.47	70	.09	.85	100	.23	4.6	340	4.2
12	.06	30	0	.84	100	.23	2.4	210	1.4
13	1.4	160	.60	1.4	160	.60	1.6	180	.78
14	2.1	220	1.2	1.0	110	.30	1.1	130	.39
15	1.2	130	.42	.35	50	.05	.54	70	.10
16	.17	60	.03	.26	30	.02	.31	40	.03
17	2.1	220	1.2	.62	80	.13	.43	60	.07
18	2.2	230	1.4	1.7	190	.87	.47	70	.09
19	.79	90	.19	1.1	130	.39	.40	60	.06
20	.53	70	.10	1.1	120	.36	.29	40	.03
21	1.5	170	.69	1.6	180	.78	.15	20	.01
22	.72	90	.17	1.2	130	.42	.31	40	.03
23	1.6	180	.78	2.8	240	1.8	.25	30	.02
24	.86	100	.23	2.9	250	2.0	.18	20	.01
25	1.3	140	.49	3.4	270	2.5	.50	70	.09
26	.12	20	.01	1.9	200	1.0	.23	30	.02
27	2.2	230	1.4	.88	100	.24	6.1	390	6.4
28	.04	20	0	4.5	320	3.9	.70	100	.19
29	1.3	140	.49	---	---	---	1.3	140	.49
30	1.2	130	.42	---	---	---	.48	80	.10
31	.84	100	.23	---	---	---	.48	60	.06
TOTAL	555.20	---	13434.74	36.39	---	18.02	522.72	---	7220.39

11048500 SAN DIEGO CREEK NEAR IRVINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.71	90	.17	1.3	270	.95	3.8	1500	15
2	31	1000	84	1.0	220	1.1	3.2	850	7.3
3	1.8	210	1.0	1.9	300	1.5	2.8	550	4.2
4	.48	70	.09	2.2	400	2.4	2.0	440	2.4
5	1.0	110	.30	3.5	700	6.6	3.1	2500	21
6	1.0	100	.27	4.4	1400	17	2.5	2000	14
7	1.4	160	.60	2.1	560	3.2	2.5	1500	10
8	1.6	180	.78	1.8	350	1.7	3.0	2500	20
9	1.6	180	.78	2.0	520	2.8	2.9	1800	14
10	2.1	250	1.4	2.4	600	3.9	2.2	1200	7.1
11	2.2	270	1.6	1.9	470	2.4	2.6	1700	12
12	1.4	160	.60	1.8	390	1.9	2.6	1400	9.8
13	2.1	250	1.4	2.1	430	2.4	1.7	900	4.1
14	2.8	370	2.8	2.1	420	2.4	1.4	760	2.9
15	1.2	130	.42	2.3	510	3.2	1.5	1200	4.9
16	1.6	180	.78	2.5	600	4.1	1.8	1900	9.2
17	2.0	240	1.3	2.5	550	3.7	2.5	2500	17
18	2.1	330	1.9	3.2	800	6.9	2.3	2000	12
19	2.8	500	3.8	3.2	750	6.5	2.5	2500	17
20	2.1	340	1.9	3.6	900	8.7	2.5	2500	17
21	1.5	200	.81	2.3	620	3.9	1.7	2000	9.2
22	1.8	250	1.2	2.5	650	4.4	1.4	1300	4.9
23	2.1	350	2.0	1.9	460	2.4	2.1	2000	11
24	3.2	800	6.9	2.7	600	4.4	1.8	1900	9.2
25	2.3	350	2.2	3.5	1000	9.5	1.8	1600	7.8
26	2.8	600	4.5	3.0	900	7.3	1.2	1300	4.2
27	3.8	1100	11	3.3	950	8.5	2.1	2700	15
28	2.5	740	5.0	3.5	1000	9.5	1.8	2800	14
29	1.8	420	2.0	3.0	690	5.6	1.6	2100	9.1
30	1.2	250	.81	3.0	550	4.5	1.4	1600	6.0
31	--	--	--	2.7	500	3.6	--	--	--
TOTAL	85.99	--	142.31	80.0	--	146.95	66.3	--	311.3

	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	1.4	1100	4.2	2.7	2800	20	1.6	800	3.5
2	1.6	1300	5.6	4.5	1800	22	1.8	450	2.2
3	1.6	3500	15	4.6	1300	16	1.5	350	1.4
4	2.8	2000	15	4.6	860	11	2.7	740	5.4
5	2.7	1000	7.3	4.1	900	10	3.4	1400	13
6	2.9	500	3.9	5.1	3500	48	2.1	800	4.5
7	2.9	300	2.3	3.4	1800	17	.89	500	1.2
8	3.1	500	4.2	2.7	800	5.8	1.4	900	3.4
9	3.6	1500	15	1.8	430	2.1	.59	1300	2.1
10	3.6	2100	20	2.1	380	2.2	1.4	950	3.6
11	3.1	1900	16	1.8	600	2.9	1.2	600	1.9
12	3.4	1900	17	2.4	1800	12	1.1	400	1.2
13	3.8	2000	21	1.2	1200	3.9	1.8	1000	4.9
14	3.3	1300	12	2.4	1700	11	1.8	700	3.4
15	4.7	2500	32	3.3	2500	22	1.4	350	1.3
16	2.7	2000	15	2.7	1300	9.5	1.8	180	.87
17	3.8	1500	15	1.6	800	3.5	1.4	120	.45
18	3.4	2500	23	1.8	750	3.6	1.8	150	.73
19	3.4	2000	18	1.6	700	3.0	2.1	230	1.3
20	3.3	1800	16	2.4	2800	18	1.8	130	.63
21	5.0	3000	41	2.7	3600	26	1.4	90	.34
22	4.6	2800	35	2.7	3300	24	1.2	150	.49
23	3.4	2100	19	2.4	1900	12	1.2	240	.78
24	2.4	1600	10	2.4	1100	7.1	1.8	400	1.9
25	2.1	1200	6.8	1.2	800	2.6	1.2	360	1.2
26	1.4	920	3.5	1.6	1000	4.3	.71	290	.56
27	2.1	1700	9.6	2.4	1500	9.7	1.0	230	.62
28	2.7	3300	24	1.0	700	1.9	.59	170	.27
29	3.0	3400	28	1.4	800	3.0	.30	130	.11
30	2.7	1200	8.7	1.8	1200	5.8	.20	90	.05
31	3.4	3500	32	1.2	700	2.3	--	--	--
TOTAL	93.9	--	495.1	77.6	--	342.2	43.18	--	63.30

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1716.93
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 22355.43

11048500 SAN DIEGO CREEK NEAR IRVINE, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	41.94	20.74	28	49
NOVEMBER ...	46.63	105.66	139	245
DECEMBER ...	67.08	54.72	85	140
JANUARY 1974	555.20	13434.74	4710	18100
FEBRUARY ...	36.39	18.02	33	51
MARCH	522.72	7220.39	4190	11400
APRIL	85.99	142.31	278	420
MAY	80.00	146.95	99	246
JUNE	66.30	311.30	70	381
JULY	93.90	495.10	139	634
AUGUST	77.60	342.20	104	446
SEPTEMBER ..	43.18	63.30	33	96
TOTAL	1716.93	22355.43	9908	32208

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
18...	0950	14.5	18	3400	165	40	45	50	57	63
22...	1110	13.0	.71	411	.79	82	91	96	99	99
JAN.										
04...	1135	--	24	2690	174	27	30	32	40	47
07...	0850	10.0	96	2230	578	28	31	32	34	37
07...	1435	11.0	290	10900	8540	18	19	22	24	28
09...	0905	11.0	7.3	478	9.4	68	74	77	81	85
23...	1005	8.0	3.4	536	4.9	55	65	65	66	69
MAR.										
02...	1230	14.5	139	3380	1270	30	32	36	39	43
02...	1325	16.0	108	4540	1320	30	34	38	41	46
08...	1145	--	382	7980	8230	35	35	39	44	51
APR.										
02...	0930	15.5	48	1660	215	30	34	38	42	47

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.										
18...	72	--	92	--	100	--	--	--	--	--
22...	--	99	--	99	--	100	--	--	--	--
JAN.										
04...	59	--	81	--	98	--	100	--	--	--
07...	42	--	53	--	82	--	100	--	--	--
07...	35	--	46	--	72	--	96	--	100	--
09...	--	88	--	95	--	98	--	100	--	--
23...	--	73	--	86	--	94	--	98	--	100
MAR.										
02...	50	--	68	--	88	--	98	--	100	--
02...	54	--	64	--	79	--	98	--	100	--
08...	61	--	74	--	90	--	99	--	100	--
APR.										
02...	--	54	--	73	--	95	--	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	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
SEP.											
27...	1315	21.5	3	1.2	1	6	17	46	89	99	100

11048550 SAN DIEGO CREEK AT LANE ROAD, NEAR IRVINE, CALIF.

LOCATION (revised).--Lat 33°40'18", long 117°50'06", in NW¼ sec.60, T.6 S., R.8 W., in San Joaquin Grant, Orange County, at gaging station at abandoned county road bridge, 800 ft (200 m) north of the San Diego Freeway (Interstate 405), 0.2 mi (0.3 km) downstream from Lane Road, and 1.7 mi (2.7 km) north of University of California at Irvine.

PERIOD OF RECORD.--Water temperatures: February 1972 to current year.
Sediment records: April 1972 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 5,160 mg/l Mar. 8; minimum daily, 30 mg/l Mar. 21.
Sediment discharge: Maximum daily, 15,300 tons (13,900 tonnes) Jan. 7; minimum daily, 0.66 ton (0.60 tonne) Mar. 21.
Period of record:
Sediment concentrations: Maximum daily, 10,000 mg/l May 4, 1972; minimum daily, 30 mg/l Feb. 26, Apr. 12, 1973, Mar. 21, 1974.
Sediment discharge: Maximum daily, 20,400 tons (18,500 tonnes) Feb. 11, 1973; minimum daily, 0.38 ton (0.34 tonne) Apr. 12, 1973.

REMARKS.--Records of discharge furnished by Orange County Flood Control District.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	13.5	---	---	15.5	---	---	---	---	26.5	---
2	---	---	---	---	---	11.0	15.0	22.0	18.5	30.5	24.5	---
3	---	20.5	---	---	11.0	11.0	---	---	---	---	25.5	31.0
4	---	---	---	---	---	22.0	21.0	---	---	---	---	---
5	18.0	---	---	---	---	16.0	---	---	---	24.5	---	---
6	---	---	---	10.0	---	9.5	---	---	23.0	---	32.0	---
7	---	---	---	10.5	6.0	14.0	---	24.5	20.0	---	---	---
8	---	---	19.0	---	---	11.0	---	---	---	29.5	26.0	31.0
9	---	17.5	---	11.0	---	11.5	17.0	19.5	---	---	---	23.0
10	---	---	---	---	11.0	---	---	---	---	---	---	---
11	---	---	---	14.5	---	---	---	---	---	20.5	---	---
12	19.0	---	---	---	20.5	17.0	26.5	---	24.5	---	---	---
13	---	---	---	---	---	---	---	---	---	---	20.0	---
14	---	---	---	---	---	18.5	---	---	---	---	---	21.0
15	---	---	---	---	14.0	---	---	---	---	---	20.5	---
16	---	---	---	12.0	---	---	---	---	21.0	---	---	30.5
17	---	18.0	---	---	11.5	---	---	16.0	---	---	---	---
18	---	---	---	---	---	---	---	---	30.5	---	---	25.5
19	17.0	12.0	---	15.5	---	16.5	21.0	---	---	---	---	---
20	---	---	---	---	---	---	---	---	22.5	---	24.5	30.5
21	---	---	---	18.0	19.5	19.0	---	28.5	---	---	---	---
22	---	15.5	17.0	---	11.0	17.0	---	---	---	---	20.5	---
23	---	---	---	7.5	---	---	---	20.5	---	31.0	---	29.5
24	---	---	---	---	---	---	---	---	---	---	---	27.5
25	---	---	---	---	---	---	---	---	26.0	27.0	---	---
26	16.0	13.0	---	---	21.5	17.5	22.0	---	---	---	---	---
27	---	---	---	13.0	---	---	---	---	26.5	---	31.0	21.5
28	---	---	---	18.0	15.0	18.0	---	29.5	---	22.0	---	---
29	---	---	---	---	---	---	---	---	---	---	25.5	---
30	---	---	---	---	---	17.0	---	26.5	---	30.5	---	---
31	---	---	---	10.0	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11048550 SAN DIEGO CREEK AT LANE ROAD, NEAR IRVINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	10	180	4.9	9.0	380	9.2	7.9	300	6.4
2	10	190	5.1	9.3	400	10	6.3	100	1.7
3	11	200	5.9	9.0	420	10	4.3	70	.81
4	10	180	4.9	10	400	11	4.9	80	1.1
5	11	170	5.0	9.0	300	7.3	6.3	90	1.5
6	11	170	5.0	9.0	280	6.8	7.3	120	2.4
7	10	165	4.5	9.3	320	8.0	6.6	110	2.0
8	10	160	4.3	9.0	300	7.3	7.3	210	4.1
9	9.6	155	4.0	9.3	330	8.3	9.3	180	4.5
10	9.0	150	3.6	9.9	350	9.4	9.6	210	5.4
11	10	140	3.8	10	400	11	8.1	180	3.9
12	12	135	4.4	9.3	350	8.8	7.3	150	3.0
13	9.9	130	3.5	8.4	300	6.8	9.6	180	4.7
14	9.9	130	3.5	8.4	250	5.7	8.7	150	3.5
15	10	140	3.8	9.0	350	8.5	7.6	110	2.3
16	8.7	150	3.5	11	470	14	8.7	150	3.5
17	9.0	160	3.9	103	820	149	9.0	200	4.9
18	11	180	5.3	248	1430	1540	8.4	150	3.4
19	11	190	5.6	6.8	300	5.5	9.0	200	4.9
20	12	190	6.2	6.3	200	3.4	10	300	8.1
21	10	180	4.9	6.5	100	1.8	8.4	200	4.5
22	11	180	5.3	31	310	227	52	930	270
23	9.0	170	4.1	119	1280	963	9.3	100	2.5
24	9.3	165	4.1	5.3	250	3.6	7.8	90	1.9
25	9.9	170	4.5	4.3	110	1.3	5.8	80	1.3
26	12	200	6.5	4.9	80	1.1	6.3	90	1.5
27	12	250	8.1	4.5	75	.91	9.4	150	3.8
28	11	300	8.9	4.3	70	.81	8.1	105	2.3
29	12	350	11	4.5	70	.85	8.7	110	2.6
30	12	360	12	5.1	80	1.1	8.4	100	2.3
31	11	370	11	---	---	---	7.6	90	1.8
TOTAL	324.3	---	171.1	702.4	---	3041.47	288.0	---	366.61

	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	20	610	50	8.4	200	4.5	18	600	29
2	7.6	150	3.1	8.1	160	3.5	362	1860	4270
3	8.7	110	2.6	8.4	130	2.9	26	770	83
4	477	2550	7080	7.6	120	2.5	5.3	110	1.6
5	264	1480	1530	8.4	140	3.2	5.1	100	1.4
6	269	2230	2100	8.1	130	2.8	5.6	100	1.5
7	923	4660	15300	7.6	135	2.8	71	760	485
8	344	3240	5580	9.0	300	7.3	907	5160	14900
9	27	460	56	8.1	250	5.5	7.9	450	9.6
10	8.7	130	3.1	8.1	200	4.4	11	340	10
11	6.8	110	2.0	7.8	150	3.2	9.9	210	5.6
12	5.6	210	3.2	7.3	105	2.1	9.6	120	3.1
13	5.8	220	3.4	7.8	130	2.7	9.9	140	3.7
14	6.6	250	4.5	9.0	160	3.9	9.9	130	3.5
15	5.8	220	3.4	7.8	150	3.2	9.0	120	2.9
16	5.6	200	3.0	7.8	140	2.9	8.1	90	2.0
17	13	450	16	8.7	200	4.7	8.4	70	1.6
18	7.6	300	6.2	7.6	180	3.7	7.6	50	1.0
19	6.6	260	4.6	8.7	250	5.9	8.4	55	1.2
20	12	350	11	8.4	200	4.5	8.7	40	.94
21	9.0	200	4.9	8.1	230	5.0	8.1	30	.66
22	6.1	180	3.0	8.7	250	5.9	7.6	40	.82
23	6.6	240	4.3	9.6	270	7.0	7.8	50	1.1
24	6.8	260	4.8	8.1	250	5.5	9.0	90	2.2
25	7.8	250	5.3	9.0	270	6.6	7.6	80	1.6
26	7.1	220	4.2	9.6	300	7.8	7.3	110	2.2
27	8.1	180	3.9	8.4	250	5.7	49	880	282
28	6.6	70	1.2	88	730	320	9.9	105	2.8
29	9.0	350	8.5	---	---	---	8.7	90	2.1
30	8.1	300	6.6	---	---	---	7.6	80	1.6
31	8.4	250	5.7	---	---	---	7.1	70	1.3
TOTAL	2508.0	---	31814.5	312.2	---	439.7	1638.1	---	20115.02

11048550 SAN DIEGO CREEK AT LANE ROAD, NEAR IRVINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	6.6	60	1.1	10	500	14	13	600	21
2	87	1220	463	8.4	430	9.8	14	650	25
3	11	150	4.5	8.4	350	7.9	15	700	28
4	8.1	60	1.3	9.0	380	9.2	12	500	16
5	8.1	60	1.3	9.6	400	10	13	600	21
6	8.1	80	1.7	21	650	37	14	650	25
7	8.1	100	2.2	9.6	390	10	14	690	26
8	8.1	120	2.6	9.0	350	8.5	12	650	21
9	8.1	140	3.1	9.9	350	9.4	11	600	18
10	8.1	120	2.6	11	370	11	11	550	16
11	8.1	110	2.4	11	400	12	11	500	15
12	8.1	95	2.1	9.9	350	9.4	10	450	12
13	8.1	100	2.2	11	305	9.1	10	400	11
14	8.1	125	2.7	11	300	8.9	11	450	13
15	8.1	150	3.3	11	300	8.9	13	700	25
16	8.1	135	3.0	11	350	10	11	600	18
17	9.9	150	4.0	11	480	14	12	650	21
18	9.9	170	4.5	13	450	16	12	680	22
19	9.9	190	5.1	12	400	13	12	650	21
20	9.9	380	10	13	380	13	12	600	19
21	9.9	400	11	13	330	12	12	550	18
22	10	350	9.5	9.9	350	9.4	12	600	19
23	10	310	8.4	9.9	340	9.1	13	700	25
24	9.6	300	7.8	12	400	13	13	800	28
25	9.6	400	10	11	380	11	14	900	34
26	10	500	14	11	360	11	13	800	28
27	10	450	12	11	350	10	13	900	32
28	10	510	14	11	350	10	16	1400	60
29	10	540	15	12	470	15	16	1300	56
30	10	570	15	14	500	19	13	700	25
31	--	--	--	13	350		--	--	--
TOTAL	348.6	--	639.4	347.6	--	372.6	378	--	719

	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	14	800	30	13	1000	35	10	450	12
2	13	700	25	13	1100	39	11	300	8.9
3	14	800	30	15	1200	49	9.6	200	5.2
4	15	1200	49	15	1100	45	10	300	8.1
5	15	1300	53	13	900	32	12	400	13
6	15	1400	57	15	800	32	12	350	11
7	14	1100	42	11	600	18	12	400	13
8	13	870	31	13	700	25	12	350	11
9	16	900	39	11	600	18	11	400	12
10	16	1000	43	13	700	25	11	350	10
11	18	1300	63	13	600	21	11	300	8.9
12	18	1200	58	14	500	19	13	500	18
13	18	1100	53	12	450	15	13	600	21
14	17	1000	46	13	600	21	15	700	28
15	16	900	39	14	670	25	13	600	21
16	15	800	32	13	650	23	14	550	21
17	16	900	39	14	600	23	14	450	17
18	15	1000	41	14	550	21	13	400	14
19	16	1100	48	12	500	16	14	450	17
20	16	1200	52	15	950	38	14	500	19
21	16	1100	48	15	800	32	14	490	19
22	13	1000	35	15	700	28	14	480	18
23	12	900	29	15	650	26	13	470	16
24	10	400	11	14	600	23	12	460	15
25	11	500	15	13	550	19	11	450	13
26	12	600	19	14	600	23	12	470	15
27	11	500	15	14	630	24	12	480	16
28	12	700	23	15	700	28	12	450	15
29	13	900	32	13	750	26	11	400	12
30	13	1000	35	12	700	23	12	450	15
31	13	1100	39	10	600	16	--	--	--
TOTAL	446	--	1171	416	--	808	367.6	--	443.1

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 8076.8
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 60101.50

11048550 SAN DIEGO CREEK AT LANE ROAD, NEAR IRVINE, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	324.30	171.10	182	353
NOVEMBER ...	702.40	3041.47	746	3790
DECEMBER ...	288.00	366.61	169	536
JANUARY 1974	2508.00	31814.50	3430	35200
FEBRUARY ...	312.20	439.70	215	655
MARCH	1638.10	20115.02	2110	22200
APRIL	348.60	639.40	238	877
MAY	347.60	372.60	202	575
JUNE	378.00	719.00	229	948
JULY	446.00	1171.00	285	1460
AUGUST	416.00	808.00	258	1070
SEPTEMBER ..	367.60	443.10	220	663
TOTAL	8076.80	60101.50	8284	68327

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
17...	1150	18.0	36	519	50	40	46	51	63	75
18...	0840	--	650	2070	3630	52	63	74	87	92
DEC.										
15...	1355	19.0	9.3	112	2.8	--	--	--	--	--
22...	1250	17.0	21	387	22	64	75	82	88	92
JAN.										
04...	1025	--	50	165	22	--	--	--	--	--
06...	1120	10.0	370	2600	2600	51	60	69	77	84
07...	1600	11.0	2010	8300	45000	35	39	45	53	64
27...	1215	--	11	180	5.3	--	--	--	--	--
MAR.										
02...	0845	--	1100	5580	16600	35	36	42	50	62
02...	1010	--	820	3650	8080	34	38	44	52	61
02...	1315	16.5	510	928	1280	57	69	76	83	89
08...	0945	--	940	5180	13100	32	33	38	43	50
30...	0920	17.0	1.1	51	.15	--	--	--	--	--
SEP.										
03...	1430	31.0	9.3	199	5.0	50	57	65	77	90

11048550 SAN DIEGO CREEK AT LANE ROAD, NEAR IRVINE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.										
17...	--	93	--	94	--	97	--	100	--	--
18...	93	--	95	--	100	--	--	--	--	--
DEC.										
15...	--	84	--	85	--	86	--	94	--	100
22...	--	93	--	94	--	96	--	100	--	--
JAN.										
04...	--	97	--	98	--	99	--	100	--	--
06...	88	--	90	--	97	--	100	--	--	--
07...	82	--	95	--	99	--	100	--	--	--
27...	--	84	--	86	--	95	--	99	--	100
MAR.										
02...	74	--	87	--	98	--	100	--	--	--
02...	70	--	81	--	96	--	100	--	--	--
02...	92	--	95	--	99	--	100	--	--	--
08...	60	--	73	--	92	--	99	--	100	--
30...	--	54	--	59	--	89	--	100	--	--
SEP.										
03...	--	96	--	98	--	99	--	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
SEP.										
27...	1240	21.5	3	14	0	2	13	64	97	100

11059100 SAN BERNARDINO WATER QUALITY CONTROL PLANT AT SAN BERNARDINO, CALIF.

LOCATION.--Lat 34°04'16", long 117°17'16", in San Bernardino Grant, San Bernardino County, at gaging station, at effluent end of chlorine contact chamber, 0.5 mi (0.8 km) upstream from Santa Ana River at "E" Street Bridge.

PERIOD OF RECORD.--Chemical analyses: October 1972 to current year.
Specific conductance: October 1972 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum recorded, 1,180 micromhos Mar. 15; minimum recorded, 803 micromhos Sept. 15.
Period of record:
Specific conductance: Maximum recorded, 1,250 micromhos May 9, 1973; minimum, 803 micromhos Sept. 15, 1974.

REMARKS.--Periods of missing record due to poor circulation at probe from October to March; recorder failures Mar. 18 to Sept. 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT.					
01...	1000	35	505	950	--
08...	0915	31	502	931	--
19...	1145	33	502	952	--
25...	1030	34	503	1000	--
NOV.					
06...	1405	33	497	1040	25.0
14...	1015	34	527	983	24.0
28...	1233	33	504	978	22.5
DEC.					
03...	1045	36	501	910	22.0
12...	1100	31	516	1020	23.5
21...	1215	34	498	976	22.0
28...	1100	33	502	993	21.5
JAN.					
09...	1130	33	535	1030	20.5
16...	1300	33	488	981	21.5
22...	1500	31	520	1040	20.0
FEB.					
07...	0935	31	576	1040	20.0
14...	1035	31	514	1010	21.0
21...	0915	34	542	1090	20.5
28...	1500	30	537	1030	22.0
MAR.					
07...	0915	27	532	1030	19.0
11...	1205	36	497	1000	21.5
22...	0920	31	542	1030	22.0
29...	1010	33	539	1040	22.0
APR.					
04...	1220	36	527	985	24.4
12...	1145	34	530	990	25.0
17...	0855	30	531	970	22.5
26...	1115	31	526	1010	24.5
MAY					
01...	1040	34	530	990	25.9
08...	0700	8.0	522	994	24.8
15...	1015	36	519	948	24.0
23...	0925	21	521	933	25.6
30...	0930	30	561	878	25.2
JUNE					
07...	1140	31	495	936	26.7
11...	1115	28	514	920	27.2
20...	1100	31	528	966	28.0
28...	1100	34	511	913	28.0
JULY					
02...	1030	28	510	910	27.5
11...	1000	27	534	997	28.0
16...	1000	30	539	990	28.0
25...	0945	28	517	915	28.5
AUG.					
01...	1400	31	523	955	31.0
07...	1120	30	563	1010	30.0
14...	1200	31	512	972	29.5
22...	1435	30	557	1100	31.0
27...	1110	33	469	978	28.5
SEP.					
03...	1140	34	494	957	29.1
11...	0935	30	512	919	28.2
18...	1310	30	516	932	30.0
26...	1050	31	562	951	28.5

11059100 SAN BERNARDINO WATER QUALITY CONTROL PLANT AT SAN BERNARDINO, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1010	955	986	1050	990	1010	---	---	---	---	---	---
2	1040	963	999	1040	979	1000	---	---	---	---	---	---
3	1020	959	989	1040	975	1010	984	909	952	---	---	---
4	1050	943	1010	---	---	---	982	923	962	---	---	---
5	1000	920	963	---	---	---	968	905	948	---	---	---
6	975	928	959	---	---	---	965	894	943	---	---	---
7	975	912	945	---	---	---	955	887	935	---	---	---
8	---	---	---	---	---	---	952	896	930	---	---	---
9	---	---	---	---	---	---	925	869	905	1040	1020	1030
10	1100	920	966	---	---	---	1030	918	952	1050	1000	1030
11	1100	998	1060	---	---	---	1060	1000	1030	1040	1000	1030
12	1050	998	1020	---	---	---	1070	1020	1050	1000	946	972
13	1030	975	998	---	---	---	1060	1040	1050	940	872	917
14	982	920	955	1050	980	1020	1040	998	1030	995	847	920
15	1010	924	967	1050	988	1030	1060	1040	1040	1000	926	975
16	1030	982	1010	1050	996	1030	1050	979	1010	1050	964	1010
17	1050	994	1030	1040	916	968	1000	939	975	1140	1010	1060
18	1040	979	1010	---	---	---	1020	979	1000	1130	1030	1080
19	1030	955	1000	---	---	---	1020	943	987	1046	981	1020
20	1030	959	1000	---	---	---	1040	943	992	1050	976	1010
21	1000	963	979	---	---	---	1030	975	993	1060	939	1000
22	---	---	---	---	---	---	---	---	---	1040	1010	1060
23	1020	963	986	---	---	---	---	---	---	1050	988	1020
24	1030	990	1010	---	---	---	---	---	---	1050	946	1020
25	1030	998	1020	---	---	---	---	---	---	1050	975	1030
26	1030	998	1020	---	---	---	---	---	---	1070	1010	1050
27	1020	975	994	---	---	---	---	---	---	1040	977	1020
28	990	955	977	---	---	---	---	---	---	1080	974	1030
29	1010	971	990	990	900	961	---	---	---	1060	1020	1060
30	---	---	---	990	896	957	1000	959	975	1100	1060	1080
31	---	---	---	---	---	---	1000	951	980	1100	1040	1080
MONTH	1100	912	994	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1080	1040	1070	---	---	---	1020	943	966	1060	990	1010
2	---	---	---	---	---	---	1030	924	997	1080	1000	1040
3	---	---	---	---	---	---	1080	1010	1040	1070	990	1030
4	---	---	---	---	---	---	1050	978	1020	1030	970	1010
5	---	---	---	---	---	---	1050	974	1020	1020	920	971
6	---	---	---	---	---	---	1030	958	992	1170	1000	1070
7	---	---	---	---	---	---	994	940	972	1130	1030	1070
8	1040	988	1020	---	---	---	1020	949	986	1140	942	1050
9	1030	934	976	---	---	---	1000	952	985	1150	986	1050
10	939	859	919	---	---	---	1060	964	1020	1060	964	1020
11	1030	900	955	1130	1010	1100	1110	964	1030	998	946	979
12	1050	992	1040	1140	1050	1100	1070	961	1030	1000	946	970
13	1030	993	1010	1170	1060	1120	1050	946	991	986	928	962
14	1030	1010	1030	1160	1070	1120	967	912	953	1030	936	987
15	1070	1010	1040	1160	1050	1130	1030	896	966	1060	940	1000
16	1040	997	1030	1150	1040	1060	1010	936	978	1040	949	1010
17	1030	1000	1020	1090	1000	1040	970	928	955	990	924	964
18	1060	1000	1020	---	---	---	1010	924	969	1010	952	987
19	1040	1010	1050	---	---	---	998	946	977	998	943	972
20	1090	1040	1080	---	---	---	1000	967	984	974	912	947
21	1090	1020	1050	---	---	---	990	940	964	1010	932	972
22	---	---	---	---	---	---	1060	924	982	1030	955	989
23	---	---	---	---	---	---	---	---	---	1010	928	974
24	---	---	---	---	---	---	1070	955	1010	1070	920	984
25	---	---	---	---	---	---	1040	970	1010	964	824	911
26	---	---	---	---	---	---	1140	976	1060	912	820	869
27	---	---	---	---	---	---	1080	978	1030	932	806	868
28	---	---	---	---	---	---	990	915	956	986	812	865
29	---	---	---	1100	980	1060	1000	907	950	946	826	902
30	---	---	---	1070	995	1030	1000	920	970	936	848	905
31	---	---	---	1010	970	992	---	---	---	949	832	900
MONTH	---	---	---	---	---	---	1140	896	993	1170	806	976

11059100 SAN BERNARDINO WATER QUALITY CONTROL PLANT AT SAN BERNARDINO, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	940	824	896	993	899	945	1010	899	950	1020	927	979
2	916	820	876	1010	910	952	973	878	913	1020	969	994
3	967	828	883	1050	945	1010	935	865	904	1040	957	1000
4	967	848	923	1040	947	990	916	867	894	1030	932	986
5	1050	876	958	991	937	969	939	885	908	1010	936	973
6	1100	955	1020	1010	896	960	---	---	---	968	902	947
7	1080	928	1010	955	906	939	1050	1000	1020	969	855	917
8	1070	920	1010	1010	905	951	1010	938	971	942	844	898
9	974	872	930	1050	928	979	974	880	937	978	837	904
10	1060	872	965	1030	952	996	950	864	923	939	817	887
11	1010	892	965	1060	948	1010	950	864	910	960	877	914
12	1070	918	990	1090	972	1040	966	864	910	959	845	903
13	1060	973	1020	1060	926	997	1010	884	949	962	867	922
14	1040	941	997	992	922	962	1050	954	988	1010	867	932
15	1010	907	968	1040	906	958	1020	934	967	965	803	879
16	986	900	946	1060	960	1010	1040	936	977	968	858	916
17	1090	934	996	1060	949	1010	998	904	959	999	889	959
18	1080	973	1030	1020	906	978	957	891	928	1050	927	988
19	1100	968	1040	1010	932	979	972	894	931	1040	924	978
20	1080	964	1030	987	873	935	994	913	961	963	881	921
21	1120	979	1040	946	891	923	1070	945	1000	997	876	924
22	1020	914	972	1000	893	948	1120	972	1040	913	858	892
23	978	880	945	1030	923	964	1170	966	1050	1010	821	914
24	1130	894	990	990	860	937	1060	951	996	1020	895	957
25	1110	986	1040	964	866	921	998	940	973	1020	924	960
26	1040	909	982	986	872	916	1080	950	1010	1080	926	984
27	1040	906	986	999	865	924	1080	975	1030	1040	924	1000
28	1100	913	1000	929	839	888	1040	945	1000	1030	913	963
29	1050	965	1010	950	832	906	1050	947	995	1010	889	936
30	997	914	965	952	862	912	1070	967	1010	1010	884	954
31	---	---	---	997	843	920	1060	950	995	---	---	---
MONTH	1130	820	979	1090	832	959	1170	864	967	1080	803	943

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CALIF.

LOCATION.--Lat 33°58'04", long 117°26'46", in NE¼NE¼SW¼ sec. 30, T.2 S., R.5 W., Riverside County, at gaging station on left bank, 300 ft (91 m) upstream from MWD Crossing, 0.7 mi (1.1 km) downstream from Union Pacific Railroad bridge, 1.2 mi (1.9 km) upstream from bridge on Van Buren Boulevard, and 3.3 mi (5.3 km) north of Arlington.

DRAINAGE AREA.--854 mi^2 (2,112 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1969 to current year.
Specific conductance: October 1969 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum recorded, 1,150 micromhos Oct. 12; minimum recorded, 242 micromhos Jan. 7.
Period of record:
Specific conductance: Maximum recorded, 1,320 micromhos Nov. 4, 1969; minimum, 95 micromhos Nov. 27, 1970.

REMARKS.--Specific conductance probe or recorder malfunction Nov. 15-19, Dec. 1, 2, 9-19, Jan. 1-4; equipment malfunction in temperature compensator Jan. 19 to Sept. 30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
JAN.								
05...	1230	366	2.7	.10	.33	2.7	.40	6.4
07...	1155	634	--	--	--	--	.24	5.4
10...	1310	61	7.0	.07	.23	7.1	1.3	.50
JUNE								
19...	1300	21	9.3	.43	1.4	9.6	.81	.89
SEP.								
11...	1100	19	9.7	.30	1.0	10	.37	.04

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)	TOTAL [illegible]NIC [illegible]ON [illegible]C) (MG/L)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)
JAN.							
05...	6.8	--	4.5	.63	--	48	--
07...	5.6	--	2.8	--	--	--	--
10...	1.8	--	.96	.55	--	9.9	--
JUNE							
19...	1.7	--	.87	.68	--	3.1	--
SEP.							
11...	.41	400	.71	.60	970	8.6	<.1

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT.					
01...	1200	20	687	1120	--
08...	1015	21	681	1090	--
18...	1015	22	681	1100	--
25...	1300	20	675	1110	25.5
NOV.					
06...	1030	20	670	1080	17.0
14...	1245	23	673	1090	19.5
20...	1345	23	688	1120	18.5
27...	1430	23	706	1110	19.0
DEC.					
03...	1300	23	688	1090	28.0
11...	1255	23	676	1090	18.0
20...	1400	25	658	1090	18.0
26...	0915	23	666	1080	14.0
JAN.					
02...	1030	26	636	1040	--
07...	1445	2250	190	297	--
17...	0900	43	533	882	15.5
24...	1230	26	690	1110	17.5
FEB.					
07...	1300	29	772	1100	18.5
14...	1240	45	702	1140	18.2
21...	1125	32	659	1080	16.2
28...	1050	29	668	1090	16.2
MAR.					
07...	1100	40	658	1090	14.5
11...	1150	33	660	1110	20.8
22...	1100	30	673	1080	18.5
25...	1315	32	669	1070	19.8
APR.					
04...	0955	35	680	1100	19.0
11...	1010	27	680	1100	17.8
17...	1200	28	682	1090	23.7
26...	1315	24	689	1100	24.8
30...	1045	27	691	1100	23.2
MAY					
07...	1045	30	670	1080	18.8
15...	1315	26	677	1100	20.0
23...	1310	24	681	1100	26.5
30...	1200	23	695	1090	21.0
JUNE					
06...	1120	26	677	1090	20.4
11...	1150	25	682	1090	24.6
20...	1315	22	680	1100	29.0
28...	1240	19	676	1100	30.0
JULY					
01...	1130	22	674	1100	24.2
11...	1055	21	701	1100	23.2
16...	0900	21	701	1100	21.0
25...	1210	19	691	1100	28.0
AUG.					
01...	1030	19	695	1090	24.5
07...	0930	19	698	1100	22.0
13...	1100	19	689	1100	22.5
20...	1000	19	685	1090	20.5
27...	0930	19	683	1100	19.8
SEP.					
03...	0945	20	673	1090	26.3
11...	1125	19	703	1110	22.8
18...	1220	20	704	1090	22.5
26...	1215	19	707	1110	20.5

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ALDRIN (UG/L)	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)
JAN.											
05...	1230	.00	--	.2	--	.02	--	.03	--	.14	--
10...	1310	.00	--	.0	--	.00	--	.01	--	.01	--
MAR.											
08...	1220	.00	--	.1	--	.02	--	.03	--	.08	--
SEP.											
11...	1100	.00	.0	.0	1	.00	.3	.00	.0	.00	.2

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
JAN.										
05...	.05	.04	--	.00	--	.00	--	.00	--	.00
10...	.02	.01	--	.00	--	.00	--	.00	--	.00
MAR.										
08...	.10	.04	--	.00	--	.00	--	.00	--	.00
SEP.										
11...	.00	.00	.0	.00	.0	.00	.0	.00	.0	.03

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL SILVEX (UG/L)	TOTAL 2,4,5-T (UG/L)
JAN.										
05...	--	.00	.00	.00	.0	--	--	.09	.00	.00
10...	--	.00	.00	.00	.0	--	--	.00	.00	.00
MAR.										
08...	--	.00	.00	.00	.0	--	--	.04	.00	.00
SEP.										
11...	.0	.00	.00	.00	.0	2	0	.00	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)	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)
JAN.									
05...	1230	13	7	6	--	10	10	0	--
07...	1155	9	--	--	--	10	--	--	--
10...	1310	3	0	3	--	<10	9	1	--
JUNE									
19...	1300	1	0	1	--	<10	<9	1	--
SEP.									
11...	1100	2	1	1	1	<10	<9	<1	<1

DATE	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)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)
JAN.									
05...	120	--	0	100	100	0	170	160	8
07...	150	--	--	150	--	--	180	--	--
10...	0	--	0	50	50	0	<10	0	10
JUNE									
19...	0	--	0	<50	<50	0	<10	<1	9
SEP.									
11...	0	3	0	<50	<50	0	10	6	4

DATE	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JAN.									
05...	400	400	0	.8	.7	.1	550	520	30
07...	400	--	--	.4	--	--	660	--	--
10...	<100	100	0	.1	.1	.0	100	70	30
JUNE									
19...	<100	<98	2	.7	.7	.0	30	20	10
SEP.									
11...	<100	<97	3	.1	.0	.1	20	10	10

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUAPY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1140	1080	1120	1110	1060	1090	---	---	---	---	---	---
2	1100	1060	1080	1100	1060	1090	---	---	---	---	---	---
3	1090	1060	1070	1100	1060	1090	1110	1070	1090	---	---	---
4	1110	1070	1090	1100	1060	1080	1110	1060	1100	---	---	---
5	1100	1030	1080	1100	1080	1090	1110	1080	1090	750	322	452
6	1100	1040	1070	1090	1050	1060	1140	1060	1110	896	673	807
7	1100	1080	1090	1080	1040	1060	1140	1100	1110	728	242	392
8	1120	1080	1090	1090	1040	1060	1130	1060	1100	636	293	481
9	1100	1080	1090	1090	1040	1070	---	---	---	856	695	776
10	1130	1080	1100	1090	1040	1060	---	---	---	806	695	757
11	1130	1070	1100	1080	1040	1060	---	---	---	735	710	718
12	1150	1110	1120	1080	1040	1060	---	---	---	943	695	837
13	1140	1110	1120	1080	1040	1060	---	---	---	990	936	958
14	1140	1070	1120	1090	1050	1060	---	---	---	1100	940	1010
15	1130	1080	1110	---	---	---	---	---	---	1100	1040	1070
16	1120	1100	1110	---	---	---	---	---	---	1080	1040	1060
17	1130	1080	1100	---	---	---	---	---	---	1070	876	996
18	1130	1100	1110	---	---	---	---	---	---	1100	1060	1080
19	1120	1060	1100	---	---	---	---	---	---	---	---	1070
20	1120	1060	1100	1120	1060	1090	1090	1050	1070	---	---	1070
21	1120	1090	1100	1120	1060	1110	1120	1060	1080	---	---	1080
22	1110	1060	1100	1130	1020	1100	1100	1060	1080	---	---	1090
23	1110	1060	1090	1070	369	837	1090	1030	1070	---	---	1090
24	1110	1060	1080	1120	1050	1080	1120	1080	1090	---	---	1090
25	1120	1060	1080	1120	996	1080	1140	1080	1110	---	---	1080
26	1110	1060	1080	1110	1040	1090	1080	1040	1070	---	---	1070
27	1130	1070	1090	1110	1050	1070	1090	1030	1060	---	---	1060
28	1120	1080	1100	1100	1040	1060	1100	1040	1080	---	---	1060
29	1110	1060	1080	1100	1070	1090	1130	1060	1080	---	---	1060
30	1110	1060	1090	1100	1070	1080	1130	1070	1100	---	---	1060
31	1090	1060	1070	---	---	---	1090	1040	1070	---	---	1070
MONTH	1150	1030	1090	1130	369	1070	---	---	---	---	---	939

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1			---			---			---			1080
2			1060			---			---			1080
3			1070			---			---			1080
4			1070			1050			---			1080
5			1070			1080			1060			1080
6			1070			1070			1070			1080
7			1070			---			1070			1070
8			1070			---			1080			1070
9			1060			---			1080			1070
10			1060			---			1080			1080
11			1060			1060			1080			1080
12			1060			1060			1080			1080
13			1060			1070			1080			1080
14			---			1060			1090			1080
15			1050			1060			1080			1080
16			1060			1060			1080			1080
17			---			1070			1080			1080
18			1060			1060			1080			1080
19			1060			1070			1080			1080
20			1060			1070			1080			1080
21			1070			1070			1080			1080
22			1060			1070			1080			1080
23			1060			1070			1080			1080
24			1070			1070			1080			1080
25			1070			1060			1080			1090
26			1070			1060			1080			1080
27			1070			1060			1080			1080
28			---			1060			1090			1080
29			---			---			1080			1080
30			---			---			1080			1080
31			---			---			---			1080
MONTH			1060			---			1080			1080

11066460 SANTA ANA RIVER AT MWD CROSSING, NEAR ARLINGTON, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	1100	---	---	1100	---	---	1110	---	---	1110
2	---	---	1100	---	---	1110	---	---	1110	---	---	1110
3	---	---	1090	---	---	1110	---	---	1110	---	---	1110
4	---	---	1090	---	---	1110	---	---	1110	---	---	1110
5	---	---	1090	---	---	1110	---	---	1110	---	---	1110
6	---	---	1090	---	---	1110	---	---	1110	---	---	1110
7	---	---	1090	---	---	1110	---	---	1110	---	---	1110
8	---	---	1090	---	---	1110	---	---	1110	---	---	1110
9	---	---	1090	---	---	1110	---	---	1110	---	---	1110
10	---	---	1100	---	---	1110	---	---	1110	---	---	1110
11	---	---	1100	---	---	1110	---	---	1110	---	---	1110
12	---	---	1100	---	---	1110	---	---	1110	---	---	1110
13	---	---	1100	---	---	1110	---	---	1110	---	---	1110
14	---	---	1110	---	---	1110	---	---	1110	---	---	1110
15	---	---	1110	---	---	1110	---	---	1110	---	---	1110
16	---	---	1110	---	---	1110	---	---	1110	---	---	1110
17	---	---	1100	---	---	1110	---	---	1110	---	---	1110
18	---	---	1100	---	---	1110	---	---	1110	---	---	1110
19	---	---	1100	---	---	1110	---	---	1110	---	---	1110
20	---	---	1100	---	---	1110	---	---	1110	---	---	1110
21	---	---	1100	---	---	1110	---	---	1110	---	---	1110
22	---	---	1100	---	---	1110	---	---	1110	---	---	1110
23	---	---	1100	---	---	1110	---	---	1110	---	---	1110
24	---	---	1100	---	---	1110	---	---	1110	---	---	1110
25	---	---	1100	---	---	1110	---	---	1110	---	---	1110
26	---	---	1110	---	---	1110	---	---	1110	---	---	1110
27	---	---	1110	---	---	1110	---	---	1110	---	---	1110
28	---	---	1110	---	---	1110	---	---	1110	---	---	1110
29	---	---	1110	---	---	1110	---	---	1110	---	---	1110
30	---	---	1110	---	---	1110	---	---	1110	---	---	1110
31	---	---	---	---	---	1110	---	---	1110	---	---	---
MONTH	---	---	1100	---	---	1110	---	---	1110	---	---	1110

11066480 RIVERSIDE WATER QUALITY CONTROL PLANT AT RIVERSIDE NARROWS, NEAR ARLINGTON, CALIF.

LOCATION.--Lat 33°57'53", long 117°27'26", in SE¼NE¼SE¼ sec.25, T.2 S., R.6 W., Riverside County, 0.3 mi (0.5 km) downstream from gaging station, on drop structure of Riverside Water Quality Control Plant on left bank of Santa Ana River, 0.4 mi (0.6 km) upstream from Van Buren Boulevard, and 3.1 mi (5.0 km) northwest of Arlington.

PERIOD OF RECORD.--Chemical analyses: October 1969 to current year.
Specific conductance: October 1969 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum recorded, 1,460 micromhos Feb. 27; minimum, 760 micromhos July 3.
Period of record:
Specific conductance: Maximum, 1,740 micromhos Oct. 29, 1971; minimum, 672 micromhos May 5, 1971.

REMARKS.--Recorder malfunction Nov. 4, 5, Apr. 25-30. Specific conductance probe moved July 19 from a discharge pipe to site on drop structure in holding pond at Riverside Water Control Plant site.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT.					
01...	1330	35	582	972	--
08...	0955	34	569	968	--
18...	1250	30	626	1100	--
25...	1430	31	575	1020	27.0
NOV.					
05...	1420	34	599	1060	24.0
14...	1225	32	603	1040	24.0
20...	1325	33	603	1040	23.5
27...	1450	23	505	909	22.5
DEC.					
04...	1000	35	530	925	21.5
11...	1430	30	538	950	22.5
20...	1315	34	483	910	21.5
26...	1000	24	485	850	--
JAN.					
02...	1000	31	503	885	--
17...	1015	33	554	969	22.0
22...	1210	31	529	911	18.0
31...	1145	35	756	1150	21.0
FEB.					
07...	1248	36	783	1190	19.2
14...	1210	35	667	1200	20.5
21...	1230	39	692	1230	20.2
28...	0955	29	723	1300	20.7
MAR.					
07...	1220	32	609	1110	20.0
11...	1115	36	633	1180	21.2
20...	1055	33	589	1110	22.5
26...	0945	31	579	1030	22.5
APR.					
04...	1130	35	700	1210	23.3
11...	1050	36	704	1200	23.0
17...	1115	36	519	1290	23.6
25...	1200	37	692	1170	23.2
MAY					
01...	1345	32	728	1230	25.3
07...	1015	35	584	980	24.2
15...	1245	36	600	1010	24.5
23...	1245	36	631	1120	24.5
30...	1225	40	639	1080	25.1
JUNE					
06...	1040	35	650	1120	25.6
11...	1215	36	647	1100	26.0
20...	1355	34	695	1180	26.5
28...	1300	35	735	1240	27.0
JULY					
01...	0945	27	686	1140	25.5
11...	1120	37	678	1120	26.2
16...	0920	28	685	1110	26.8
22...	1100	40	675	1110	26.5
AUG.					
01...	1230	38	697	1130	29.0
07...	1000	32	674	1100	27.0
13...	1300	37	664	1100	27.5
20...	0935	26	682	1140	26.3
27...	1015	32	692	1160	26.5
SEP.					
03...	0915	26	673	1110	26.0
11...	1145	37	678	1110	27.5
18...	0930	31	702	1140	25.8
26...	1245	34	680	1120	26.5

11066480 RIVERSIDE WATER QUALITY CONTROL PLANT AT RIVERSIDE NARROWS, NEAR ARLINGTON, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1070	972	1040	1150	985	1090	953	858	918	925	839	879
2	1070	949	1020	1140	1000	1090	949	821	880	970	843	921
3	1110	939	1020	1140	1050	1090	953	813	888	1050	907	982
4	1130	1020	1080	---	---	---	936	858	906	1030	846	947
5	1090	974	1050	1210	1060	1140	1000	846	906	1010	762	870
6	1120	1060	1080	1220	1070	1150	1000	849	909	993	901	960
7	1060	970	1010	1120	1030	1090	946	810	872	966	809	906
8	1010	949	979	1100	1020	1060	981	799	880	1050	805	917
9	1020	981	998	1100	1050	1080	967	777	868	1130	928	1040
10	1020	956	999	1090	992	1030	996	880	940	1120	997	1070
11	1070	992	1020	1010	939	985	978	889	929	1110	974	1060
12	1120	1050	1100	1130	970	1030	981	877	926	1110	1020	1080
13	1120	1060	1100	1160	970	1100	978	886	936	1090	894	1050
14	1070	1000	1040	1180	1030	1090	1020	892	953	1030	920	999
15	1100	996	1060	1100	1020	1060	988	902	948	1080	979	1030
16	1110	1050	1090	1120	1000	1050	949	877	917	1060	984	1030
17	1100	1020	1080	1120	1000	1060	953	870	917	1020	969	1010
18	1160	1070	1110	1050	919	965	963	870	927	1010	915	980
19	1200	1030	1120	985	858	921	949	877	914	1010	942	978
20	1170	1060	1120	1060	963	1000	960	889	939	967	909	946
21	1120	1000	1070	1030	978	1020	1000	880	941	974	874	937
22	1120	899	1040	1010	932	974	985	886	932	1030	906	967
23	1130	988	1070	949	883	926	949	870	909	1060	883	1010
24	1110	963	1050	988	925	960	963	886	926	1140	979	1050
25	1090	953	1020	985	932	970	929	896	914	1210	1060	1140
26	1130	981	1060	932	855	891	932	846	897	1180	1060	1140
27	1100	1000	1060	981	821	909	1060	906	963	1180	1060	1130
28	1060	996	1040	992	849	919	1080	988	1030	1280	1060	1160
29	1110	970	1040	992	864	949	1060	967	1010	1280	1140	1220
30	1120	1030	1100	967	892	941	1060	960	997	1290	1080	1210
31	1120	992	1070	---	---	---	960	870	927	1320	1140	1230
MONTH	1200	899	1060	1220	821	1020	1080	777	926	1320	762	1030

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1240	1120	1200	1280	1110	1200	1090	864	987	1330	1230	1280
2	1220	1100	1160	1180	1050	1140	1140	978	1060	1270	1150	1200
3	1150	1050	1100	1230	1050	1160	1180	1080	1140	1250	1120	1200
4	1200	1010	1100	1220	1010	1160	1290	1180	1230	1160	1050	1100
5	1330	1080	1190	1240	1040	1140	1260	1160	1220	1040	961	1010
6	1340	1160	1260	1200	1070	1150	1200	1110	1160	1030	917	978
7	1310	1180	1260	1200	1100	1150	1220	1030	1140	988	864	958
8	1260	1150	1220	1140	1010	1090	1340	970	1190	1030	946	990
9	1240	1190	1210	1190	1090	1140	1330	1200	1260	1130	978	1040
10	1190	1100	1150	1230	1010	1170	1310	1140	1280	1150	1040	1100
11	1190	1080	1150	1260	1120	1200	1380	1150	1250	1060	942	983
12	1220	1160	1190	1190	1100	1150	1310	1200	1270	939	877	914
13	1320	1150	1240	1170	1060	1120	1270	1170	1210	1020	889	933
14	1350	1170	1260	1170	1000	1100	1350	1130	1240	1070	861	974
15	1250	1100	1200	1140	922	1050	1420	1240	1340	1050	942	1010
16	1240	1110	1180	1090	922	1030	1450	1310	1370	1060	914	1010
17	1190	1090	1140	1070	977	1040	1340	1200	1300	1060	879	981
18	1260	1140	1190	1170	966	1070	1330	1120	1240	1030	955	981
19	1280	1090	1210	1130	1010	1070	1410	1160	1300	988	944	972
20	1310	1160	1250	1170	1110	1140	1360	1160	1260	1040	914	986
21	1290	1200	1270	1160	1050	1110	1260	1070	1190	1140	923	1040
22	1250	1170	1230	1240	1060	1160	1270	1060	1170	1200	1080	1140
23	1280	1150	1230	1170	931	1100	1330	1170	1240	1180	1070	1130
24	1230	1070	1130	1070	940	1020	1370	1230	1290	1260	1090	1170
25	1220	962	1130	1120	926	1010	1260	1140	1220	1200	1140	1180
26	1380	1100	1210	1130	978	1080	---	---	---	1180	1050	1110
27	1460	1240	1360	1080	1010	1040	---	---	---	1190	1040	1120
28	1440	1240	1350	1090	960	1040	---	---	---	1210	1070	1150
29	---	---	---	1120	963	1030	---	---	---	1200	1070	1170
30	---	---	---	1070	880	982	---	---	---	1170	1070	1120
31	---	---	---	1020	843	932	---	---	---	1220	1120	1160
MONTH	1460	962	1210	1280	843	1100	1450	864	1220	1330	861	1070

11066480 RIVERSIDE WATER QUALITY CONTROL PLANT AT RIVERSIDE NARROWS, NEAR ARLINGTON, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1190	1000	1110	1210	1080	1160	1190	1130	1170	1140	1050	1090
2	1110	994	1050	1220	1030	1170	1220	1150	1180	1110	1040	1070
3	1190	974	1060	1220	760	1140	1210	1130	1160	1150	1090	1120
4	1170	1030	1100	1250	1150	1200	1170	1090	1140	1180	1120	1150
5	1220	1080	1150	1220	1090	1170	1170	1100	1140	1200	1120	1150
6	1220	1110	1160	1170	1030	1130	1150	1110	1140	1360	1210	1250
7	1140	1070	1110	1180	1060	1120	1180	1100	1140	1230	1130	1170
8	1110	1020	1070	1210	1030	1130	1130	1100	1140	1130	1050	1100
9	1040	968	1010	1240	1140	1190	1220	1130	1180	1140	1060	1100
10	1170	959	1050	1260	1140	1220	1220	1140	1180	1160	1100	1130
11	1160	1050	1100	1220	1010	1120	1170	1090	1130	1160	1100	1150
12	1120	1010	1080	1240	1010	1130	1160	1070	1110	1170	1120	1150
13	1120	1030	1080	1190	1080	1150	1160	1100	1140	1170	1100	1160
14	1190	1050	1110	1190	1090	1140	1160	1070	1130	1160	1050	1100
15	1180	1090	1140	1160	965	1120	1160	1080	1130	1090	1000	1050
16	1120	1020	1080	1210	1020	1150	1160	1100	1140	1150	1000	1060
17	1240	1070	1160	1220	1150	1190	1160	1120	1150	1210	1100	1150
18	1210	1090	1160	1210	1130	1180	1140	1090	1120	1190	1110	1150
19	1240	1060	1170	1210	1050	1190	1160	1100	1140	1170	1080	1130
20	1220	1100	1180	1230	1170	1200	1190	1110	1150	1140	1080	1120
21	1200	1140	1180	1210	1140	1170	1190	1120	1150	1140	1080	1110
22	1200	1040	1120	1200	1110	1160	1160	1090	1140	1130	1050	1100
23	1110	1020	1060	1200	1130	1170	1190	1130	1160	1180	1040	1110
24	1200	1030	1110	1250	1190	1220	1190	1100	1150	1190	1130	1160
25	1250	1180	1220	1220	1150	1190	1150	1070	1110	1190	1130	1170
26	1320	1180	1260	1260	1160	1200	1170	1050	1110	1190	1120	1150
27	1300	1200	1260	1260	1190	1210	1160	1130	1160	1190	1110	1150
28	1330	1190	1260	1180	1150	1170	1190	1140	1170	1180	1080	1120
29	1340	1200	1280	1200	1120	1160	1200	1160	1190	1100	1040	1080
30	1300	1170	1240	1220	1170	1200	1230	1170	1200	1100	997	1050
31	---	---	---	1200	1150	1180	1230	1150	1180	---	---	---
MONTH	1340	959	1140	1260	760	1170	1230	1050	1150	1360	997	1130

11073210 RIALTO PIPELINE BELOW SAN ANTONIO DAM, NEAR CLAREMONT, CALIF.

LOCATION.--Lat 34°07'43", long 117°41'29", in NW¼NE¼SW¼ sec.35, T.1 N., R.8 W., Los Angeles County, 0.5 mi (0.8 km) north of Baseline Road, and 2.1 mi (3.4 km) downstream from San Antonio Dam.

PERIOD OF RECORD.--Chemical analyses: March to September 1974.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
MAR.									
28...	0945	100	10	30	22	10	40	2.5	91
APR.									
09...	1115	50	9.9	40	23	11	40	3.3	91
24...	0930	50	9.5	20	23	10	40	2.4	91
MAY									
09...	0930	100	9.1	20	23	10	40	2.4	90
23...	0900	100	9.3	50	23	11	39	2.5	92
JUNE									
07...	0930	150	9.3	80	24	11	39	2.4	93
20...	0930	150	9.5	20	26	11	41	2.5	93
JULY									
02...	0920	148	9.6	20	23	11	34	3.1	93
17...	0905	200	9.6	10	23	11	40	2.4	93
AUG.									
02...	1330	200	9.2	20	23	9.8	39	2.8	94
14...	1100	200	9.6	30	24	11	39	2.3	93
27...	1000	200	9.5	70	24	11	37	3.0	94
SEP.									
13...	0900	110	8.8	10	21	9.8	33	2.2	93

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFIDE (S) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
MAR.									
28...	0	75	38	48	.3	.69	219	.30	59.1
APR.									
09...	0	75	41	52	.9	.46	228	.31	30.8
24...	0	75	42	50	.3	.43	224	.30	30.2
MAY									
09...	0	74	43	49	.3	.40	223	.30	60.2
23...	0	75	43	49	.2	.48	225	.31	60.7
JUNE									
07...	0	76	41	51	.1	.38	226	.31	91.5
20...	0	76	42	50	.1	.38	230	.31	93.1
JULY									
02...	0	76	36	47	.1	.40	212	.29	84.7
17...	0	76	45	51	.1	.34	230	.31	124
AUG.									
02...	0	77	43	51	.1	.58	227	.31	123
14...	--	76	43	49	.1	.32	225	.31	121
27...	0	77	41	48	.1	.40	222	.30	120
SEP.									
13...	0	76	35	42	.2	.41	200	.27	59.4

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED BORON (B) (UG/L)
MAR.									
28...	96	21	47	1.8	405	7.7	--	2.9	210
APR.									
09...	100	28	45	1.7	419	7.2	11.0	9.2	220
24...	99	24	46	1.8	410	8.0	13.0	1.5	200
MAY									
09...	99	25	46	1.8	408	7.7	12.5	2.9	260
23...	100	27	45	1.7	413	7.9	13.5	1.9	220
JUNE									
07...	110	29	44	1.7	413	7.9	5.0	1.9	210
20...	110	34	44	1.7	410	8.0	5.4	1.5	210
JULY									
02...	100	26	41	1.5	428	8.0	6.6	1.5	210
17...	100	26	45	1.7	411	8.0	16.0	1.5	200
AUG.									
02...	98	21	46	1.7	414	7.5	18.0	4.8	200
14...	110	29	44	1.7	403	--	18.8	--	210
27...	110	28	42	1.6	394	7.6	18.0	3.8	180
SEP.									
13...	93	17	43	1.5	367	7.9	18.0	1.9	180

11073360 CHINO CREEK AT SCHAEFER AVENUE, NEAR CHINO, CALIF.

LOCATION.--Lat 34°00'14", long 117°43'34", in Santa Ana del Chino Grant, San Bernardino County, at gaging station on right bank 300 ft (90 m) downstream from Schaefer Avenue, 0.8 mi (1.3 km) downstream from San Antonio Creek, and 1.5 mi (2.4 km) southwest of Chino.

DRAINAGE AREA.--48.9 mi^2 (126.7 km^2).

PERIOD OF RECORD.--Chemical analyses: March to September 1974.

WATER QUALITY DATA, MARCH TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
MAR.								
28...	1110	82	10	30	22	10	40	2.5
APR.								
09...	1450	52	9.8	30	39	15	62	3.5
24...	1100	57	8.7	10	23	10	39	2.3
MAY								
09...	1140	100	9.3	40	23	11	39	2.4
23...	1045	100	9.0	20	24	11	39	2.5
JUNE								
07...	0845	160	8.7	30	23	11	39	2.4
20...	1100	150	9.3	20	24	10	40	2.5
JULY								
02...	1040	150	9.2	20	23	10	39	2.5
17...	1000	180	9.4	10	23	10	40	2.3
AUG.								
02...	1130	180	9.1	20	24	11	40	2.5
14...	1230	200	9.6	20	23	11	40	2.3
27...	1100	200	9.3	40	22	11	38	2.5
SEP.								
13...	1000	130	8.6	20	23	10	35	2.4

DATE	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 SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
MAR.									
28...	91	0	75	44	49	.2	225	.31	49.8
APR.									
09...	94	0	77	43	120	.3	341	.46	47.9
24...	96	0	79	43	50	.2	224	.30	34.5
MAY									
09...	90	1	75	46	50	1.0	229	.31	61.8
23...	74	9	76	43	50	.3	226	.31	61.0
JUNE									
07...	95	0	78	41	50	.1	223	.30	96.3
20...	81	8	80	41	49	.1	225	.31	91.1
JULY									
02...	70	14	81	41	46	.1	220	.30	89.1
17...	94	0	77	44	50	.1	226	.31	110
AUG.									
02...	74	13	82	41	50	.1	228	.31	111
14...	71	12	78	44	48	.1	227	.31	123
27...	83	5	76	41	48	.1	218	.30	118
SEP.									
13...	88	4	79	38	43	.2	209	.28	73.4

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED BORON (B) (UG/L)
MAR.								
28...	96	21	47	1.8	404	7.8	4.0	210
APR.								
09...	160	82	45	2.1	652	7.7	14.0	200
24...	99	20	46	1.7	404	8.1	16.0	230
MAY								
09...	100	27	45	1.7	410	8.4	14.8	210
23...	110	30	44	1.7	409	8.8	8.5	250
JUNE								
07...	100	25	45	1.7	417	7.1	6.0	190
20...	100	21	46	1.7	404	9.0	9.4	220
JULY								
02...	99	18	45	1.7	401	9.4	9.4	210
17...	99	23	46	1.8	406	8.1	18.5	210
AUG.								
02...	110	23	45	1.7	403	9.1	21.5	210
14...	100	24	45	1.7	394	--	21.5	200
27...	100	24	44	1.7	--	--	22.0	180
SEP.								
13...	99	20	43	1.5	366	9.0	20.0	170

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.

LOCATION.--Lat 33°53'00", long 117°38'40", in La Sierra Grant, Riverside County, at gaging station at outlet channel, 2,500 ft (762 m) downstream from axis of Prado Dam, and 4.5 mi (7.2 km) west of Corona.

DRAINAGE AREA.--1,490 mi^2 (3,859 km^2), not including 768 mi^2 (1,989 km^2) upstream from Lake Elsinore.

PERIOD OF RECORD.--Chemical analyses: October 1966 to current year.
Chloride: October 1970 to September 1971.
Specific conductance: October 1969 to current year.
Water temperatures: October 1969 to current year.
Sediment records: October 1973 to September 1974.

EXTREMES.--Current year:
Specific conductance: Maximum recorded, 1,670 micromhos Nov. 19; minimum recorded, 447 micromhos Jan. 9.
Water temperatures: Maximum, 26.0°C June 14; minimum recorded, 5.0°C Jan. 28.
Sediment concentrations: Maximum daily, 1,300 mg/l Jan. 8; minimum daily, 25 mg/l Mar. 14-16.
Sediment discharge: Maximum daily, 5,050 tons (4,580 tonnes) Jan. 8; minimum daily, 12 tons (11 tonnes) Nov. 28, Dec. 1, 3, 4.
Period of record:
Specific conductance: Maximum, 1,830 micromhos Apr. 30, 1971; minimum, 350 micromhos Mar. 17, 1971.
Water temperatures: Maximum, 36.0°C Sept. 4, 1972; minimum, 2.5°C Dec. 30, 1969.
Sediment concentrations: Maximum daily, 1,300 mg/l Jan. 8, 1974; minimum daily, 25 mg/l Mar. 14-16, 1974.
Sediment discharge: Maximum daily, 5,050 tons (4,580 tonnes) Jan. 8, 1974; minimum daily 12 tons (11 tonnes) Nov. 28, Dec. 1, 3, 4, 1973.

REMARKS.--Selected chemical analyses furnished by California Department of Water Resources. Periods of missing conductivity and temperature record due to recorder malfunction or probe out of water.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT.					
02...	1415	132	761	1240	19.0
10...	1055	57	806	1300	14.5
18...	1545	60	742	1210	20.0
25...	1630	69	748	1220	23.0
NOV.					
05...	1400	61	757	[illegible]	14.2
14...	1330	75	730	[illegible]	--
21...	1145	71	785	1200	11.7
28...	1000	77	764	1250	11.0
DEC.					
04...	1245	88	745	1210	9.8
11...	1050	256	426	714	9.6
20...	0930	90	706	1170	8.5
28...	1445	273	400	684	11.5
JAN.					
05...	1115	750	464	767	--
16...	1500	333	629	1050	12.5
23...	1330	104	735	1230	11.5
FEB.					
08...	1030	298	483	662	7.5
15...	1020	249	444	768	9.3
20...	0930	245	452	773	7.5
MAR.					
01...	1110	158	674	1150	14.0
07...	1300	140	723	1220	12.3
12...	1215	206	393	692	12.0
12...	1230	210	394	684	12.0
20...	1230	168	752	1220	14.5
26...	1345	150	491	818	14.6
APR.					
02...	1300	263	356	610	15.0
11...	1445	115	556	931	18.2
19...	1200	123	566	946	14.2
25...	0915	133	564	933	12.7
30...	1445	70	724	1180	22.9
MAY					
08...	1000	191	463	788	16.2
16...	1255	173	451	770	17.2
22...	1205	184	430	742	16.0
31...	1255	180	395	648	15.5
JUNE					
04...	1145	206	386	652	16.4
12...	1110	220	376	663	17.2
21...	1100	194	370	648	16.5
27...	1130	174	363	625	17.8
JULY					
01...	1430	183	362	623	16.6
10...	0930	212	336	569	17.5
15...	1040	212	346	577	19.0
24...	1025	212	325	556	19.3
AUG.					
02...	0850	236	329	551	19.3
06...	1045	233	337	556	19.9
16...	0900	227	325	547	16.8
21...	1000	224	326	569	18.2
27...	0835	230	306	547	17.2
SEP.					
04...	1100	138	353	611	20.5
12...	0930	145	380	636	19.5
19...	0900	145	385	639	18.7
25...	1010	135	377	616	19.5

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT.										
05...	1015	183	30	170	--	100	24	120	14	352
10...	1030	55	27	80	--	120	30	120	8.1	353
18...	1545	60	26	40	--	100	24	120	9.8	316
26...	1200	66	26	30	--	100	26	120	9.1	348
NOV.										
08...	1430	66	27	30	--	100	26	120	9.2	328
16...	1300	71	27	20	--	110	26	110	9.1	351
21...	1145	71	24	30	--	110	27	120	12	312
28...	1015	77	25	20	--	110	27	120	9.3	326
DEC.										
04...	1400	90	27	30	--	100	26	110	9.5	326
10...	1420	273	13	40	90	51	16	70	6.7	186
JAN.										
05...	1045	750	--	--	--	--	--	--	--	--
07...	1000	750	--	--	--	--	--	--	--	--
10...	1400	350	--	--	--	--	--	--	--	--
11...	1600	347	8.9	80	--	41	8.9	36	13	133
16...	1500	333	21	80	--	84	21	91	10	258
23...	1115	104	27	20	750	100	25	110	9.7	334
FEB.										
01...	1015	263	20	40	--	81	21	89	8.8	277
08...	1100	298	15	50	180	49	15	59	5.8	168
15...	1045	249	15	40	--	59	17	69	6.5	195
20...	1120	239	17	60	--	59	17	67	5.4	195
MAR.										
01...	1315	158	21	30	--	93	25	110	9.9	298
07...	1200	143	26	120	--	100	24	110	9.6	346
20...	1210	168	27	30	660	100	25	110	11	341
29...	1145	230	19	20	--	67	18	74	7.3	231
APR.										
02...	1230	259	11	50	--	46	13	51	6.4	165
11...	1510	115	20	20	--	74	19	84	7.2	244
19...	1200	123	20	20	--	75	20	84	6.5	247
25...	1130	130	21	70	--	77	20	80	6.8	230
30...	1530	68	28	30	--	100	24	110	8.6	303
MAY										
08...	1030	191	18	60	--	61	17	72	5.8	205
16...	1320	173	18	20	--	57	16	69	5.4	196
22...	1230	184	16	20	--	55	16	71	5.2	182
31...	1300	130	14	40	180	47	15	58	4.6	169
JUNE										
04...	1200	206	17	40	--	48	14	62	4.4	163
12...	1200	220	14	0	--	50	15	64	4.4	169
19...	1415	206	--	--	--	--	--	--	--	--
21...	1145	198	--	40	--	48	14	60	4.6	163
27...	1130	174	14	50	170	48	14	57	3.9	108
JULY										
02...	1330	183	15	20	--	46	14	57	4.4	151
10...	1100	212	13	20	--	40	15	52	4.5	144
15...	1100	212	14	120	--	40	13	54	4.1	149
AUG.										
02...	0930	236	13	30	--	38	13	52	3.7	140
06...	1200	233	14	20	--	39	13	53	4.2	128
16...	0900	227	15	40	--	40	14	52	4.0	143
21...	1000	224	14	20	--	39	13	53	5.2	138
30...	1315	215	13	40	110	40	13	50	4.6	139
SEP.										
04...	1230	135	15	50	--	44	14	57	4.5	158
12...	1030	138	15	60	--	49	15	55	4.9	163
19...	1000	143	16	40	--	48	14	59	6.3	158
25...	1030	135	15	40	140	42	56	54	4.9	158

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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 NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.										
05...	0	289	140	140	1.0	--	--	--	.35	.46
10...	0	290	150	150	.8	--	--	--	4.6	4.5
18...	0	259	130	140	.8	--	--	--	4.3	4.9
26...	0	285	140	140	.8	--	--	--	4.6	4.4
NOV.										
08...	0	269	130	150	.5	--	--	--	5.2	4.7
16...	0	288	140	140	.8	--	--	--	7.0	5.4
21...	0	256	150	150	.8	--	--	--	6.1	4.7
28...	0	267	130	130	.8	--	--	--	5.4	5.3
DEC.										
04...	0	267	130	140	.8	--	--	--	5.4	5.6
10...	0	153	72	83	.3	--	--	--	--	2.1
JAN.										
05...	--	--	--	--	--	2.7	.15	.49	--	2.8
07...	--	--	--	--	--	2.0	.40	1.3	--	2.4
10...	--	--	--	--	--	1.7	.13	.43	--	1.8
11...	0	109	42	49	.6	--	--	--	1.9	1.7
16...	0	212	110	120	.7	--	--	--	1.7	1.7
23...	0	274	130	140	.8	--	--	--	4.7	4.2
FEB.										
01...	0	227	110	110	.5	--	--	--	3.5	3.3
08...	0	138	53	76	.4	--	--	--	2.4	2.3
15...	0	160	73	81	.5	--	--	--	3.4	2.9
20...	0	160	73	87	.5	--	--	--	2.9	2.7
MAR.										
01...	0	244	130	130	.7	--	--	--	6.8	3.5
07...	0	284	120	140	.8	--	--	--	3.9	3.7
20...	0	280	120	140	.6	--	--	--	9.3	4.0
29...	0	189	83	97	1.1	--	--	--	4.3	3.6
APR.										
02...	0	135	53	58	.8	--	--	--	2.5	2.3
11...	0	200	90	100	.7	--	--	--	4.4	4.1
19...	0	203	95	110	.6	--	--	--	4.2	4.1
25...	0	189	96	110	1.1	--	--	--	6.2	.25
30...	0	249	130	130	.7	--	--	--	10	6.2
MAY										
08...	0	168	82	87	.6	--	--	--	4.2	3.2
16...	--	161	86	82	.6	--	--	--	3.6	3.2
22...	--	149	79	80	.5	--	--	--	4.4	2.8
31...	--	139	71	71	.4	--	--	--	2.0	2.4
JUNE										
04...	--	134	71	70	1.2	--	--	--	2.2	2.2
12...	--	139	67	74	.4	--	--	--	2.1	2.1
19...	--	--	--	--	--	2.1	.19	.62	--	2.3
21...	--	134	66	72	.2	--	--	--	1.1	1.1
27...	--	89	68	70	.4	--	--	--	2.3	1.6
JULY										
02...	--	124	58	69	.3	--	--	--	2.1	2.7
10...	0	118	58	65	.2	--	--	--	--	--
15...	0	122	54	64	.2	--	--	--	--	--
AUG.										
02...	--	115	54	62	.2	--	--	--	1.7	1.8
06...	0	105	58	63	.2	--	--	--	2.4	2.4
16...	--	117	59	63	.2	--	--	--	2.4	2.3
21...	--	113	60	64	.2	--	--	--	2.8	2.4
30...	--	114	53	60	.3	--	--	--	2.4	2.4
SEP.										
04...	--	130	67	65	.4	--	--	--	3.4	3.4
12...	0	134	70	68	.4	--	--	--	--	--
19...	--	130	71	68	.3	--	--	--	3.8	3.0
25...	0	130	64	65	.3	--	--	--	--	--

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)
OCT.									
05...	3.2	3.9	7.1	7.5	3.7	2.8	--	1.03	350
10...	1.5	.90	2.4	7.0	2.5	1.8	--	1.10	420
18...	2.5	--	--	--	3.0	3.0	742	1.00	350
26...	1.7	.90	2.6	7.2	2.6	2.3	--	1.04	360
NOV.									
08...	3.2	--	--	--	2.4	2.2	--	1.02	360
15...	.03	3.3	3.3	10	2.2	2.2	--	1.04	380
21...	.85	1.6	2.4	8.5	1.9	1.9	785	1.05	390
28...	1.9	1.0	2.9	8.3	2.5	2.4	--	1.01	390
DEC.									
04...	3.1	--	--	--	2.4	2.4	--	1.00	360
10...	1.3	--	--	--	.99	.87	--	.57	190
JAN.									
05...	1.8	3.2	5.0	--	1.9	.83	--	--	--
07...	.42	3.6	4.0	--	1.3	.96	--	--	--
10...	.50	3.0	3.5	--	1.2	.59	--	--	--
11...	1.2	2.6	3.8	5.7	1.2	.64	--	.37	140
15...	4.2	2.3	6.5	8.2	2.2	1.7	629	.81	300
23...	2.2	2.5	4.7	9.4	2.9	2.1	--	1.00	350
FEB.									
01...	2.4	1.4	3.8	7.3	1.6	1.5	--	.81	290
08...	1.3	.80	2.1	4.5	1.1	.83	--	.50	180
15...	1.5	1.3	2.8	6.2	1.3	.95	--	.59	220
20...	1.7	.70	2.4	5.3	1.5	1.1	--	.60	220
MAR.									
01...	3.6	1.5	5.1	12	1.8	1.2	--	.93	340
07...	5.6	.40	6.0	9.9	2.6	2.2	--	.99	350
20...	1.6	1.6	3.2	13	2.9	2.4	--	.99	350
29...	2.1	1.2	3.3	7.6	2.0	1.4	--	.68	240
APR.									
02...	1.3	1.4	2.7	5.2	1.6	.84	--	.45	170
11...	2.0	1.5	3.5	7.9	1.8	1.4	--	.73	260
19...	1.7	.70	2.4	6.6	1.8	1.3	566	.77	270
25...	2.3	5.0	7.3	14	1.8	1.5	--	.72	270
30...	3.5	.50	4.0	14	2.6	2.1	--	.97	350
MAY									
08...	.06	2.0	2.1	6.3	1.6	1.4	--	.63	220
16...	1.3	1.3	2.6	6.2	1.4	1.1	--	.61	210
22...	1.7	.60	2.3	6.7	1.4	1.1	--	.58	200
31...	1.2	.80	2.0	4.0	.83	.78	--	.51	180
JUNE									
04...	1.4	1.7	3.1	5.3	1.5	.90	--	.52	180
12...	.73	.97	1.7	3.8	1.7	.84	--	.52	190
19...	1.1	.80	1.9	--	1.0	.85	--	--	--
21...	.71	1.4	2.1	3.2	1.1	.07	--	.56	180
27...	.81	.99	1.8	4.1	1.1	.59	363	.46	180
JULY									
02...	.82	--	--	--	.96	.62	--	.48	170
10...	--	--	--	--	--	--	--	.44	160
15...	--	--	--	--	--	--	--	.45	150
AUG.									
02...	.44	.96	1.4	3.1	.88	.56	--	.43	150
06...	.91	1.1	2.0	4.4	.84	.55	--	.44	150
16...	.46	.94	1.4	3.8	.87	.57	325	.44	160
21...	1.4	.20	1.6	4.4	.82	.63	326	.45	150
30...	1.0	.30	1.3	3.7	.75	.46	--	.43	150
SEP.									
04...	.85	.55	1.4	4.8	1.1	.81	--	.49	170
12...	--	--	--	--	--	--	--	.51	180
19...	1.3	.50	1.8	5.6	1.4	.97	--	.51	180
25...	--	--	--	--	--	--	--	.53	340

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.									
05...	60	2.8	1260	7.5	17.5	40	13	--	--
10...	130	2.5	1340	7.9	14.5	28	10	--	--
18...	89	2.8	1210	7.4	20.0	28	13	--	--
26...	71	2.8	1250	7.8	14.0	14	10	--	--
NOV.									
08...	88	2.8	1240	7.9	16.6	35	10	--	--
16...	94	2.5	1250	7.9	13.0	23	7.2	--	--
21...	130	2.7	1280	7.8	11.7	39	12	--	--
28...	120	2.7	1220	7.8	11.2	130	7.8	--	--
DEC.									
04...	89	2.5	1220	7.7	9.9	33	7.6	--	--
10...	41	2.2	723	7.8	11.2	32	7.6	.02	.0
JAN.									
05...	--	--	771	--	7.0	--	25	--	--
07...	--	--	613	--	10.0	--	--	--	--
10...	--	--	491	--	9.5	--	16	--	--
11...	30	1.3	511	7.3	7.5	--	19	--	--
16...	85	2.3	1050	7.3	12.5	56	23	--	--
23...	79	2.6	1220	7.5	9.0	43	--	.06	.0
FEB.									
01...	62	2.3	1000	7.7	12.0	--	6.3	--	--
08...	46	1.9	679	7.4	7.5	30	7.9	--	--
15...	57	2.0	772	7.4	9.3	20	7.4	--	--
20...	57	2.0	771	7.3	7.5	25	8.5	.03	.1
MAR.									
01...	91	2.6	1150	7.3	16.5	59	18	--	--
07...	65	2.6	1220	7.6	12.5	40	11	--	--
20...	73	2.6	1240	7.3	14.5	43	11	.07	--
29...	52	2.1	857	7.6	14.7	28	8.7	--	--
APR.									
02...	33	1.7	599	7.3	14.5	34	15	--	--
11...	63	2.3	930	7.6	18.2	40	7.2	--	--
19...	67	2.2	946	7.6	14.2	17	8.8	--	--
25...	86	2.1	940	7.3	15.0	55	12	.03	.0
30...	100	2.0	1180	7.8	22.9	30	12	--	--
MAY									
08...	54	2.1	788	7.5	16.2	27	8.9	--	--
16...	47	2.1	770	7.1	18.3	15	8.1	--	--
22...	54	2.2	742	7.7	16.0	27	8.4	--	--
31...	41	1.9	649	7.6	15.5	25	7.8	.01	.0
JUNE									
04...	44	2.0	652	7.6	16.4	33	10	--	--
12...	48	2.0	663	7.7	17.4	28	6.6	--	--
19...	--	--	659	7.8	19.0	--	12	--	--
21...	44	2.0	648	7.8	17.0	48	7.2	--	--
27...	89	1.9	625	7.9	17.8	34	9.4	.01	.0
JULY									
02...	49	1.9	622	7.6	19.0	30	7.5	--	--
10...	44	1.8	569	7.6	19.0	--	--	--	--
15...	31	1.9	577	7.7	19.0	--	--	--	--
AUG.									
02...	34	1.9	551	7.6	19.3	25	8.3	--	--
06...	46	1.9	556	7.5	20.0	22	6.6	--	--
16...	40	1.8	547	7.5	16.8	21	7.1	--	--
21...	38	1.9	569	7.5	18.2	16	6.7	--	--
30...	39	1.8	545	7.6	19.2	16	5.8	.00	.0
SEP.									
04...	38	1.9	611	7.5	21.0	22	8.2	--	--
12...	50	1.8	636	7.7	20.0	--	--	--	--
19...	48	1.9	639	7.6	18.7	37	8.7	--	--
25...	210	1.3	620	7.8	19.5	--	--	--	--

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA-TERIAL (UG/KG)
DEC.										
10...	1420	.00	.0	--	.00	--	.00	--	.00	--
JAN.										
05...	1045	.00	.0	--	.00	--	.03	--	.05	--
10...	1800	.00	.0	--	.00	--	.01	--	.03	--
23...	1115	.00	.0	--	.00	--	.01	--	.00	--
FEB.										
20...	1120	.00	.0	--	.00	--	.00	--	.00	--
MAR.										
08...	1300	.00	.0	--	.00	--	.01	--	.00	--
20...	1210	.00	.0	--	.00	--	.01	--	.00	--
APR.										
25...	1130	.00	.0	--	.00	--	.00	--	.00	--
MAY										
31...	1300	.00	.0	--	.00	--	.00	--	.00	--
JUNE										
27...	1130	.00	.0	--	.00	--	.00	--	.00	--
JULY										
24...	1030	.00	.0	--	.00	--	.00	--	.00	--
AUG.										
30...	1315	.00	.0	--	.00	--	.00	--	.00	--
SEP.										
11...	1230	.00	.0	6	.00	7.8	.00	.0	.00	1.4

DATE	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
DEC.										
10...	.01	.00	--	.00	--	.00	--	.00	--	.00
JAN.										
05...	.03	.02	--	.00	--	.00	--	.00	--	.00
10...	.03	.01	--	.00	--	.00	--	.00	--	.01
23...	.02	.01	--	.00	--	.00	--	.00	--	.02
FEB.										
20...	.01	.00	--	.00	--	.00	--	.00	--	.01
MAR.										
08...	.03	.01	--	.00	--	.00	--	.00	--	.01
20...	.04	.01	--	.00	--	.00	--	.00	--	.00
APR.										
25...	.05	<.01	--	.00	--	.00	--	.00	--	.00
MAY										
31...	.02	.00	--	.00	--	.00	--	.00	--	.00
JUNE										
27...	.00	.00	--	.00	--	.00	--	.00	--	.00
JULY										
24...	.02	.00	--	.00	--	.00	--	.00	--	.00
AUG.										
30...	.00	.00	--	.00	--	.00	--	.00	--	.00
SEP.										
11...	.01	.00	.5	.00	.0	.00	.0	.00	.0	.01

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC.									
10...	--	.00	.00	.00	.0	--	.09	.04	.00
JAN.									
05...	--	.02	.00	.00	.0	--	.00	.00	.00
10...	--	.00	.00	.00	.0	--	.00	.00	.00
23...	--	.00	.00	.00	.0	--	.11	.00	.00
FEB.									
20...	--	.00	.00	.00	.0	--	.04	.00	.00
MAR.									
08...	--	.00	.00	.00	.0	--	.20	.00	.00
20...	--	.04	.00	.00	.0	--	.11	.00	.00
APR.									
25...	--	.00	.00	.00	.0	--	.05	.00	.00
MAY									
31...	--	.00	.00	.00	.0	--	.07	.04	.00
JUNE									
27...	--	.00	.00	.00	.0	--	.05	.00	.00
JULY									
24...	--	.00	.00	.00	.0	--	.12	.00	.00
AUG.									
30...	--	.00	.00	.00	.0	--	.00	.00	.00
SEP.									
11...	.0	.00	.00	.00	.0	65	.04	.00	.00

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)	TOTAL 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)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)
DEC.												
10...	1420	3	--	--	--	0	--	270	<10	--	--	--
JAN.												
05...	1045	15	8	7	--	--	--	--	10	10	0	--
07...	1000	5	3	2	--	--	--	--	10	9	1	--
10...	1400	4	0	4	--	--	--	--	<10	6	4	--
23...	1115	6	--	--	--	100	--	440	<10	--	--	--
FEB.												
08...	1100	7	--	--	--	0	--	280	<10	--	--	--
20...	1120	5	--	--	--	0	--	330	<10	--	--	--
MAR.												
20...	1210	3	--	--	--	0	--	410	10	--	--	--
APR.												
25...	1130	3	--	--	--	0	--	380	<10	--	--	--
MAY												
31...	1300	4	--	--	--	0	--	300	<10	--	--	--
JUNE												
19...	1415	4	0	4	--	--	--	--	<10	<6	2	--
27...	1130	4	--	--	--	--	<100	290	<10	--	--	--
JULY												
24...	1030	4	--	--	--	0	--	--	<10	--	--	--
AUG.												
28...	--	3	1	2	1	--	--	--	<10	<9	<1	<1
30...	1315	2	--	--	--	<100	0	270	<10	--	--	--

DATE	TOTAL CHRO-MIUM (CR) (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)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
DEC.												
10...	0	<10	--	--	--	10	--	--	--	<100	--	--
JAN.												
05...	20	50	50	0	--	30	15	15	--	100	99	1
07...	0	50	47	3	--	20	0	23	--	<100	67	33
10...	10	100	98	2	--	20	0	23	--	<100	94	6
23...	10	<50	--	--	--	10	--	--	--	<100	--	--
FEB.												
08...	0	<50	--	--	--	30	--	--	--	<100	--	--
20...	0	<50	--	--	--	30	--	--	--	<100	--	--
MAR.												
20...	0	50	--	--	--	<10	--	--	--	100	--	--
APR.												
25...	0	<50	--	--	--	30	--	--	--	--	--	7
MAY												
31...	0	<50	--	--	--	20	--	--	--	<100	--	--
JUNE												
19...	0	<50	<50	0	--	<10	<4	6	--	<100	<98	2
27...	0	--	--	--	--	<10	--	--	--	<10	--	--
JULY												
24...	<10	<50	--	--	--	<10	--	--	--	<100	--	--
AUG.												
28...	0	<50	<50	0	10	10	2	8	13	<100	<97	3
30...	0	--	--	--	--	<10	--	--	--	100	--	--

DATE	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
DEC.											
10...	--	.4	--	--	--	7	--	<10	10	--	--
JAN.											
05...	--	.1	.1	.0	--	--	--	--	160	50	--
07...	--	.1	.0	.1	--	--	--	--	60	60	--
10...	--	.0	.0	.0	--	--	--	--	70	70	--
23...	--	--	--	--	--	4	--	<10	90	--	--
FEB.											
08...	--	--	--	--	--	4	--	<10	50	--	--
20...	--	.1	--	--	--	3	--	<10	60	--	--
MAR.											
20...	--	.0	--	--	--	2	--	<10	560	--	--
APR.											
25...	--	.2	--	--	--	--	1	<10	50	--	--
MAY											
31...	--	--	--	--	--	1	--	<10	50	--	--
JUNE											
19...	--	.0	.0	.0	--	--	--	--	110	10	--
27...	--	.7	--	--	--	2	--	<10	30	--	--
JULY											
24...	--	.0	--	--	--	0	--	<10	10	--	--
AUG.											
28...	10	.2	.1	.1	.0	--	--	--	30	30	45
30...	--	.1	--	--	--	1	--	<10	440	--	--

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1320	1240	1270	---	---	---
2	---	---	---	---	---	---	1320	1080	1210	---	---	---
3	---	---	---	---	---	---	1280	1100	1230	---	---	---
4	---	---	---	---	---	---	1280	1200	1250	---	---	---
5	---	---	---	---	---	---	1130	900	963	---	---	---
6	---	---	---	---	---	---	897	855	875	---	---	---
7	---	---	---	---	---	---	900	828	858	---	---	---
8	---	---	---	---	---	---	1080	800	847	---	---	---
9	---	---	---	---	---	---	1090	752	809	491	447	466
10	---	---	---	---	---	---	762	678	743	502	456	471
11	---	---	---	---	---	---	746	646	711	509	481	501
12	---	---	---	---	---	---	726	712	719	624	524	572
13	---	---	---	---	---	---	732	718	724	766	618	695
14	---	---	---	1250	1190	1220	728	710	721	884	764	833
15	---	---	---	1270	1220	1250	1230	728	1080	985	910	952
16	---	---	---	1290	1240	1260	1260	1190	1230	1080	979	1040
17	---	---	---	1440	1290	1390	1280	1230	1250	1110	1040	1090
18	---	---	---	1520	1310	1410	1250	1200	1230	1190	1110	1140
19	---	---	---	1670	1300	1430	1250	1190	1210	1210	1150	1180
20	---	---	---	1310	1200	1280	---	---	---	---	---	---
21	---	---	---	1290	1190	1220	---	---	---	---	---	---
22	---	---	---	1300	1220	1260	---	---	---	---	---	---
23	---	---	---	1350	1020	1200	---	---	---	1240	1210	1230
24	---	---	---	1200	1050	1120	---	---	---	1240	1180	1210
25	---	---	---	1400	1210	1290	---	---	---	1230	1120	1190
26	---	---	---	1390	1230	1290	---	---	---	1220	1130	1190
27	---	---	---	1270	1210	1230	---	---	---	---	---	---
28	---	---	---	1290	1230	1260	---	---	---	---	---	---
29	---	---	---	1360	1210	1270	---	---	---	---	---	---
30	---	---	---	1360	1240	1290	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1250	850	1140	1160	835	1080	1220	1170	1200
2	---	---	---	1230	663	980	808	505	681	1200	1170	1180
3	---	---	---	904	820	853	831	709	780	1190	1150	1180
4	---	---	---	1000	913	949	863	848	856	1190	904	1050
5	---	---	---	1200	1020	1140	916	830	854	914	874	895
6	---	---	---	1260	1200	1230	965	926	951	895	778	854
7	---	---	---	1260	979	1220	955	917	940	792	751	765
8	820	663	705	821	634	738	937	907	925	792	769	777
9	827	755	769	651	557	606	965	931	948	801	772	789
10	775	748	758	619	526	558	967	933	954	790	767	779
11	775	738	755	709	603	635	932	901	920	785	749	774
12	787	755	763	844	668	732	955	914	939	1030	769	830
13	789	760	775	956	764	843	950	898	932	1130	792	1060
14	802	762	773	1060	924	975	934	880	915	772	724	746
15	805	760	781	1110	1020	1050	925	874	903	764	727	742
16	1090	754	835	1140	1050	1090	947	878	918	770	736	751
17	1080	758	873	1170	1120	1150	938	875	913	766	725	751
18	1100	715	854	1210	1160	1190	942	874	917	755	725	743
19	743	714	730	1180	1140	1170	948	912	928	1030	746	810
20	798	771	781	1240	1200	1220	964	910	938	1120	806	1070
21	798	771	781	1260	952	1220	940	895	923	774	704	731
22	788	760	771	938	814	861	934	887	911	749	715	731
23	794	765	776	898	820	844	916	885	905	755	717	737
24	794	767	773	1180	915	1090	924	893	911	747	704	729
25	776	748	760	1180	918	1150	935	895	922	745	691	726
26	755	739	745	852	793	813	933	897	918	739	636	708
27	776	740	754	840	739	806	940	906	922	688	638	663
28	810	752	776	806	759	792	1060	911	936	664	625	646
29	---	---	---	865	797	840	1190	1080	1140	660	624	648
30	---	---	---	865	829	849	1190	1140	1170	649	619	634
31	---	---	---	1080	813	891	---	---	---	651	618	632
MONTH	---	---	---	1260	526	956	1190	505	928	1220	618	817

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	655	616	640	630	580	604	570	527	548	622	511	556
2	953	613	700	627	580	611	560	526	542	625	571	605
3	1110	677	1040	627	580	608	561	527	544	625	564	593
4	660	617	646	622	573	607	576	528	556	617	560	595
5	663	629	647	622	577	605	---	---	---	618	564	593
6	669	628	653	625	574	606	566	535	554	611	562	590
7	687	651	673	622	557	598	569	530	553	618	559	594
8	687	642	669	598	558	578	573	533	555	626	572	603
9	668	619	652	589	548	570	571	533	554	619	572	599
10	659	619	642	586	543	564	574	533	555	618	570	605
11	663	632	647	592	541	568	567	525	549	629	564	611
12	989	638	726	590	541	564	570	536	556	648	547	612
13	1120	1020	1100	577	534	557	---	---	---	634	537	611
14	1150	683	1090	952	536	668	---	---	---	645	598	625
15	663	611	640	1040	543	668	---	---	---	641	585	619
16	812	623	667	590	532	562	564	526	548	628	583	608
17	1150	665	1040	572	525	548	560	522	544	631	588	612
18	670	636	657	568	523	544	900	522	641	641	591	623
19	668	623	650	565	523	547	---	---	---	664	605	646
20	659	623	643	565	518	541	---	---	---	641	605	627
21	663	611	643	556	518	540	771	568	621	645	604	628
22	663	611	642	559	525	544	601	540	561	632	585	615
23	654	598	632	575	530	553	571	538	556	622	584	607
24	643	584	620	582	532	557	571	537	555	618	582	606
25	638	587	614	571	517	545	563	532	550	625	581	603
26	641	589	616	571	517	548	558	527	542	624	584	610
27	636	573	609	545	509	527	562	522	544	634	598	621
28	636	568	607	556	518	538	558	520	540	632	596	615
29	626	563	598	559	519	537	547	513	532	642	597	622
30	623	563	600	566	523	548	551	511	534	634	589	617
31	---	---	---	575	528	552	548	508	531	---	---	---
MONTH	1150	563	700	1040	509	571	900	[illegible]	555	664	511	609

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	15.5	9.5	11.5	9.0	---	---	---	---	18.5	11.0
2	---	---	17.0	13.0	---	---	---	---	---	---	15.5	11.5
3	---	---	15.5	10.5	---	---	---	---	---	---	13.5	12.5
4	---	---	---	---	---	---	---	---	---	---	12.5	11.5
5	---	---	---	---	---	---	---	---	---	---	14.0	12.0
6	---	---	14.5	8.5	---	---	---	---	---	---	17.0	12.0
7	---	---	16.0	10.0	---	---	---	---	---	---	16.5	12.0
8	---	---	18.0	12.5	---	---	---	---	12.5	7.5	13.0	11.5
9	---	---	18.0	15.5	14.0	9.0	9.5	9.0	14.0	7.5	12.0	10.5
10	---	---	19.0	16.0	13.5	9.5	9.0	8.0	14.5	6.0	11.5	10.5
11	---	---	20.0	14.5	---	---	8.5	7.5	13.0	6.5	11.5	10.5
12	---	---	19.0	14.0	12.5	10.5	10.5	8.5	14.0	7.0	12.0	11.0
13	---	---	16.0	12.5	12.0	10.0	11.0	10.0	14.5	9.0	13.5	11.5
14	---	---	---	---	13.5	12.0	12.0	10.5	14.5	7.0	15.0	13.5
15	---	---	15.5	11.0	16.0	10.0	12.5	11.5	16.5	9.0	16.5	15.5
16	---	---	16.0	12.5	14.5	9.5	12.5	12.0	16.5	8.0	17.0	16.0
17	---	---	17.5	15.5	14.5	9.5	13.5	12.5	16.0	10.0	17.0	16.5
18	---	---	17.0	14.0	15.0	10.5	---	---	15.0	7.0	17.0	16.5
19	---	---	13.5	11.0	15.5	10.5	---	---	12.0	8.0	16.5	15.0
20	---	---	11.5	10.5	---	---	---	---	14.5	5.5	16.0	14.0
21	---	---	12.5	10.5	---	---	---	---	14.0	6.5	19.0	13.5
22	---	---	13.0	12.0	---	---	---	---	14.5	6.5	15.5	13.0
23	---	---	13.0	11.0	---	---	---	---	16.5	7.0	15.5	12.5
24	---	---	12.5	10.0	---	---	15.0	9.0	16.0	7.5	19.0	14.0
25	---	---	12.5	9.0	---	---	14.0	7.5	16.5	6.5	17.0	14.5
26	---	---	13.0	9.0	---	---	11.5	7.0	15.5	6.5	17.0	13.0
27	19.0	11.0	12.5	8.5	---	---	13.5	5.5	16.0	7.5	16.5	14.5
28	18.0	10.5	14.0	10.5	---	---	13.5	5.0	12.5	8.0	17.0	15.0
29	17.5	9.0	13.5	10.0	---	---	---	---	---	---	18.0	14.5
30	17.5	12.5	14.0	9.0	---	---	---	---	---	---	17.0	14.5
31	17.0	10.0	---	---	---	---	---	---	---	---	19.0	12.0
MONTH	---	---	20.0	[illegible]	---	---	---	---	---	---	19.0	10.5

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	12.0	24.0	15.5	19.5	14.5	22.0	16.5	24.0	19.0	24.0	18.0
2	18.0	13.5	22.5	15.5	19.5	14.0	22.0	16.0	24.0	19.5	23.0	18.5
3	18.5	13.0	22.0	15.5	20.5	15.5	23.5	15.5	24.5	20.0	24.0	19.5
4	19.5	11.0	17.5	15.0	20.5	15.5	24.0	16.0	25.0	20.0	24.0	19.5
5	20.0	10.5	19.5	14.0	21.5	15.5	23.5	16.0	---	---	24.5	20.0
6	20.0	11.0	20.5	15.0	21.0	16.0	23.0	16.0	24.5	20.0	24.5	20.0
7	21.0	12.0	20.0	15.0	18.5	16.0	22.5	16.5	24.0	19.0	24.0	20.0
8	20.5	13.5	19.5	16.0	22.5	15.0	22.5	16.0	23.0	19.5	24.0	19.5
9	18.0	14.5	18.5	16.0	22.5	15.0	22.5	15.5	22.0	18.5	24.0	19.5
10	18.5	10.5	20.0	15.5	22.0	15.5	22.0	17.0	22.5	18.0	24.0	19.5
11	19.5	11.0	21.0	15.0	22.0	16.0	22.5	16.0	23.0	17.5	23.5	19.5
12	20.5	12.5	19.0	16.5	22.0	16.5	23.5	15.5	22.5	18.5	23.0	19.5
13	21.5	12.5	20.0	17.0	25.5	17.5	23.0	16.0	---	---	22.5	19.0
14	22.0	13.0	18.5	15.0	26.0	18.0	22.0	17.5	---	---	21.5	17.0
15	21.5	12.5	17.0	15.0	25.5	17.0	23.5	18.5	---	---	22.0	17.0
16	21.0	13.0	20.5	14.5	22.5	16.5	23.5	17.0	23.0	17.0	22.0	16.0
17	20.5	13.0	20.0	14.0	23.0	15.0	23.5	16.0	23.5	16.0	21.5	16.5
18	20.0	14.5	18.0	13.5	21.5	14.0	23.5	16.0	22.5	17.0	22.0	18.0
19	19.0	12.0	18.5	12.0	22.0	14.0	23.0	17.0	---	---	22.0	18.5
20	18.5	11.0	22.0	11.5	22.5	14.5	24.0	19.0	---	---	22.5	18.0
21	21.0	12.0	21.0	12.0	22.5	15.0	22.5	16.5	23.0	18.0	23.0	18.0
22	20.0	13.5	21.0	13.0	23.5	15.5	23.0	17.5	23.5	17.5	24.0	18.5
23	19.5	14.0	19.5	14.0	24.0	16.0	24.5	18.0	24.0	18.0	23.5	19.0
24	19.0	13.5	21.5	14.0	24.5	17.0	25.0	18.5	24.0	18.5	22.5	19.0
25	19.5	12.0	25.0	15.5	24.0	17.5	25.0	19.0	24.0	18.5	22.5	19.5
26	19.5	11.0	25.0	17.0	24.5	16.5	24.0	18.5	24.0	18.0	21.5	19.0
27	20.5	11.5	21.5	15.0	24.5	16.0	24.0	17.5	23.0	17.0	20.5	18.0
28	20.5	12.5	21.0	15.5	24.5	16.0	24.0	18.5	23.5	17.0	21.5	16.0
29	23.5	12.5	20.0	15.5	23.5	15.5	23.0	18.0	23.0	16.5	21.5	16.5
30	24.0	13.5	18.5	15.0	22.5	16.5	24.5	19.0	23.0	17.0	22.5	18.0
31	---	---	18.5	14.5	---	---	24.5	19.0	23.5	17.0	---	---
MONTH	24.0	10.5	25.0	11.5	26.0	14.0	25.0	15.5	25.0	16.0	24.5	16.0

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	80	280	60	53	140	20	83	55	12
2	128	340	118	58	135	21	96	60	16
3	163	360	158	55	130	19	84	55	12
4	184	380	189	57	125	19	84	55	12
5	179	400	193	61	120	20	126	60	20
6	155	350	146	60	120	19	146	70	28
7	68	320	59	59	115	18	206	80	44
8	54	290	42	64	115	20	215	90	52
9	49	270	36	63	110	19	194	100	52
10	50	240	32	61	105	17	241	110	72
11	54	220	32	65	100	18	258	115	80
12	53	200	29	65	95	17	253	115	79
13	48	190	25	64	90	16	253	110	75
14	45	180	22	56	85	13	255	110	76
15	54	170	25	74	80	16	156	135	57
16	52	160	22	68	75	14	93	140	35
17	52	150	21	78	80	17	84	150	34
18	53	140	20	114	100	31	84	160	36
19	50	130	18	110	95	28	82	140	31
20	56	140	21	73	90	18	84	125	28
21	57	150	23	114	95	29	90	120	29
22	64	160	28	169	110	50	259	320	224
23	66	170	30	165	105	47	277	310	232
24	67	180	33	168	110	50	263	290	206
25	65	170	30	150	100	41	266	270	194
26	63	165	28	88	80	19	259	250	175
27	61	160	26	76	70	14	260	230	161
28	59	155	25	77	60	12	269	220	160
29	59	150	24	105	70	20	268	210	152
30	54	145	21	86	60	14	263	200	142
31	51	140	19	---	---	---	262	190	134
TOTAL	2293	---	1555	2556	---	676	5813	---	2660

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	297	200	160	232	80	50	174	75	35
2	281	190	144	122	120	40	203	80	44
3	275	180	134	108	150	44	231	75	47
4	395	220	235	106	190	54	227	70	43
5	755	270	550	117	180	57	181	60	29
6	730	260	512	272	170	125	148	55	22
7	760	270	554	308	160	133	141	50	19
8	1440	1300	5050	292	150	118	162	60	26
9	794	1100	2360	245	130	86	180	70	34
10	353	770	734	244	120	79	180	80	39
11	352	750	713	244	110	72	194	100	52
12	346	730	682	245	100	66	206	75	42
13	341	700	644	244	95	63	204	50	28
14	340	680	624	248	90	60	202	25	14
15	335	650	588	248	95	64	197	25	13
16	333	620	557	220	100	59	195	25	13
17	328	600	531	204	105	58	191	30	15
18	308	580	482	196	110	58	187	30	15
19	288	560	435	245	115	76	180	30	15
20	261	540	381	243	120	79	166	50	22
21	227	520	319	238	115	74	123	70	23
22	150	460	186	241	110	72	153	80	33
23	104	380	107	243	105	69	162	80	35
24	103	330	92	237	100	64	150	75	30
25	102	290	80	234	95	60	110	80	24
26	98	250	66	237	90	58	146	85	34
27	94	200	51	234	85	54	156	75	32
28	102	150	41	239	80	52	209	55	31
29	233	100	63	---	---	---	231	45	28
30	245	75	50	---	---	---	210	60	34
31	263	50	36	---	---	---	191	90	46
TOTAL	11033	---	17161	6286	---	1944	5590	---	917

	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	110	400	119	67	90	16	183	115	57
2	235	300	190	68	105	19	159	125	54
3	258	200	139	67	115	21	76	135	28
4	213	120	69	95	125	32	199	140	75
5	193	125	65	128	135	47	205	145	80
6	140	140	53	155	145	61	206	150	83
7	128	160	55	186	140	70	215	145	84
8	119	170	55	187	130	66	213	140	81
9	119	150	48	186	120	60	212	135	77
10	123	130	43	182	120	59	212	130	74
11	122	120	40	174	120	56	216	120	70
12	120	115	37	150	115	47	186	120	60
13	120	115	37	87	115	27	69	90	17
14	117	110	35	172	110	51	70	80	15
15	114	105	32	173	105	49	201	90	49
16	116	105	33	168	100	45	172	100	46
17	109	100	29	165	100	45	69	80	15
18	112	95	29	162	95	42	198	120	64
19	119	100	32	142	90	35	197	125	66
20	128	105	36	77	85	18	194	120	63
21	124	110	37	165	95	42	189	125	64
22	127	115	39	172	90	42	189	125	64
23	126	115	39	170	90	41	189	120	61
24	126	110	37	169	95	43	181	115	56
25	124	110	37	160	100	43	174	110	52
26	129	100	35	159	105	45	173	105	49
27	126	90	31	187	110	56	166	100	45
28	117	80	25	179	115	56	169	100	46
29	75	65	13	179	115	56	171	105	48
30	74	80	16	175	110	52	176	100	48
31	---	---	---	178	105	50	---	---	---
TOTAL	3963	---	1485	4684	---	1392	5229	---	1691

11074000 SANTA ANA RIVER BELOW PRADO DAM, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	179	95	46	230	90	56	197	110	59
2	181	95	46	233	90	57	130	115	40
3	184	95	47	232	95	60	130	120	42
4	179	100	48	232	100	63	131	125	44
5	178	100	48	229	110	68	130	115	40
6	176	100	48	229	115	71	128	105	36
7	184	105	52	229	110	68	129	100	35
8	207	110	61	230	100	62	132	90	32
9	209	115	65	232	90	56	133	85	31
10	212	120	69	228	90	55	133	80	29
11	217	125	73	224	90	54	137	75	28
12	216	125	73	223	95	57	152	65	27
13	216	120	70	227	95	58	154	65	27
14	175	250	118	227	95	58	136	70	26
15	176	300	143	226	90	55	138	70	26
16	217	200	117	225	90	55	136	70	26
17	217	150	88	224	90	54	135	70	26
18	215	120	70	175	110	52	136	70	26
19	219	115	68	177	100	48	141	75	29
20	218	115	68	224	95	57	141	80	30
21	208	120	67	205	90	50	139	80	30
22	203	120	66	215	85	49	135	75	27
23	209	120	68	221	80	48	133	75	27
24	209	110	62	223	80	48	134	70	25
25	213	100	58	220	80	48	134	70	25
26	217	100	59	216	85	50	136	75	28
27	216	100	58	216	85	50	140	75	28
28	215	95	55	213	90	52	137	75	28
29	218	90	53	213	95	55	137	70	26
30	228	85	52	214	100	58	134	70	25
31	230	85	53	214	105	61	---	---	---
TOTAL	6341	---	2069	6826	---	1733	4138	---	928
YEAR	64752.0		34211.0						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
DEC.										
28...	1435	11.5	284	224	172	--	--	--	--	--
JAN.										
07...	1045	--	723	225	439	--	--	--	--	--
31...	1115	--	273	50	37	--	--	--	--	--
FEB.										
14...	1315	--	249	89	60	--	--	--	--	--
MAR.										
19...	1010	--	180	30	15	--	--	--	--	--
22...	1000	--	153	80	33	--	--	--	--	--
APR.										
01...	0930	--	113	417	127	38	54	71	89	97
05...	0945	--	215	126	73	--	--	--	--	--
29...	1050	--	82	66	15	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC.									
28...	58	--	77	--	98	--	100	--	--
JAN.									
07...	--	64	--	85	--	87	--	98	100
31...	--	91	--	95	--	98	--	100	--
FEB.									
14...	--	92	--	96	--	99	--	100	--
MAR.									
19...	--	92	--	92	--	92	--	100	--
22...	--	100	--	--	--	--	--	--	--
APR.									
01...	--	99	--	100	--	--	--	--	--
05...	--	100	--	--	--	--	--	--	--
29...	--	100	--	--	--	--	--	--	--

11075600 SANTA ANA RIVER AT IMPERIAL HIGHWAY, NEAR ANAHEIM, CALIF.

LOCATION.--Lat 33°51'23", long 117°47'23", in Canon De Santa Ana, Orange County, near highway bridge, 500 ft (152 m) north of State Highway 91, and 0.4 mi (0.6 km) south of Orangethorpe Road.
DRAINAGE AREA.--1,544 mi² (3,999 km²), revised, excluding 768 mi² (1,989 km²) above Lake Elsinore.
PERIOD OF RECORD.--Water temperatures: October 1972 to current year.
Sediment records: October 1972 to current year.
EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 5,890 mg/l Jan. 8; minimum daily, 50 mg/l on several days.
Sediment discharge: Maximum daily, 22,400 tons (20,300 tonnes) Jan. 8; minimum daily, 6.2 tons (5.6 tonnes) Oct. 31.
Period of record:
Sediment concentrations: Maximum daily, 6,870 mg/l Feb. 11, 1973; minimum daily, 20 mg/l on several days in 1973.
Sediment discharge: Maximum daily, 22,400 tons (20,300 tonnes) Jan. 8, 1974; minimum daily, 0.01 ton (0.01 tonne) on several days in 1973.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	11.0	---	12.5	14.0	17.0	---	---	---	23.0	---
2	---	---	---	---	---	13.5	---	---	---	---	---	---
3	---	17.0	---	---	---	---	---	---	---	21.5	---	24.5
4	---	---	---	---	---	---	---	---	---	---	---	---
5	17.0	---	---	9.0	---	---	---	---	---	---	---	---
6	---	---	---	9.0	---	---	---	---	---	---	---	---
7	---	---	---	9.5	9.5	---	---	---	17.0	---	---	---
8	---	---	12.0	10.0	---	11.5	---	---	---	---	21.0	---
9	---	17.0	---	---	---	14.5	---	18.0	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	10.0	---	---	---	---	---	---	---	---
12	16.0	---	---	---	---	---	20.5	---	---	21.5	---	---
13	---	---	---	---	---	---	---	---	---	---	---	22.5
14	---	---	---	11.5	---	---	---	---	---	---	---	---
15	---	---	12.5	---	11.5	17.0	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	15.5	---	---	---	---	---	18.0	21.5	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	17.0	---	---	---	---	---	17.0	---	---	---	---	20.5
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	16.0	---	---	---	---	21.0	---	---	---
22	---	12.5	12.5	---	11.0	16.5	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	15.0	---	---	---	---	---	17.5	---	---	---	---	20.5
27	---	---	---	---	---	15.5	---	---	---	---	---	---
28	---	---	11.5	13.0	---	---	---	---	22.0	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	16.0	---	18.0	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	65	150	26	50	50	6.8	88	200	48
2	85	370	85	55	55	8.2	79	180	38
3	118	700	223	58	60	9.4	81	190	42
4	134	840	304	60	70	11	82	200	44
5	130	840	295	64	80	14	110	300	89
6	118	680	217	61	80	13	142	420	161
7	69	330	61	54	70	10	178	600	288
8	50	160	22	58	280	44	202	840	458
9	45	140	17	59	300	48	184	740	368
10	41	120	13	55	280	42	190	700	359
11	47	140	18	58	240	38	221	850	507
12	50	180	24	64	200	35	225	700	425
13	48	160	21	61	150	25	229	600	371
14	43	140	16	50	100	14	225	500	304
15	50	150	20	64	130	22	172	390	181
16	51	140	19	62	120	20	97	300	79
17	48	100	13	78	180	38	89	250	60
18	48	80	10	113	300	92	78	220	46
19	46	60	7.5	116	310	97	74	180	36
20	50	70	9.5	70	150	28	76	170	35
21	47	70	8.9	94	230	58	79	160	34
22	57	80	12	158	420	179	194	610	320
23	60	130	21	140	370	140	233	700	440
24	57	120	18	142	340	130	229	650	402
25	57	110	17	134	310	112	250	590	398
26	57	100	15	99	250	67	263	500	355
27	60	110	18	83	200	45	258	450	313
28	53	100	14	78	180	38	272	390	286
29	54	80	12	98	250	66	272	370	272
30	53	60	8.6	93	220	55	276	360	268
31	46	50	6.2	---	---	---	276	350	261
TOTAL	1937	---	1571.7	2429	---	1505.4	5424	---	7288

11075600 SANTA ANA RIVER AT IMPERIAL HIGHWAY, NEAR ANAHEIM, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	290	400	313	241	300	195	241	230	150
2	263	380	270	158	220	94	386	1790	2240
3	263	360	256	137	200	74	286	520	402
4	448	4700	6310	132	180	64	270	380	277
5	720	4700	9140	120	160	52	230	290	180
6	680	1900	3490	226	300	183	190	240	123
7	811	2050	4730	358	650	628	184	200	99
8	1290	5890	22400	340	600	551	247	1600	1110
9	819	3280	8540	286	550	425	209	450	254
10	430	1000	1160	286	500	386	205	370	205
11	400	790	853	286	450	347	209	290	164
12	382	650	670	281	400	303	225	240	146
13	370	500	500	281	350	266	217	190	111
14	330	390	347	272	300	220	229	160	99
15	305	370	305	272	280	206	233	140	88
16	295	350	279	263	270	192	225	130	79
17	300	330	267	233	240	151	205	140	77
18	295	310	247	213	200	115	190	150	77
19	295	290	231	263	290	206	181	160	78
20	254	400	274	254	280	192	169	170	78
21	175	550	260	258	270	188	144	180	70
22	153	500	207	268	300	217	150	190	77
23	140	450	170	268	280	203	164	210	93
24	137	400	148	258	270	188	161	180	78
25	137	350	129	263	280	199	144	140	54
26	140	300	113	272	270	198	150	150	61
27	140	200	76	276	250	186	158	130	55
28	134	230	83	254	240	165	190	150	77
29	180	430	209	---	---	---	229	170	105
30	221	390	233	---	---	---	229	190	117
31	241	350	228	---	---	---	213	170	98
TOTAL	11038	---	62438	7019	---	6394	6463	---	6922

	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	164	150	66	124	85	28	190	180	92
2	236	420	268	132	90	32	187	190	96
3	305	500	412	127	90	31	144	140	54
4	268	300	217	142	105	40	214	180	104
5	233	200	126	150	120	49	229	200	124
6	187	170	86	158	130	55	217	180	105
7	172	160	74	169	140	64	209	150	85
8	172	150	70	175	160	76	209	170	96
9	169	145	66	178	180	87	202	160	87
10	164	140	62	164	170	75	196	150	79
11	167	135	61	167	160	72	193	140	73
12	155	130	54	161	140	61	178	120	58
13	150	130	53	134	110	40	114	90	28
14	147	125	50	164	150	66	112	60	18
15	142	120	46	172	170	79	174	110	52
16	147	115	46	167	180	81	178	100	48
17	132	110	39	167	190	86	112	60	18
18	140	105	40	158	150	64	176	100	48
19	140	105	40	155	130	54	181	100	49
20	142	100	38	127	100	34	178	90	43
21	142	95	36	144	120	47	184	100	50
22	144	100	39	153	130	54	187	110	56
23	142	95	36	155	140	59	187	120	61
24	142	100	38	153	130	54	181	110	54
25	142	95	36	150	130	53	181	130	64
26	140	90	34	147	120	48	178	120	58
27	137	90	33	155	130	54	181	110	54
28	144	100	39	158	140	60	181	110	54
29	134	95	34	172	170	79	178	100	48
30	130	90	32	187	180	91	169	90	41
31	---	---	---	181	180	88	---	---	---
TOTAL	4929	---	2271	4846	---	1861	5400	---	1897

11075600 SANTA ANA RIVER AT IMPERIAL HIGHWAY, NEAR ANAHEIM, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	167	90	41	213	90	52	164	85	38
2	167	95	43	209	85	48	125	90	30
3	181	105	51	209	90	51	125	75	25
4	172	100	46	209	90	51	125	75	25
5	167	95	43	213	95	55	125	75	25
6	161	90	39	217	100	59	125	70	24
7	164	95	42	217	90	53	125	65	22
8	202	110	60	225	85	52	124	60	20
9	221	200	119	229	85	53	128	65	22
10	221	170	101	229	80	49	127	60	21
11	221	160	95	229	85	53	132	55	20
12	221	140	84	225	90	55	135	55	20
13	213	135	78	229	85	53	153	65	27
14	198	130	69	229	90	56	130	60	21
15	161	70	30	225	90	55	132	60	21
16	221	130	78	225	85	52	131	60	21
17	217	125	73	225	85	52	130	55	19
18	221	120	72	207	80	45	130	55	19
19	217	115	67	161	70	30	134	55	20
20	217	120	70	213	100	58	134	50	18
21	205	115	64	213	105	60	132	50	18
22	205	110	61	187	100	50	130	50	18
23	202	115	63	225	105	64	130	50	18
24	199	110	59	229	100	62	130	50	18
25	199	100	54	225	95	58	130	50	18
26	199	105	56	229	90	56	130	50	18
27	199	100	54	229	80	49	130	50	18
28	199	100	54	221	75	45	130	50	18
29	199	95	51	205	70	39	130	50	18
30	202	90	49	202	75	41	128	50	17
31	205	85	47	199	80		---	---	---
TOTAL	6143	---	1913	6702	---	1599	3934	---	637
YEAR	66264.0		96297.1						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	1937.00	1571.70	557	2130
NOVEMBER ...	2429.00	1505.40	936	2440
DECEMBER ...	5424.00	7288.00	4920	12200
JANUARY 1974	11038.00	62438.00	22700	85200
FEBRUARY ...	7019.00	6394.00	8030	14400
MARCH	6463.00	6922.00	6260	13200
APRIL	4929.00	2271.00	3790	6060
MAY	4846.00	1861.00	3390	5250
JUNE	5400.00	1897.00	4440	6340
JULY	6143.00	1913.00	5500	7410
AUGUST	6702.00	1599.00	6490	8090
SEPTEMBER ..	3934.00	637.00	2260	2900
TOTAL	66264.00	96297.10	69273	165620

11075600 SANTA ANA RIVER AT IMPERIAL HIGHWAY, NEAR ANAHEIM, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
09...	1050	17.0	54	407	59	38	50	64	78	88	--
DEC.											
22...	1215	12.5	224	702	425	18	27	33	40	46	51
JAN.											
06...	1340	9.0	720	1890	3670	22	28	33	38	45	56
07...	1220	10.0	687	1340	2490	24	29	33	39	47	--
08...	1630	10.0	948	8900	22800	11	14	17	25	35	48
14...	1100	11.5	330	387	345	--	--	--	--	--	--
28...	1410	13.0	125	217	73	43	60	73	81	83	--
MAR.											
02...	1145	13.5	263	2700	1920	41	50	62	72	81	87
08...	1055	11.5	187	1600	808	40	48	58	68	75	82
JUNE											
07...	1430	17.0	213	147	85	--	--	--	--	--	--
21...	1135	21.0	182	98	48	--	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.										
09...	91	--	94	--	96	--	99	--	100	--
DEC.										
22...	--	57	--	81	--	98	--	100	--	--
JAN.										
06...	--	70	--	87	--	98	--	100	--	--
07...	55	--	70	--	90	--	100	--	--	--
08...	--	74	--	95	--	100	--	--	--	--
14...	27	--	36	--	61	--	89	--	99	100
28...	84	--	86	--	93	--	99	--	100	--
MAR.										
02...	--	90	--	91	--	95	--	100	--	--
08...	--	92	--	98	--	99	--	100	--	--
JUNE										
07...	89	--	92	--	97	--	100	--	--	--
21...	96	--	98	--	100	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM
SEP.							
26...	1020	20.5	3	125	2	9	24

DATE	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
SEP.						
26...	42	58	72	92	98	100

11075760 SANTA ANA RIVER NEAR KATELLA AVENUE, AT ORANGE, CALIF.

LOCATION.--Lat 33°48'08", long 117°52'39", in sec.25, T.4 S., R.10 W., Orange County, 0.2 mi (0.3 km) south of Katella Avenue, and 0.6 mi (1.0 km) east of State College Boulevard near Anaheim Stadium, at Orange.

DRAINAGE AREA.--1,593 mi^2 (4,126 km^2), not including 768 mi^2 (1,989 km^2) above Lake Elsinore.

PERIOD OF RECORD.--Water temperatures: January to September 1974.
Sediment records: January to September 1974.

EXTREMES.--January to September 1974:
Sediment concentrations: Maximum daily, 8,840 mg/l Jan. 8; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 30,900 tons (28,000 tonnes) Jan. 8; minimum daily, 0 tons (0 tonnes) on many days.

REMARKS.--No flow Jan. 1-3, Jan. 15 to Feb. 14, Feb. 18 to Mar. 1, 4-6, 11-26, Mar. 28 to Apr. 1, Apr. 5 to Sept. 30. Sediment table omitted for period of no flow during July to September.

TEMPERATURE (DEG. C) OF WATER, JANUARY TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	13.5	15.0	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	9.5	---	---	---	---	---	---	---	---
6	---	---	---	9.0	---	---	---	---	---	---	---	---
7	---	---	---	9.5	---	15.5	---	---	---	---	---	---
8	---	---	---	10.0	---	10.0	---	---	---	---	---	---
9	---	---	---	11.0	---	15.0	---	---	---	---	---	---
10	---	---	---	12.0	---	---	---	---	---	---	---	---
11	---	---	---	12.0	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	17.5	---	---	---	---	---	---	---	---
15	---	---	---	---	12.0	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	17.0	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11075760 SANTA ANA RIVER NEAR KATELLA AVENUE, AT ORANGE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	0	0	0
2	0	0	0	0	0	0	253	1970	3010
3	0	0	0	0	0	0	29	260	42
4	182	2500	2490	0	0	0	0	0	0
5	137	2390	1100	0	0	0	0	0	0
6	287	3540	2980	0	0	0	0	0	0
7	880	7090	25700	0	0	0	12	115	10
8	1030	8840	30900	0	0	0	169	865	606
9	957	7580	22100	0	0	0	35	125	14
10	152	1150	687	0	0	0	2.2	10	.22
11	26	310	48	0	0	0	0	0	0
12	2.0	40	.22	0	0	0	0	0	0
13	60	990	160	0	0	0	0	0	0
14	30	690	56	0	0	0	0	0	0
15	0	0	0	14	660	25	0	0	0
16	0	0	0	14	610	23	0	0	0
17	0	0	0	9.0	100	18	0	0	0
18	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	20	150	40
28	0	0	0	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	3743.00	---	86221.22	37.00	---	66.00	520.20	---	3722.22

	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						
2	9.4	125	12						
3	1.5	50	.20						
4	.10	30	.01						
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	---	---	---						
TOTAL	11.00	---	12.21	0	0	0	0	0	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 4311.20

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 90021.65

11075760 SANTA ANA RIVER NEAR KATELLA AVENUE, AT ORANGE, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, JANUARY TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
JANUARY 1974	3743.00	86221.22	12600	98800
FEBRUARY ...	37.00	66.00	6	72
MARCH	520.20	3722.22	548	4270
APRIL	11.00	12.21	2	14
MAY	0.0	0.0	0	0
JUNE	0.0	0.0	0	0
JULY	0.0	0.0	0	0
AUGUST	0.0	0.0	0	0
SEPTEMBER ..	0.0	0.0	0	0
TOTAL	4311.20	90021.65	13156	103156

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, JANUARY TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
JAN.										
07...	1130	9.5	390	3150	3320	21	26	33	42	53
09...	1530	11.0	912	6710	16500	14	18	21	27	34
11...	1240	12.0	64	1190	206	42	51	60	70	77
14...	1235	17.5	14	197	7.9	--	--	--	--	--
MAR.										
02...	1015	13.5	163	919	404	31	40	51	64	76
08...	1345	12.0	104	559	157	41	56	58	61	62
09...	1145	15.0	48	140	18	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
JAN.										
07...	68	--	84	--	97	--	100	--	--	--
09...	48	--	70	--	88	--	99	--	100	--
11...	84	--	93	--	99	--	100	--	--	--
14...	--	95	--	97	--	99	--	100	--	--
MAR.										
02...	87	--	92	--	96	--	99	--	100	--
08...	63	--	70	--	83	--	98	--	100	--
09...	--	88	--	91	--	96	--	99	--	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, JANUARY TO SEPTEMBER 1974

DATE	TIME	NUMBER OF SAMPLING POINTS	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	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
SEP.										
26...	1100	3	.00	1	3	12	47	92	99	100

11078000 SANTA ANA RIVER AT SANTA ANA, CALIF.

LOCATION.--Lat 33°44'56", long 117°54'30", in NW¼SW¼SE¼ sec.10, T.5 S., R.10 W., Orange County, at gaging station on Fifth Street bridge in Santa Ana, and 1.8 mi (2.9 km) downstream from Santiago Creek.

DRAINAGE AREA (revised).--1,700 mi^2 (4,403 km^2), excluding 768 mi^2 (1,989 km^2) above Lake Elsinore.

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1969, October 1970 to September 1971, October 1972 to current year.
Sediment records: October 1967 to September 1971, October 1972 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 7,310 mg/l Jan. 8; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 24,500 tons (22,200 tonnes) Jan. 7; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 78,000 mg/l Feb. 25, 1969; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 2,670,000 tons (2,420,000 tonnes) Feb. 25, 1969; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--No flow Oct. 1 to Nov. 16, 19-21, Nov. 24 to Dec. 21, Dec. 23 to Jan. 3, 16, 18, 19, Jan. 21 to Feb. 14, Feb. 18 to Mar. 1, 5, 6, 12-26, Mar. 29 to Apr. 1, Apr. 4 to Sept. 30. Sediment table omitted for period of no flow during July to September.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	13.5	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	7.5	---	---	---	---	---	---	---	---
6	---	---	---	9.5	---	---	---	---	---	---	---	---
7	---	---	---	9.5	---	14.5	---	---	---	---	---	---
8	---	---	---	9.5	---	10.0	---	---	---	---	---	---
9	---	---	---	10.5	---	14.0	---	---	---	---	---	---
10	---	---	---	12.0	---	---	---	---	---	---	---	---
11	---	---	---	12.0	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	19.0	---	---	---	---	---	---	---	---
15	---	---	---	---	21.5	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	19.0	---	---	---	---	---	---	---	---	---	---
18	---	19.5	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	14.0	---	---	---	---	---
27	---	---	---	---	---	19.0	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11078000 SANTA ANA RIVER AT SANTA ANA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	0	0	0
2				0	0	0	0	0	0
3				0	0	0	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	0	0	0
16				0	0	0	0	0	0
17				2.2	130	2.3	0	0	0
18				24	580	122	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				9.1	170	72	2.9	220	5.4
23				28	740	191	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
TOTAL	0	--	0	63.3	--	387.3	2.9	--	5.4

	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	0	0	0
2	0	0	0	0	0	0	229	1300	1290
3	0	0	0	0	0	0	116	960	360
4	231	2370	3220	0	0	0	3.0	120	1.2
5	128	2080	884	0	0	0	0	0	0
6	383	3850	4860	0	0	0	0	0	0
7	1120	5880	24500	0	0	0	26	420	110
8	880	7310	18100	0	0	0	290	1310	1540
9	921	6540	16900	0	0	0	42	200	23
10	292	1950	2210	0	0	0	10	100	3.0
11	36	310	49	0	0	0	.11	80	.02
12	5.6	110	1.7	0	0	0	0	0	0
13	55	570	85	0	0	0	0	0	0
14	28	360	27	0	0	0	0	0	0
15	.31	80	.07	2.6	110	.80	0	0	0
16	0	0	0	5.3	150	2.2	0	0	0
17	2.4	110	.70	6.0	160	2.6	0	0	0
18	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0
20	1.2	80	.25	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	40	640	260
28	0	0	0	0	0	0	.37	70	.07
29	0	0	0	--	--	--	0	0	0
30	0	0	0	--	--	--	0	0	0
31	0	0	0	--	--	--	0	0	0
TOTAL	4083.51	--	70837.72	13.9	--	5.60	756.48	--	3587.29

11078000 SANTA ANA RIVER AT SANTA ANA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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						
2	4.2	80	1.5						
3	.31	50	.04						
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	--	--	--						
TOTAL	4.51	--	1.54	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 4924.60
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 74824.85

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	0.0	0.0	0	0
NOVEMBER ...	63.30	387.30	59	446
DECEMBER ...	2.90	5.40	1	6
JANUARY 1974	4083.51	70837.72	22500	93300
FEBRUARY ...	13.90	5.60	4	10
MARCH	756.48	3587.29	2540	6130
APRIL	4.51	1.54	1	3
MAY	0.0	0.0	0	0
JUNE	0.0	0.0	0	0
JULY	0.0	0.0	0	0
AUGUST	0.0	0.0	0	0
SEPTEMBER ..	0.0	0.0	0	0
TOTAL	4924.60	74824.85	25105	99895

11078000 SANTA ANA RIVER AT SANTA ANA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
17...	0925	19.0	1.5	397	1.6	73	89	94	96	97
18...	1220	19.5	55	1260	187	38	52	61	72	79
JAN.										
04...	1520	--	417	3930	4420	17	22	28	35	44
07...	1600	10.0	1500	6890	27900	10	12	16	20	27
10...	1545	12.0	285	1050	808	47	53	62	71	77
11...	1350	12.0	18	237	12	82	92	92	95	97
14...	1415	19.0	22	227	13	--	--	--	--	--
MAR.										
02...	0920	13.5	305	1650	1360	13	16	21	27	34
08...	1320	11.5	313	973	822	10	16	17	20	24
27...	1135	19.0	31	603	50	57	72	85	95	96

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.									
17...	--	98	--	98	--	98	--	100	--
18...	88	--	95	--	99	--	100	--	--
JAN.									
04...	56	--	74	--	96	--	100	--	--
07...	41	--	62	--	90	--	99	--	100
10...	85	--	95	--	100	--	--	--	--
11...	--	98	--	99	--	99	--	100	--
14...	--	94	--	96	--	98	--	100	--
MAR.									
02...	44	--	66	--	91	--	98	--	100
08...	29	--	52	--	83	--	99	--	100
27...	--	97	--	98	--	100	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	NUMBER OF SAMPLING POINTS	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	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
SEP.											
26...	1225	3	.00	1	3	15	50	84	96	99	100

11078100 SANTA ANA RIVER AT ADAMS AVENUE, NEAR COSTA MESA, CALIF.

LOCATION.--Lat 33°40'19", long 117°56'42", on line between secs.5 and 8, T.6 S., R.10 W., Orange County, 0.5 mi (0.8 km) east of Brookhurst Street, and 1.3 mi (2.1 km) northwest of Fairview State Hospital near Costa Mesa.

DRAINAGE AREA.--1,700 mi^2 (4,403 km^2), not including 768 mi^2 (1,989 km^2) above Lake Elsinore.

PERIOD OF RECORD.--Water temperatures: October 1973 to September 1974.
Sediment records: October 1973 to September 1974.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 10,200 mg/l Jan. 9; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 27,800 tons (25,200 tonnes) Jan. 9; minimum daily, 0 tons (0 tonnes) on many days.

REMARKS.--Records of discharge are not published in Part 1 of this report. No flow Oct. 1 to Nov. 17, 20-22, Nov. 30 to Jan. 3, Jan. 16 to Feb. 14, Feb. 18 to Mar. 1, 5-6, 13-26, Mar. 29 to Apr. 1, Apr. 3 to Sept. 30. Sediment table omitted for period of no flow during July to September.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	14.0	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	9.5	---	---	---	---	---	---	---	---
5	---	---	---	7.5	---	---	---	---	---	---	---	---
6	---	---	---	10.0	---	---	---	---	---	---	---	---
7	---	---	---	10.0	---	---	---	---	---	---	---	---
8	---	---	---	10.0	---	11.0	---	---	---	---	---	---
9	---	---	---	9.0	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	9.0	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	19.5	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	14.0	---	---	---	---	---	---	---	---	---	---
19	---	13.0	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	20.5	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11078100 SANTA ANA RIVER AT ADAMS AVENUE, NEAR COSTA MESA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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				39	2170	680			
19				.80	220	.48			
20				0	0	0			
21				0	0	0			
22				0	0	0			
23				34	2390	840			
24				9.0	860	21			
25				3.6	470	4.6			
26				2.2	340	2.0			
27				1.5	270	1.1			
28				1.0	220	.60			
29				.50	160	.21			
30				0	0	0			
31				---	---	---			
TOTAL	0	0	0	91.60	---	1549.99	0	0	0

	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	0	0	0
2	0	0	0	0	0	0	184	1550	1320
3	0	0	0	0	0	0	137	1350	603
4	255	3950	7160	0	0	0	7.5	140	2.8
5	145	1460	642	0	0	0	0	0	0
6	348	3310	4320	0	0	0	0	0	0
7	1170	6160	24900	0	0	0	32	200	140
8	947	8160	23800	0	0	0	302	2560	3050
9	973	10200	27800	0	0	0	45	230	28
10	202	1940	1730	0	0	0	15	110	4.5
11	32	380	54	0	0	0	3.5	50	.47
12	7.0	150	2.8	0	0	0	.50	40	.06
13	55	740	110	0	0	0	0	0	0
14	33	500	44	0	0	0	0	0	0
15	.60	60	.10	1.5	70	.30	0	0	0
16	0	0	0	5.0	130	1.8	0	0	0
17	0	0	0	5.0	120	1.7	0	0	0
18	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	50	620	402
28	0	0	0	0	0	0	1.4	60	.23
29	0	0	0	---	---	---	0	0	0
30	0	0	0	---	---	---	0	0	0
31	0	0	0	---	---	---	0	0	0
TOTAL	4167.60	---	90562.90	11.50	---	3.80	777.90	---	5551.06

11078100 SANTA ANA RIVER AT ADAMS AVENUE, NEAR COSTA MESA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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						
2	4.0	110	1.2						
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	---	---	---						
TOTAL	4.00	---	1.20	0	0	0	0	0	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 5052.60
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 97668.95

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	0.0	0.0	0	0
NOVEMBER ...	91.60	1549.99	39	1590
DECEMBER ...	0.0	0.0	0	0
JANUARY 1974	4167.60	90562.90	12000	103000
FEBRUARY ...	11.50	3.80	1	5
MARCH	777.90	5551.06	1280	6830
APRIL	4.00	1.20	0	1
MAY	0.0	0.0	0	0
JUNE	0.0	0.0	0	0
JULY	0.0	0.0	0	0
AUGUST	0.0	0.0	0	0
SEPTEMBER ..	0.0	0.0	0	0
TOTAL	5052.60	97668.95	13320	111426

11078100 SANTA ANA RIVER AT ADAMS AVENUE, NEAR COSTA MESA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
18...	1120	17.0	280	11000	8320	31	44	56	76	88
18...	1425	17.0	70	3280	620	41	52	63	89	97
JAN.										
04...	1415	9.5	440	38600	45900	17	18	23	37	55
04...	1430	9.5	910	22800	56000	13	17	25	35	51
05...	0850	7.5	130	2430	853	41	53	66	78	87
07...	1630	11.0	1800	8800	42800	9	10	14	18	26
07...	1805	--	3200	9720	84000	13	14	15	22	32
MAR.										
02...	1055	14.0	230	2190	1360	17	23	30	37	48
08...	0910	11.0	390	1790	1890	12	17	20	24	31

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.									
18...	94	--	96	--	100	--	--	--	--
18...	99	--	99	--	100	--	--	--	--
JAN.									
04...	--	75	--	90	--	98	--	100	--
04...	74	--	91	--	96	--	100	--	--
05...	95	--	99	--	100	--	--	--	--
07...	44	--	78	--	97	--	99	--	100
07...	52	--	88	--	100	--	--	--	--
MAR.									
02...	64	--	86	--	99	--	100	--	--
08...	44	--	78	--	99		100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	NUMBER OF SAMPLING POINTS	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	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
SEP.									
27...	1500	3	.00	1	7	43	90	99	100

11082800 SAN GABRIEL RIVER AT AZUSA POWERHOUSE, AT AZUSA, CALIF.

LOCATION.--Lat 34°09'18", long 117°54'26', in NE¼SE¼ sec.22, T.1 N., R.10 W., Los Angeles County, at tailrace of Azusa Powerhouse, and 1 mi (2 km) north of Azusa.

PERIOD OF RECORD.--Chemical analyses: December 1907 to December 1908, October 1966 to current year.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Records of discharge furnished by Los Angeles County Flood Control District.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.								
26...	1300	77	39	14	9.8	3.5	175	0
NOV.								
28...	1130	45	44	13	11	3.2	177	0
DEC.								
21...	1200	46	46	13	11	3.4	195	0
FEB.								
01...	1230	79	41	9.0	8.4	2.6	156	0
28...	1230	80	41	12	9.0	2.7	174	0
MAR.								
29...	1215	79	41	11	7.4	2.0	166	0
APR.								
26...	1200	77	47	7.8	7.1	2.3	170	0
MAY								
24...	1215	77	43	10	6.9	2.3	173	0
JUNE								
20...	1300	77	45	22	7.1	2.3	170	0
JULY								
26...	1200	77	43	9.8	7.8	2.3	163	0
AUG.								
22...	1215	78	37	10	7.6	2.3	152	0
SEP.								
26...	1230	78	37	12	10	3.4	164	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT.									
26...	144	25	4.5	.4	.20	179	.24	155	11
NOV.									
28...	145	31	4.0	.5	.00	193	.26	164	19
DEC.									
21...	160	30	4.0	.5	.18	194	.26	169	9
FEB.									
01...	128	22	3.0	.4	.77	168	.23	140	12
28...	143	24	3.0	.4	.56	168	.23	152	9
MAR.									
29...	136	22	2.8	.4	.56	188	.26	147	11
APR.									
26...	139	20	3.2	.3	.56	185	.25	149	10
MAY									
24...	142	24	2.1	.3	.22	205	.28	151	9
JUNE									
20...	139	21	2.1	.3	.18	182	.25	153	14
JULY									
26...	134	23	5.3	.4	.00	153	.21	149	15
AUG.									
22...	125	22	3.2	.4	.00	187	.25	136	11
SEP.									
26...	135	24	3.0	.5	.07	199	.27	142	7

11082800 SAN GABRIEL RIVER AT AZUSA POWERHOUSE, AT AZUSA, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
OCT.								
26...	12	.3	290	8.1	19.5	1	8.5	110
NOV.								
28...	13	.4	300	8.1	11.0	8	10.6	70
DEC.								
21...	12	.4	330	8.3	10.0	3	11.5	50
FEB.								
01...	11	.3	280	8.0	9.0	6	11.9	0
28...	11	.3	290	8.4	10.0	2	11.8	40
MAR.								
29...	10	.3	265	8.1	12.0	--	11.2	30
APR.								
26...	9	.3	270	8.1	14.5	4	10.6	70
MAY								
24...	9	.2	275	8.0	16.0	3	10.2	70
JUNE								
20...	7	.2	280	7.8	18.0	3	9.3	40
JULY								
25...	10	.3	265	8.0	23.0	3	8.5	40
AUG.								
22...	11	.3	260	8.2	23.5	4	8.5	120
SEP.								
26...	13	.4	290	8.2	22.0	1	9.6	30

11087040 SAN GABRIEL RIVER AT WHITTIER NARROWS, CALIF.

LOCATION.--Lat 34°01'25", long 118°03'11", in sec.5, T.2 S., R.11 W., Los Angeles County, 200 ft (60 m) from end of San Gabriel Boulevard (Siphon Road), upstream from Whittier Narrows Dam, and 2.5 mi (4.0 km) northeast of Montebello.

PERIOD OF RECORD.--Chemical analyses: October 1966 to current year.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Records of discharge are given for San Gabriel River above Whittier Narrows Dam (sta 11087020).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)
NOV.							
28...	1330	178	291	99	737	1.00	354
DEC.							
21...	1000	196	284	94	713	.97	366
FEB.							
01...	1000	142	270	92	692	.94	265
28...	1015	140	273	94	707	.96	267
MAR.							
29...	0925	190	269	93	683	.93	350
APR.							
26...	0945	140	276	95	744	1.01	281
MAY							
24...	0930	130	280	94	758	1.03	266
JUNE							
20...	0945	7.3	195	130	774	1.05	15.3
JULY							
26...	0930	136	117	97	750	1.02	275
AUG.							
22...	0945	136	274	101	710	.97	261
SEP.							
26...	1000	154	286	91	722	.98	300

DATE	HARD-NESS (CA,MG) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
NOV.						
28...	326	1020	7.9	16.0	5	9.9
DEC.						
21...	326	1100	8.1	11.0	7	13.0
FEB.						
01...	326	1040	8.4	12.0	10	13.0
28...	326	1020	8.1	11.0	4	11.5
MAR.						
29...	320	1020	8.0	14.5	4	10.3
APR.						
26...	332	1000	8.0	13.0	7	11.0
MAY						
24...	339	1025	8.2	16.5	4	12.2
JUNE						
20...	328	1130	8.3	21.5	2	17.0
JULY						
26...	330	1000	8.1	23.0	10	9.9
AUG.						
22...	320	1025	8.0	20.5	5	9.2
SEP.						
26...	322	1020	7.8	20.5	3	7.7

11097490 LOS ANGELES RIVER AT FELIZ BOULEVARD, LOS ANGELES, CALIF.

LOCATION.--Lat 34°07'18", long 118°16'10", Los Angeles County, on bridge at Feliz Boulevard in Los Angeles.

PERIOD OF RECORD.--Chemical analyses: November 1973 to September 1974.

REMARKS.--Records furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)
NOV.												
05...	0545	103	19	111	11	235	0	193	204	107	6.3	1.5
DEC.												
05...	0650	75	24	111	10	217	0	178	203	108	6.2	--
JAN.												
03...	0730	74	22	99	9.9	218	0	179	172	93	7.7	6.6
FEB.												
07...	0630	70	23	92	10	244	0	200	152	83	5.9	6.8
MAR.												
01...	0630	48	12	37	7.9	105	0	86	97	43	1.6	1.8
APR.												
02...	0425	18	4.6	12	2.8	69	0	57	26	11	1.3	.34
MAY												
07...	0545	81	23	97	6.6	251	0	206	168	99	2.9	6.0
JUNE												
05...	0450	76	25	98	10	268	0	220	157	103	3.7	6.2
JULY												
09...	0532	74	29	105	9.7	258	0	212	161	104	3.7	.00
AUG.												
02...	0630	89	30	97	10	274	0	225	205	89	4.6	1.9
SEP.												
03...	0430	93	28	95	10	235	0	193	227	97	3.6	1.6

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)
NOV.											
05...	699	.95	337	140	41	2.6	1170	10.0	6.5	25	5.0
DEC.											
05...	668	.91	290	110	45	2.9	1210	7.0	8.9	32	6.0
JAN.											
03...	613	.83	279	100	43	2.6	1080	4.0	8.8	--	8.0
FEB.											
07...	578	.79	271	71	42	2.4	1080	5.0	8.2	11	4.0
MAR.											
01...	306	.42	173	87	31	1.2	555	12.0	6.6	209	39
APR.											
02...	116	.16	65	8	28	.7	204	13.0	7.3	65	25
MAY											
07...	614	.84	302	96	41	2.4	1070	16.0	6.2	61	18
JUNE											
05...	619	.84	296	76	41	2.5	1060	17.0	5.3	32	12
JULY											
09...	627	.85	308	96	42	2.6	1020	17.0	5.1	33	6.0
AUG.											
02...	--	--	348	120	37	2.3	1080	21.0	6.5	30	2.0
SEP.											
03...	681	.93	350	160	36	2.2	1080	20.0	2.4	34	5.0

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CALIF.
(National stream-quality-accounting network station)

LOCATION.--Lat 33°48'16", long 118°12'15", in Los Cerritos Grant, Los Angeles County, on the Willow Street Bridge, 2.8 mi (4.5 km) upstream from mouth in Long Beach.

DRAINAGE AREA.--831 mi^2 (2,152 km^2).

PERIOD OF RECORD.--Chemical analyses: February 1973 to current year.
Specific conductance: October 1973 to September 1974.
Water temperatures: October 1973 to September 1974.

EXTREMES.--Current year:
Specific conductance: Maximum recorded, 1,790 micromhos July 7; minimum recorded, 797 micromhos May 6.
Water temperatures: Maximum recorded, 34.0°C Aug. 6; minimum recorded, 8.0°C Feb. 7.

REMARKS.--Periods of missing temperature and conductivity record due to equipment malfunction; tables omitted for period October to January.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
23...	1015	89	12	--	--	--	--	120	26	130	9.6
DEC.											
06...	1100	28	26	390	20	140	140	100	33	140	9.1
JAN.											
22...	1030	60	--	--	--	--	--	--	--	--	--
MAR.											
07...	1030	518	4.1	--	--	--	--	17	3.4	19	3.3
APR.											
16...	1030	31	20	--	--	--	--	84	36	120	8.8
MAY											
29...	1045	29	23	--	--	--	--	88	41	140	9.3
JUNE											
25...	1100	33	23	--	--	--	--	89	32	130	7.0
JULY											
22...	1130	27	25	350	40	70	0	88	40	140	8.0
AUG.											
13...	1030	30	28	--	--	--	--	100	40	150	7.9
SEP.											
10...	0900	21	24	1200	150	160	20	85	36	150	9.1

DATE	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)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT.											
23...	271	0	222	310	120	1.4	.11	11	11	49	5.0
DEC.											
06...	232	0	190	260	150	.6	5.0	2.0	7.0	31	2.0
JAN.											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
07...	45	0	37	33	20	.4	1.5	2.2	3.7	16	.58
APR.											
16...	256	15	235	220	120	.7	--	--	--	--	--
MAY											
29...	284	0	233	270	140	.7	--	--	--	--	--
JUNE											
25...	259	6	222	240	120	.7	--	--	--	--	--
JULY											
22...	289	--	237	260	130	.6	.03	1.2	1.2	5.4	.69
AUG.											
13...	249	0	204	330	140	.6	.81	9.8	11	47	2.7
SEP.											
10...	287	4	242	250	120	.6	.03	2.0	2.0	9.0	1.2

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)	HARD-NESS (CA,MG) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)
OCT.											
23...	998	863	1.36	240	410	40	2.8	1380	6.9	21.0	60
DEC.											
06...	873	833	1.19	66.0	390	43	3.1	1391	7.5	11.0	4
JAN.											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
07...	147	122	.20	206	56	41	1.1	230	6.7	12.0	40
APR.											
16...	778	751	1.06	65.1	360	41	2.8	1220	8.8	19.0	--
MAY											
29...	862	852	1.17	67.5	390	43	3.1	1330	8.2	19.5	--
JUNE											
25...	781	775	1.06	69.6	350	44	3.0	1240	8.6	24.0	--
JULY											
22...	862	834	1.17	62.8	380	44	3.1	1330	9.0	26.5	2
AUG.											
13...	975	919	1.33	79.0	410	43	3.2	1360	8.9	23.0	20
SEP.											
10...	854	820	1.16	48.4	360	47	3.4	1330	8.6	22.0	5

DATE	TOTAL PHYTO-PLANK-TON (CELLS PER ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL 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)
OCT.											
23...	--	44000	82000	--	--	--	--	--	--	--	--
DEC.											
06...	--	3900	3500	8.5	7	6	<10	1	50	30	<10
JAN.											
22...	2000	5000	14000	--	--	--	--	--	--	--	--
MAR.											
07...	16000	--	--	--	--	--	--	--	--	--	--
APR.											
16...	4900	500	80	--	--	--	--	--	--	--	--
MAY											
29...	87000	3700	560	--	--	--	--	--	--	--	--
JUNE											
25...	--	6700	190	--	--	--	--	--	--	--	--
JULY											
22...	26000	--	--	17	8	7	<10	2	<10	0	<50
AUG.											
13...	66000	80	300	--	--	--	--	--	--	--	--
SEP.											
10...	560000	2400	2000	29	3	8	<10	<1	20	6	<50

DATE	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.											
23...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
06...	0	40	20	<100	3	.0	.0	5	5	100	40
JAN.											
22...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
07...	--	--	--	--	--	--	--	--	--	--	--
APR.											
16...	--	--	--	--	--	--	--	--	--	--	--
MAY											
29...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
25...	--	--	--	--	--	--	--	--	--	--	--
JULY											
22...	0	20	30	<100	10	.0	.0	0	2	70	20
AUG.											
13...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
10...	0	30	24	<100	6	.2	.1	1	1	140	--

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
JAN. 22...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	..Chlorococcales			
	...Scenedesmaceae			
	....*Scenedesmus*		400	20
	TOTAL PHYTOPLANKTON		2,000	
MAR. 07...	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	..Oscillatoriales			
	...Oscillatoreacea			
	....*Lyngbya*		12,800	80
	TOTAL PHYTOPLANKTON		16,000	
APR. 16...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	..Chlorococcales			
	...Occystaceae			
	....*Ankistrodesmus*		196	4
	....*Selenastrum*			0
	...Scenedesmaceae			
	....*Scenedesmus*		343	7
	..Tetrasporales			
	...Palmallaceae			
	....*Sphaerocystis*		98	2
	..Volvocales			
	...Chlamydomonadaceae			
	....*Chlamydomonas*		147	3
	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	..Centrales			
	...Coscinodiscaeae			
	....*Cyclotella*		637	13
	..Pennales			
	...Achnanthaceae			
	....*Achnanthes*		49	1
	...Cymbellaceae			
	....*Amphora*		49	1
	...Naviculaceae			
	....*Amphiprora*		196	4
	....*Navicula*		147	3
	...Nitzschiaceae			
	....*Nitzschia*		833	17
	...Fragilariaceae			
	....*Synedra*		147	3
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	..Oscillatoriales			
	...Oscillatoriaceae			
	....*Lyngbya*		2,000	41
	EUGLENOPHYTA			
	.Euglenophyceae			
	..Euglenales			
	...Euglenaceae			
	....*Euglena*		49	1
	....*Trachelomonas*		196	4
	TOTAL PHYTOPLANKTON		4,900	

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
MAY				
29...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	..Chlorococcales			
	...Scenedesmaceae			
	....*Scenedesmus*		5,200	6
	..Chlorococcales			
	...Occystaceae			
	....*Ankistrodesmus*			0
	..Ulotricales			
	...Chaetophoracea			
	....*Stigeoclonium*		870	1
	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	..Centrales			
	...Coscinodiscaceae			
	....*Cyclotella*		3,500	4
	..Pennales			
	...Achnanthaceae			
	....*Cocconeis*		870	1
	...Naviculaceae			
	....*Navicula*		3,500	4
	...Nitzschiaceae			
	....*Nitzschia*		57,000	66
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	..Oscillatoriales			
	...Nostocaceae			
	....*Anabaena*		5,200	6
	TOTAL PHYTOPLANKTON		87,000	
JUNE				
25...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	..Chlorococcales			
	...Hydrodictyaceae			
	....*Pediastrum*		3,000	25
	...Occystaceae			
	....*Oocystes*		120	1
	...Scenedesmaceae			
	....*Scenedesmus*		4,000	33
	CHYRSOPHYTA			
	.Bacillariophyceae	Diatoms		
	..Centrales			
	...Cocscinodiscaceae			
	....*Cyclotella*		1,200	10
	..Pennales			
	...Cymbellaceae			
	....*Cymbella*			0
	...Naviculaceae			
	....*Navicula*		3,600	30
	.Chrysophyceae			
	..Chrysomonadales			
	...Ochromonadaceae			
	....*Uroglenopsis*		120	1
	TOTAL PHYTOPLANKTON		12,000	
JULY				
22...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	..Chlorococcales			
	...Hydrodictyaceae			
	....*Pediastrum*		11,000	41
	...Occystaceae			
	....*Ankistrodesmus*		11,000	41
	..Zygnemateles			
	...Desmidiaceae			
	....*Cosmarium*			0
	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	..Centrales			
	...Coscinodiscaceae			
	....*Cyclotella*		1,000	4
	..Pennales			
	...Naviculaceae			
	....*Navicula*		1,300	5
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	..Chroococcales			
	...Chroococaceae			
	....*Anacystis*		1,000	4
	..Oscillatoriales			
	...Oscillatoriaceae			
	....*Lyngbya*		1,000	4
	TOTAL PHYTOPLANKTON		26,000	

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CALIF.--Continued

BIOLOGICAL ANALYSES, WATERYEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
AUG. 13...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	..Chlorococcales			
	...Hydrodictyaceae			
	....*Pediastrum*		19,000	29
	...Scenedesmaceae			
	....*Scenedesmus*		34,000	51
	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	..Pennales			
	...Achnanthaceae			
	....*Achnanthes*			0
	...Cymbellaceae			
	....*Cymbella*		700	1
	...Fragilariaceae			
	....*Synedra*		1,000	4
	...Naviculaceae			
	....*Navicula*		700	1
	...Tabellariaceae			
	....*Tabellaria*		2,000	3
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	..Chroococcales			
	...Chroococaceae			
	....*Anacystis*		5,000	7
	..Oscillatoriales			
	...Nostocaceae			
	....*Anabaena*		1,000	4
	TOTAL PHYTOPLANKTON		66,000	
SEP. 10...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	..Chlorococcales			
	...Characiaceae			
	....*Schroederia*			0
	...Hydrodiatyaceae			
	....*Pedrastrum*		39,000	7
	...Occystaceae			
	....*Ankistradesmus*		5,600	1
	...Scenedesmaceae			
	....*Scenedesmus*		450,000	80
	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	..Pennales			
	...Fragilariaceae			
	....*Synedra*		11,000	2
	....*Gomphonemataceae*			5
	...Naviculaceae			
	....*Navicula*		5,600	1
	....*Gomphonema*		50,000	9
	TOTAL PHYTOPLANKTON		560,000	

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	1340	1280	1310
2							---	---	---	1330	1230	1270
3							---	---	---	1330	1310	1320
4							---	---	---	1360	1330	1350
5							---	---	---	1370	1330	1350
6							---	---	---	1380	797	1000
7							---	---	---	1380	918	1160
8							---	---	---	1270	1100	1180
9							---	---	---	1250	1090	1180
10							---	---	---	1240	1110	1160
11							---	---	---	1200	1060	1040
12							---	---	---	1230	1050	1150
13							---	---	---	1230	1100	1150
14							---	---	---	1230	1110	1150
15							---	---	---	1230	1140	1180
16							1220	1060	1130	1230	1130	1190
17							1410	1040	1180	1460	1200	1300
18							1370	1010	1190	1490	1450	1470
19							1210	1000	1140	1570	1340	1500
20							1250	1070	1150	1410	1310	1360
21							1370	975	1140	1360	1160	1210
22							1180	1040	1110	1330	1120	1190
23							1320	1070	1180	1610	1250	1350
24							1220	1030	1130	1640	1560	1610
25							1270	1020	1200	1600	1450	1520
26							1220	1140	1170	1500	1290	1420
27							1370	1130	1230	1630	1330	1530
28							1260	1110	1200	1600	1290	1410
29							1310	1190	1250	1370	1230	1310
30							1320	1200	1260	1570	1390	1470
31							---	---	---	1670	1300	1540
MONTH							---	---	---	1670	797	1300

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1630	1400	1540	---	---	---	1360	1130	1160			
2	1640	1250	1470	1460	1160	1270	1330	1040	1210			
3	1730	1550	1640	1550	1230	1400	1390	1170	1280			
4	1690	1350	1590	1420	1280	1380	1280	1230	913			
5	1450	1250	1350	1640	1190	1340	1230	1170	1120			
6	1410	1130	1310	1650	1180	1410	1360	1030	1220			
7	---	---	---	1790	1240	1420	1440	1140	1280			
8	---	---	---	1780	1130	1480	1470	1140	1290			
9	---	---	---	1390	1230	1320	1440	1130	1230			
10	---	---	---	1530	1220	1320	1460	1220	1320			
11	---	---	---	1490	1210	1360	---	---	---			
12	---	---	---	1480	1250	1370	---	---	---			
13	---	---	---	1570	1400	1480	---	---	---			
14	---	---	---	1620	1450	1520	---	---	---			
15	---	---	---	1670	1420	1520	---	---	---			
16	---	---	---	1670	1340	1450	---	---	---			
17	---	---	---	1440	1070	1240	---	---	---			
18	---	---	---	1430	1120	1320	---	---	---			
19	---	---	---	1590	1300	1410	---	---	---			
20	---	---	---	1610	1390	1500	---	---	---			
21	---	---	---	1490	1260	1380	---	---	---			
22	---	---	---	1430	1140	1010	---	---	---			
23	---	---	---	1500	1140	1270	1430	1120	1270			
24	---	---	---	1290	1090	1170	1440	1200	1320			
25	---	---	---	1410	1090	1220	1490	1170	1340			
26	1340	1230	1260	1250	1110	1180	1460	1230	1350			
27	1390	1230	1310	1650	1140	1070	1480	1350	1430			
28	1550	1260	1420	---	---	---	---	---	---			
29	1590	1100	1390	---	---	---	---	---	---			
30	---	---	---	1490	1090	1300	---	---	---			
31	---	---	---	1440	1130	1250	---	---	---			
MONTH	---	---	---	1790	1070	1330	---	---	---			

11103010 LOS ANGELES RIVER AT WILLOW STREET BRIDGE, AT LONG BEACH, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1									---	---		
2									---	---		
3									---	---		
4									19.5	12.0		
5									18.0	11.0		
6									16.5	10.5		
7									15.0	8.0		
8									16.5	9.0		
9									16.0	9.0		
10									17.5	10.0		
11									15.5	10.5		
12									13.0	10.5		
13									---	---		
14									---	---		
15									---	---		
16									---	---		
17									---	---		
18									---	---		
19									---	---		
20									---	---		
21									---	---		
22									---	---		
23									---	---		
24									---	---		
25									---	---		
26									---	---		
27									---	---		
28									---	---		
29									---	---		
30									---	---		
31									---	---		
MONTH									---	---		

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	25.5	15.5	26.0	15.5	28.0	19.5	32.0	22.5	30.5	21.0
2	---	---	23.5	15.0	26.5	17.0	28.5	18.5	33.5	23.5	30.0	20.5
3	---	---	20.0	14.5	22.5	17.0	30.5	18.5	33.0	22.5	30.5	21.5
4	---	---	18.5	14.0	26.0	18.0	30.5	19.0	33.0	22.0	31.5	21.5
5	---	---	21.0	13.0	27.5	19.0	31.0	19.5	33.5	21.5	32.0	22.5
6	---	---	25.0	15.5	25.0	19.0	31.0	20.5	34.0	22.5	31.5	22.0
7	---	---	19.5	15.5	22.5	18.0	30.5	20.0	32.5	23.0	31.5	22.0
8	---	---	23.5	15.5	30.5	17.5	30.5	20.5	29.5	22.0	31.0	21.0
9	---	---	19.0	15.5	30.5	19.0	30.5	19.5	29.0	21.5	31.0	21.0
10	---	---	24.0	14.5	31.0	20.0	28.5	20.0	30.5	21.0	31.0	22.5
11	---	---	27.0	15.5	30.0	20.5	30.5	19.5	30.5	21.5	30.5	22.0
12	---	---	20.0	17.5	31.5	20.5	31.5	19.5	24.5	21.5	29.5	21.0
13	---	---	22.5	15.5	30.5	20.0	31.5	20.0	30.0	21.0	30.5	20.5
14	---	---	19.5	17.0	32.0	20.0	25.5	21.0	31.0	21.0	29.0	19.5
15	---	---	17.5	15.5	32.5	20.0	31.5	20.5	31.0	22.0	29.5	18.5
16	28.5	19.5	22.0	15.0	31.5	19.5	32.0	21.5	31.0	20.0	29.5	19.0
17	26.5	15.0	23.5	14.5	30.0	17.0	32.5	21.0	32.0	20.5	28.5	19.0
18	22.0	14.5	24.5	14.5	29.5	16.5	32.0	21.0	31.0	21.5	29.5	20.0
19	25.5	13.0	23.5	13.0	29.5	17.5	32.0	22.0	29.5	21.5	27.5	20.0
20	24.5	13.5	26.5	14.0	31.5	17.5	31.5	23.0	29.0	21.0	28.0	20.0
21	28.0	13.5	27.0	15.0	31.0	19.0	31.5	21.5	30.5	21.5	29.0	20.0
22	26.0	15.0	28.5	15.0	30.5	19.5	32.0	21.0	30.0	21.0	31.0	19.5
23	23.0	14.5	24.5	15.5	32.0	19.0	33.0	22.5	30.5	21.0	30.5	20.0
24	21.5	13.0	28.5	15.5	32.0	19.5	32.0	21.5	30.5	21.5	26.5	20.5
25	23.0	11.0	30.0	16.5	31.5	20.0	33.0	22.5	30.5	21.0	26.0	20.0
26	23.5	12.0	32.0	18.5	31.5	19.5	31.5	21.0	31.0	21.0	24.0	19.5
27	25.0	12.5	28.0	18.5	32.0	19.5	32.0	20.0	30.5	21.0	23.5	19.0
28	26.5	14.0	26.5	18.0	32.0	19.5	33.0	21.0	30.5	21.0	25.0	17.0
29	27.5	14.5	24.5	17.5	31.0	20.0	31.5	22.5	30.0	21.5	27.0	18.5
30	29.0	15.0	24.0	17.0	29.5	20.0	30.5	22.0	29.5	21.5	27.5	18.5
31	---	---	21.0	16.0	---	---	33.5	22.0	30.5	21.0	---	---
MONTH	---	---	32.0	13.0	32.5	15.5	33.5	18.5	34.0	20.0	32.0	17.0

11105850 ARROYO SIMI NEAR SIMI VALLEY, CALIF.

LOCATION.--Lat 34°16'41", long 118°47'43", on line between secs.7 and 8, T.2 N., R.18 W., Ventura County, at gaging station on bridge on Los Angeles Avenue, 0.5 mi (0.8 km) upstream from Brea Canyon, and 1.1 mi (1.8 km) northwest of town of Simi Valley.

DRAINAGE AREA.--70.6 mi^2 (182.9 km^2).

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1971, October 1973 to current year.
Sediment records: October 1968 to September 1971, October 1972 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 9,830 mg/l Jan. 7; minimum daily, 5 mg/l on many days.
Sediment discharge: Maximum daily, 26,500 tons (24,000 tonnes) Jan. 7; minimum daily, 0 tons (0 tonnes) on several days.
Period of record:
Sediment concentrations: Maximum daily, 29,000 mg/l Nov. 29, 1970; minimum daily, no flow for many days during most years.
Sediment discharge: Maximum daily, 169,000 tons (153,000 tonnes) Feb. 25, 1969; minimum daily, 0 tons (0 tonnes) on many days during most years.

REMARKS.--Records of discharge furnished by Ventura County Flood Control District.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20.0	---	---	---	---	---	---	23.0	---	25.0	---	---
2	---	---	---	16.0	---	17.0	---	---	---	---	---	27.0
3	---	---	---	---	---	---	16.0	---	30.0	---	---	---
4	---	---	---	12.0	18.0	---	---	24.0	---	28.0	---	---
5	---	---	---	---	---	---	18.0	---	---	---	---	27.0
6	---	---	---	---	19.0	---	---	---	30.0	---	---	---
7	---	19.5	---	12.0	---	11.0	---	---	---	22.0	---	---
8	---	25.0	---	14.0	---	11.0	---	19.0	---	---	27.0	---
9	---	---	---	---	---	---	25.0	---	---	---	---	22.0
10	---	25.0	---	---	---	---	---	18.0	---	21.0	27.0	---
11	---	---	18.0	---	20.0	---	26.0	---	27.0	---	---	---
12	---	24.0	---	---	---	---	---	---	---	---	25.0	22.0
13	25.0	---	19.0	---	---	---	---	23.0	---	---	---	---
14	---	---	---	---	21.0	17.0	---	---	26.0	---	25.0	---
15	24.0	---	---	---	---	---	26.0	---	---	---	---	---
16	---	20.0	---	---	---	18.0	---	24.0	---	20.0	---	---
17	---	---	20.0	25.0	---	---	28.0	---	26.0	---	---	25.0
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	15.0	20.0	---	---	17.0	---	---	---	---	---	25.0
20	---	16.0	---	26.0	---	---	---	23.0	28.0	20.0	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	19.0	19.0	---	---	26.0	24.0	---
23	---	---	---	---	---	---	---	23.0	---	---	---	26.0
24	---	---	16.0	---	---	---	19.0	---	29.0	---	22.0	---
25	25.0	---	---	---	---	---	---	---	---	26.0	---	26.0
26	---	---	---	19.0	---	19.0	---	---	---	---	27.0	---
27	---	---	14.0	---	---	---	---	23.0	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	19.0	---	19.0	---	24.0	---	32.0	25.0	---
30	19.0	---	---	---	---	---	---	---	27.0	---	---	---
31	---	---	---	---	---	---	---	---	---	32.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	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. 02...	1500	15.0	5.6	1760	27	54	73	88	95	99	100

11105850 ARROYO SIMI NEAR SIMI VALLEY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.05	55	.01	.05	55	.01	21	1980	261
2	.05	55	.01	.05	50	.01	.76	150	.31
3	.05	55	.01	.06	50	.01	.16	50	.02
4	.05	55	.01	.07	45	.01	.16	20	.01
5	.05	55	.01	.08	40	.01	.16	10	0
6	.05	55	.01	.09	35	.01	.16	10	0
7	.05	55	.01	.10	30	.01	.16	10	0
8	.05	55	.01	.11	30	.01	.16	10	0
9	.05	55	.01	.12	25	.01	.33	30	.03
10	.05	55	.01	.13	20	.01	.16	20	.01
11	.05	55	.01	.14	15	.01	.16	30	.01
12	.05	55	.01	.16	10	0	.16	25	.01
13	.05	55	.01	.16	10	0	.16	20	.01
14	.05	50	.01	.16	10	0	.16	20	.01
15	.05	50	.01	.16	10	0	.16	20	.01
16	.05	50	.01	3.9	670	32	.16	15	.01
17	.05	50	.01	13	2220	170	.16	15	.01
18	.05	50	.01	25	1820	375	.05	45	.01
19	.05	50	.01	.16	100	.04	.05	40	.01
20	.05	50	.01	.16	30	.01	.05	35	0
21	.05	45	.01	.16	20	.01	.81	130	3.3
22	.05	45	.01	61	1820	1430	9.6	1020	108
23	.05	45	.01	4.2	1090	32	.16	100	.04
24	.05	45	.01	.33	90	.08	.05	45	.01
25	.05	45	.01	.33	50	.04	.16	45	.02
26	.05	45	.01	.55	30	.04	.16	45	.02
27	.05	50	.01	.16	20	.01	.55	45	.07
28	.05	50	.01	.16	10	0	.33	40	.04
29	.05	55	.01	.16	10	0	.16	35	.02
30	.05	55	.01	.16	15	.01	.16	35	.02
31	.05	55	.01	--	--	--	.16	30	.01
TOTAL	1.55	--	.31	111.07	--	2039.35	36.78	--	373.02

	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	1.6	770	7.6	.14	170	.06	.23	170	.11
2	.05	50	.01	.14	160	.06	52	3910	763
3	3.0	580	23	.14	160	.06	19	2510	210
4	246	6050	5670	.16	170	.07	1.3	900	3.2
5	31	3640	393	.16	170	.07	1.3	500	1.8
6	89	4300	1460	.18	190	.09	1.0	350	.95
7	869	9830	26500	.20	200	.11	29	2020	429
8	83	3670	1370	.20	200	.11	84	4580	1460
9	4.4	600	7.1	.20	210	.11	.33	450	.40
10	1.3	250	.88	.18	220	.11	.33	390	.35
11	1.3	150	.53	.18	230	.11	.33	330	.29
12	1.3	100	.35	.18	240	.12	.33	280	.25
13	1.0	80	.22	.15	250	.10	.33	230	.20
14	1.0	70	.19	.15	250	.10	.33	180	.16
15	.76	60	.12	.15	240	.10	.33	150	.13
16	11	1240	110	.15	230	.09	.16	130	.06
17	19	2870	156	.18	240	.12	.33	100	.09
18	.76	400	.82	.18	240	.12	.16	90	.04
19	.55	150	.22	.20	250	.14	.16	80	.03
20	9.2	1430	80	.20	240	.13	.16	90	.04
21	.09	350	.09	.23	230	.14	.16	100	.04
22	.09	220	.05	.23	220	.14	.16	110	.05
23	.09	190	.05	.23	210	.13	.16	120	.05
24	.09	170	.04	.23	210	.13	.16	130	.06
25	.09	150	.04	.23	200	.12	.16	150	.06
26	.09	130	.03	.23	200	.12	.33	200	.18
27	.09	150	.04	.23	190	.12	6.3	1250	56
28	.09	160	.04	.23	180	.11	.16	200	.09
29	.09	170	.04	--	--	--	.16	145	.06
30	.09	180	.04	--	--	--	5.0	1150	37
31	.09	180	.04	--	--	--	.33	300	.27
TOTAL	1375.21	--	35780.54	5.26	--	2.99	204.19	--	2963.96

11105850 ARROYO SIMI NEAR SIMI VALLEY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	200	.18	.16	55	.02	3.8	20	.21
2	3.1	1360	16	.16	50	.02	3.8	15	.15
3	.33	150	.13	.16	45	.02	3.3	15	.13
4	.33	140	.12	.16	40	.02	3.3	15	.13
5	.33	130	.12	.16	40	.02	3.8	20	.21
6	.33	100	.09	.33	40	.04	3.3	20	.18
7	.33	80	.07	.16	40	.02	2.8	15	.11
8	.55	60	.09	.16	40	.02	1.0	15	.04
9	.33	45	.04	.76	50	.10	.16	15	.01
10	.33	40	.04	1.3	60	.21	1.7	15	.07
11	.55	60	.09	1.6	50	.22	2.8	10	.08
12	.55	55	.08	1.6	30	.13	2.4	10	.06
13	.33	50	.04	1.6	25	.11	1.3	10	.04
14	.33	55	.05	1.6	30	.13	1.3	5	.02
15	.33	55	.05	2.0	35	.19	2.8	5	.04
16	.33	80	.07	2.8	40	.30	2.8	5	.04
17	.33	75	.07	2.8	30	.23	2.8	5	.04
18	.33	75	.07	2.8	20	.15	2.4	5	.03
19	.33	70	.06	2.8	15	.11	1.3	5	.02
20	.33	70	.06	2.8	10	.08	.76	5	.01
21	.33	75	.07	2.8	10	.08	.16	5	0
22	.33	75	.07	2.8	5	.04	.16	5	0
23	.33	75	.07	2.8	5	.04	.33	5	0
24	.55	80	.12	2.8	5	.04	.33	5	0
25	.16	80	.03	2.8	5	.04	.33	5	0
26	.16	75	.03	2.8	10	.08	.76	5	.01
27	.16	70	.03	2.0	15	.08	.76	10	.02
28	.16	65	.03	2.0	20	.11	1.0	10	.03
29	.33	60	.05	3.3	25	.22	1.3	10	.04
30	.16	60	.03	3.3	20	.18	1.6	10	.04
31	--	--	--	2.8	15	.11	--	--	--
TOTAL	12.70	--	18.05	56.11	--	3.16	54.35	--	1.76

	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	1.0	10	.03	2.0	5	.03	5.6	5	.08
2	1.0	10	.03	.59	5	.01	6.3	5	.09
3	.16	10	0	.55	5	.01	5.6	5	.08
4	1.0	15	.04	.55	5	.01	5.0	5	.07
5	1.0	15	.04	1.4	10	.04	3.8	5	.05
6	1.0	20	.05	1.8	10	.05	5.0	5	.07
7	1.0	25	.07	1.8	10	.05	4.4	5	.06
8	1.0	20	.05	6.3	15	.26	4.4	5	.06
9	1.0	20	.05	4.2	15	.17	6.3	5	.09
10	1.0	20	.05	2.8	15	.11	6.3	5	.09
11	1.6	20	.09	3.3	10	.09	4.7	5	.06
12	1.3	15	.05	3.1	10	.08	.55	5	.01
13	1.3	15	.05	.33	10	.01	2.1	10	.06
14	1.6	20	.09	1.9	5	.03	7.8	35	.74
15	2.0	20	.11	4.4	10	.12	7.0	30	.57
16	2.0	15	.06	.76	10	.02	7.0	25	.47
17	2.0	15	.08	2.0	5	.03	6.3	20	.34
18	2.0	15	.08	2.4	5	.03	6.3	20	.34
19	2.0	15	.08	3.3	5	.04	3.6	20	.19
20	2.0	15	.08	2.8	5	.04	1.0	15	.04
21	2.0	15	.08	2.8	5	.04	5.6	25	.38
22	2.0	10	.05	1.6	5	.02	5.6	20	.30
23	2.0	10	.05	3.3	5	.04	5.6	15	.23
24	2.0	15	.08	5.0	5	.07	4.4	10	.12
25	2.0	15	.08	4.4	10	.12	2.8	10	.08
26	2.0	15	.08	3.8	15	.15	2.8	10	.08
27	2.4	10	.06	3.8	10	.10	6.2	10	.17
28	3.3	10	.09	5.0	10	.14	.55	15	.02
29	5.0	5	.07	5.0	10	.14	.55	15	.02
30	3.3	5	.04	5.0	10	.14	.33	15	.01
31	2.0	5	.03	2.8	5	.04	--	--	--
TOTAL	54.96	--	1.91	88.78	--	2.23	133.48	--	4.97

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 2134.44
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 41192.25

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.

LOCATION.--Lat 34°10'46", long 119°02'20", in Guadalasca Grant, Ventura County, at gaging station on county bridge, 1.0 mi (1.6 km) northeast of Camarillo State Hospital, and 1.4 mi (2.3 km) downstream from Conejo Creek.

DRAINAGE AREA.--248 mi^2 (642 km^2).

PERIOD OF RECORD.--Water temperatures: October 1970 to current year.
Sediment records: October 1968 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 13,400 mg/l Jan. 7; minimum daily, 15 mg/l on many days.
Sediment discharge: Maximum daily, 94,200 tons (85,500 tonnes) Jan. 7; minimum daily, 0.05 ton (0.05 tonne) July 26.
Period of record:
Sediment concentrations: Maximum daily, 62,900 mg/l Jan. 25, 1969; minimum daily, no flow for many days during most years.
Sediment discharge: Maximum daily, 1,700,000 tons (1,540,000 tonnes) Jan. 25, 1969; minimum daily, 0 tons (0 tonnes) on many days during most years.

REMARKS.--Records of discharge furnished by Ventura County Flood Control District.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	21.5	14.5	---	---	---	---		---	---	---	---
2	---	19.0	---	---	---	---	---		---	---	---	---
3	22.0	---	---	---	---	---	---		---	19.0	---	---
4	---	17.0	---	7.0	---	---	---		---	---	---	---
5	---	---	---	---	---	9.0	---		---	---	---	27.0
6	---	---	---	9.0	13.5	19.0	---		---	---	---	---
7	---	---	---	10.0	---	---	---		22.0	---	---	---
8	17.0	18.0	---	11.0	15.0	12.5	---		---	---	---	---
9	---	---	---	10.5	---	---	25.0		---	---	---	---
10	---	---	18.0	---	---	---	---		---	---	---	---
11	---	---	---	---	---	9.5	---		---	---	---	---
12	---	---	---	---	---	---	23.0		---	---	---	25.0
13	---	18.0	---	---	---	---	---		---	---	---	---
14	---	---	15.5	---	---	---	---		---	---	---	---
15	---	---	---	---	---	---	---		---	---	---	---
16	---	15.0	---	---	---	---	---		---	---	27.0	---
17	---	---	---	14.0	---	---	---		---	---	---	---
18	23.0	---	---	---	---	---	---		---	---	---	---
19	---	---	---	---	17.5	---	---		---	---	---	---
20	---	---	---	---	---	---	---		---	---	---	---
21	---	---	---	---	---	---	---		---	---	---	---
22	---	---	---	8.0	19.0	---	---		---	---	---	---
23	18.0	9.5	---	---	---	---	---		---	---	---	---
24	---	---	---	---	---	20.0	---		---	---	---	---
25	---	---	---	---	---	---	---		---	---	---	---
26	---	---	---	---	18.0	---	---		---	---	---	---
27	---	16.0	14.0	---	---	---	---		---	---	---	---
28	---	---	---	---	---	---	---		---	---	---	---
29	---	---	---	---	---	---	---		---	---	---	---
30	---	---	---	---	---	---	---		---	---	---	---
31	---	---	---	---	---	---	---		---	---	---	---
MONTH	---	---	---	---	---	---	---		---	---	---	---

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	5.7	20	.31	7.1	20	.38	35	210	51
2	5.7	20	.31	7.6	30	.62	22	140	10
3	5.0	20	.27	8.6	35	.81	11	80	2.4
4	5.0	20	.27	7.6	30	.62	11	60	1.8
5	6.4	25	.43	7.1	20	.38	9.5	50	1.3
6	6.4	25	.43	5.0	15	.20	7.1	40	.77
7	6.4	25	.43	7.6	20	.41	5.7	30	.46
8	7.6	25	.51	8.6	30	.70	5.7	20	.31
9	9.5	35	.90	8.6	25	.58	5.0	15	.20
10	8.6	30	.70	7.1	20	.38	5.7	20	.31
11	7.1	30	.58	7.1	20	.38	5.7	20	.31
12	6.4	25	.43	7.6	20	.41	5.7	15	.23
13	6.4	20	.35	7.6	15	.31	5.0	15	.20
14	7.1	25	.48	5.0	15	.20	5.0	15	.20
15	7.6	25	.51	4.4	15	.18	5.0	15	.20
16	8.6	30	.70	4.4	15	.18	4.4	15	.18
17	7.1	25	.48	8.6	60	1.4	5.0	15	.20
18	7.6	25	.51	79	1350	602	5.7	20	.31
19	7.1	20	.38	13	180	7.3	5.7	20	.31
20	7.1	20	.38	7.1	60	1.2	3.8	15	.15
21	7.6	20	.41	7.1	50	.96	6.4	20	.35
22	5.7	15	.23	12	170	13	34	250	50
23	6.4	15	.26	112	780	482	11	130	3.9
24	6.4	15	.26	11	150	4.5	8.6	60	1.4
25	5.0	15	.20	9.5	100	2.6	8.6	40	.93
26	5.0	15	.20	11	80	2.4	8.6	30	.70
27	6.4	20	.35	9.5	60	1.5	8.6	20	.46
28	6.4	20	.35	8.6	50	1.2	8.6	20	.46
29	6.4	15	.26	7.6	45	.92	8.6	20	.46
30	8.6	30	.70	7.6	40	.82	8.6	20	.46
31	7.6	25	.51	--	--	--	7.1	15	.29
TOTAL	209.9	--	13.09	414.6	--	1128.54	287.4	--	130.25

	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	30	.89	9.5	65	1.7	11	90	2.7
2	8.6	25	.58	9.5	60	1.5	115	1100	900
3	5.7	20	.31	7.6	60	1.2	40	290	100
4	296	3230	6040	7.6	55	1.1	11	90	2.7
5	92	1530	545	7.6	55	1.1	8.6	70	1.6
6	111	1140	746	7.6	55	1.1	8.6	50	1.2
7	1950	13400	94200	7.6	55	1.1	11	120	7.1
8	523	6830	22900	7.6	55	1.1	212	2450	1690
9	44	350	42	7.6	60	1.2	11	150	4.5
10	23	150	9.3	7.6	60	1.2	11	90	2.7
11	18	120	5.8	7.6	65	1.3	11	85	2.5
12	17	110	5.0	7.6	65	1.3	11	80	2.4
13	16	100	4.3	8.6	75	1.7	11	75	2.2
14	14	95	3.6	7.6	70	1.4	11	70	2.1
15	14	90	3.4	7.1	65	1.2	11	65	1.9
16	16	95	4.1	7.6	70	1.4	11	60	1.8
17	51	320	150	8.6	75	1.7	11	55	1.6
18	20	140	7.6	7.6	70	1.4	11	50	1.5
19	14	110	4.2	8.6	75	1.7	11	50	1.5
20	20	130	7.0	8.6	75	1.7	11	45	1.3
21	20	120	6.5	8.6	75	1.7	11	45	1.3
22	13	90	3.2	8.6	80	1.9	8.6	40	.93
23	11	80	2.4	8.6	80	1.9	8.6	40	.93
24	9.5	70	1.8	7.6	75	1.5	9.5	45	1.2
25	8.6	60	1.4	7.6	75	1.5	12	70	2.3
26	11	80	2.4	8.6	75	1.7	11	60	1.8
27	9.5	70	1.8	8.6	80	1.9	23	220	14
28	9.5	65	1.7	9.5	80	2.1	12	120	3.9
29	8.6	60	1.4	--	--	--	9.5	100	2.6
30	9.5	65	1.7	--	--	--	12	120	3.9
31	9.5	70	1.8	--	--	--	14	130	4.9
TOTAL	3384.0	--	124705.18	227.0	--	41.3	680.4	--	2769.06

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	11	120	3.6	7.1	110	2.1	3.3	30	.27
2	23	280	17	6.4	100	1.7	3.9	30	.32
3	11	150	4.5	6.4	100	1.7	3.9	30	.32
4	9.5	130	3.3	6.4	90	1.6	5.7	40	.62
5	8.6	110	2.6	7.1	95	1.8	5.7	40	.62
6	9.5	100	2.6	7.6	100	2.1	5.0	35	.47
7	7.6	90	1.8	8.6	110	2.6	6.4	40	.69
8	9.5	100	2.6	7.6	100	2.1	7.6	45	.92
9	11	160	4.8	6.4	90	1.6	5.7	40	.62
10	11	150	4.5	6.4	80	1.4	5.7	40	.62
11	8.6	140	3.3	6.4	70	1.2	5.0	40	.54
12	8.6	130	3.0	7.1	75	1.4	5.0	35	.47
13	7.6	120	2.5	6.4	70	1.2	4.4	35	.42
14	7.1	110	2.1	6.4	65	1.1	4.4	35	.42
15	7.1	110	2.1	6.4	60	1.0	5.0	40	.54
16	7.6	120	2.5	6.4	55	.95	4.4	35	.42
17	7.6	120	2.5	7.1	60	1.2	4.4	35	.42
18	8.6	130	3.0	7.6	65	1.3	3.9	30	.32
19	9.5	150	3.8	7.6	60	1.2	2.9	25	.20
20	8.6	140	3.3	7.1	55	1.1	2.1	20	.11
21	7.6	130	2.7	7.1	50	.96	2.9	25	.20
22	7.6	120	2.5	6.4	45	.78	3.3	25	.22
23	7.6	120	2.5	6.4	45	.78	3.8	30	.31
24	7.6	120	2.5	6.4	40	.69	2.9	30	.23
25	7.1	110	2.1	5.7	40	.62	3.8	30	.31
26	7.1	110	2.1	4.4	35	.42	2.4	25	.16
27	7.1	100	1.9	5.7	40	.62	2.4	25	.16
28	7.1	100	1.9	5.7	40	.62	2.4	25	.16
29	6.4	100	1.7	4.4	35	.42	2.4	25	.16
30	7.1	110	2.1	3.9	35	.37	2.9	25	.20
31	--	--	--	4.4	35	.42	--	--	--
TOTAL	264.9	--	97.4	199.0	--	37.05	123.6	--	11.44

	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	2.9	25	.20	7.1	30	.58	6.4	15	.26
2	2.9	25	.20	7.1	30	.58	6.4	15	.26
3	2.4	25	.16	5.7	25	.38	6.4	15	.26
4	2.9	25	.20	7.1	25	.48	6.4	15	.26
5	2.1	25	.14	3.8	25	.26	6.4	15	.26
6	2.4	25	.16	2.9	20	.16	3.8	15	.15
7	2.9	25	.20	2.9	20	.16	6.4	20	.35
8	3.9	30	.32	3.3	20	.18	6.4	15	.26
9	3.3	30	.27	4.4	25	.30	6.4	15	.26
10	2.4	25	.16	2.9	25	.20	7.6	20	.41
11	2.4	25	.16	5.0	20	.27	7.1	20	.38
12	3.3	30	.27	4.4	20	.24	7.1	20	.38
13	2.9	25	.20	7.1	25	.48	5.7	15	.23
14	2.4	25	.16	7.1	20	.38	5.7	15	.23
15	2.4	20	.13	5.0	15	.20	5.7	15	.23
16	3.9	30	.32	5.0	15	.20	5.7	15	.23
17	3.9	30	.32	5.0	15	.20	5.7	15	.23
18	.90	25	.06	5.0	15	.20	5.7	15	.23
19	1.4	25	.09	5.0	15	.20	5.7	15	.23
20	2.1	25	.14	6.4	20	.35	7.1	20	.38
21	2.1	20	.11	5.0	15	.20	7.1	20	.38
22	1.7	20	.09	7.1	20	.38	7.1	20	.38
23	3.3	25	.22	8.6	25	.58	7.1	20	.38
24	2.1	25	.14	8.6	20	.46	5.7	20	.31
25	.73	30	.06	6.4	20	.35	7.1	25	.48
26	.73	25	.05	6.4	15	.26	6.4	25	.43
27	2.1	25	.14	8.6	20	.46	7.1	20	.38
28	1.4	25	.09	8.6	25	.58	6.4	20	.35
29	3.8	30	.31	8.6	20	.46	6.4	20	.35
30	5.0	35	.47	7.6	20	.41	7.6	25	.51
31	5.7	30	.46	7.1	20	.38	--	--	--
TOTAL	82.36	--	6.00	184.8	--	10.52	191.8	--	9.43

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 6249.76
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 128959.26

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	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.										
23...	1100	11.0	--	44	755	90	70	82	92	97
JAN.										
07...	0900	10.0	--	1240	8160	27300	36	39	48	60
07...	1230	9.0	--	1830	8830	43600	35	45	51	63
08...	0930	11.0	--	508	6600	9050	43	54	61	76
MAR.										
08...	1000	12.5	--	328	3090	2740	47	61	75	87
APR.										
09...	1630	25.0	8.6	--	94	2.2	--	--	--	--

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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV.									
23...	97	--	99	--	100	--	--	--	--
JAN.									
07...	70	85	--	96	--	99	--	100	--
07...	78	92	--	99	--	100	--	--	--
08...	88	96	--	100	--	--	--	--	--
MAR.									
08...	95	--	99	--	99	--	100	--	--
APR.									
09...	--	--	90	--	95	--	98	--	100

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.

LOCATION.--Lat 34°23'59", long 118°42'14", in San Francisco Grant, Ventura County, at gaging station on old diversion weir, 0.8 mi (1.3 km) west of Los Angeles-Ventura County Line.

DRAINAGE AREA.--644 mi^2 (1,668 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1971 to current year (partial-record station).
Chloride: June to September 1969.
Specific conductance: June to September 1969, October 1970 to current year.
pH: June to September 1969.
Water temperatures: October 1968 to current year.
Sediment records: October 1968 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum recorded, 1,940 micromhos Nov. 18; minimum recorded, 710 micromhos Jan. 7.
Sediment concentrations: Maximum daily, 6,500 mg/l Jan. 7; minimum daily, 15 mg/l Oct. 3, 15.
Sediment discharge: Maximum daily, 39,500 tons (35,800 tonnes) Jan. 7; minimum daily, 0.21 ton (0.19 tonne) Oct. 3.
Period of record:
Specific conductance: Maximum, 3,600 micromhos Mar. 31, 1971; minimum recorded, 665 micromhos Jan. 18, 1973.
Sediment concentrations: Maximum daily, 27,400 mg/l Nov. 29, 1970; minimum daily, 10 mg/l on several days in 1972.
Sediment discharge: Maximum daily, 3,300,000 tons (2,990,000 tonnes), estimated, Feb. 25, 1969; minimum daily, 0.05 ton (0.05 tonne) Jan. 7, 1969.

REMARKS.--Selected chemical-quality analyses furnished by California Department of Water Resources.
Miscellaneous samples of chemical data published for water year 1969. Specific conductance probe or recorder malfunction Jan. 30 to Feb. 26, Mar. 1-8, 11, 12, 18, 19, Apr. 18-24, June 30 to July 4, 15-19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
NOV.									
20...	1345	17	--	--	530	78	--	--	--
JAN.									
29...	1400	46	--	--	456	78	--	--	--
APR.									
23...	1300	20	--	--	516	79	--	--	--
JULY									
23...	1245	8.2	--	--	488	78	--	--	--
AUG.									
27...	0745	11	5400	220	--	--	.00	.46	.05
SEP.									
25...	1830	11	6500	140	--	--	.00	.12	1.1

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (NO3) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
NOV.									
20...	--	--	--	1240	1.69	56.9	673	1600	8.1
JAN.									
29...	--	--	--	1080	1.47	134	582	1480	8.1
APR.									
23...	--	--	--	1210	1.65	65.3	645	1530	8.2
JULY									
23...	--	--	--	1220	1.66	27.0	635	1500	8.3
AUG.									
27...	.51	2.3	1.8	1190	1.62	35.3	--	1660	--
SEP.									
25...	1.2	5.3	1.5	1180	1.61	35.0	--	1660	8.1

DATE	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	TOTAL CYANIDE IN BOTTOM MATERIAL (UG/G)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
NOV.								
20...	16.5	10	9.3	--	--	--	--	--
JAN.								
29...	16.5	20	9.1	--	--	--	--	--
APR.								
23...	20.0	20	9.6	--	--	--	--	--
JULY								
23...	31.5	25	7.8	--	--	--	--	--
AUG.								
27...	14.0	1	--	23	13	.00	0	.0
SEP.								
25...	24.0	30	--	10	9.8	.00	--	.0

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ALDRIN (UG/L)	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)
AUG. 27...	0745	.00	.0	.0	0	.01	.0	.09	2.4	.11

DATE	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN 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)
AUG. 27...	3.7	.04	.00	.0	.00	.0	.00	.0	.00	.0

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	TOTAL TOXAPHENE (UG/L)	TOXAPHENE IN BOTTOM MATERIAL (UG/KG)
AUG. 27...	.00	.0	.00	.00	.00	.0	0	0	0

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM MATERIAL (UG/G)
AUG. 27...	0745	2	2	0	<1	0	0	<10	.0	.0	3	0
SEP. 25...	1830	3	--	<10	--	0	100	--	.0	--	3	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1690	1650	1680	1720	1630	1670	1750	1510	1660	1650	1610	1630
2	1690	1650	1680	1740	1650	1690	1690	1590	1650	1650	1610	1630
3	1730	1660	1680	1720	1660	1690	1710	1630	1670	---	---	---
4	1680	1630	1660	1700	1640	1670	1730	1640	1680	930	790	880
5	1640	1590	1620	1700	1650	1670	1730	1670	1700	932	812	892
6	1670	1630	1650	1670	1620	1650	1750	1700	1720	948	920	934
7	1670	1640	1660	1690	1640	1660	1760	1700	1730	750	710	726
8	1690	1640	1660	1700	1640	1670	1730	1630	1690	812	796	805
9	1680	1640	1660	1710	1650	1680	1680	1620	1650	923	899	906
10	1680	1640	1660	1740	1680	1710	1700	1620	1650	899	891	898
11	1680	1610	1640	1710	1670	1690	1700	1640	1660	891	891	891
12	1670	1620	1650	1780	1700	1740	1710	1650	1680	891	875	887
13	1670	1630	1650	1740	1680	1720	1710	1680	1690	875	864	869
14	1710	1640	1680	1730	1700	1710	1740	1680	1700	864	861	861
15	1690	1650	1670	1780	1730	1750	1720	1690	1700	861	858	859
16	1690	1650	1670	1790	1720	1760	1750	1680	1710	1780	1120	1660
17	1680	1640	1660	1750	1730	1740	1710	1670	1690	1890	1400	1640
18	1700	1650	1680	1940	1730	1790	1720	1640	1680	1450	1070	1260
19	1690	1650	1660	1760	1670	1720	1690	1630	1650	1510	1370	1440
20	1670	1640	1650	1710	1650	1670	1710	1630	1660	1610	1300	1490
21	1670	1660	1660	1700	1630	1660	1690	1640	1660	1600	1410	1470
22	1680	1660	1660	1720	1640	1670	1700	1630	1660	1450	1120	1340
23	1670	1640	1650	1720	1530	1620	1690	1630	1650	1350	1190	1250
24	1680	1640	1660	1690	1640	1660	1660	1600	1640	1380	1260	1300
25	1690	1640	1670	1690	1640	1660	1660	1600	1630	1370	1300	1330
26	1680	1640	1660	1690	1630	1660	1690	1620	1640	1420	1260	1370
27	1680	1630	1660	1680	1620	1650	1680	1650	1660	1510	1320	1410
28	1670	1590	1640	1690	1660	1670	1700	1650	1670	1570	1380	1460
29	1670	1560	1630	1720	1640	1670	1680	1640	1660	1620	1440	1470
30	1600	1530	1570	1710	1650	1680	1660	1620	1640	---	---	---
31	1670	1590	1620	---	---	---	1660	1610	1620	---	---	---
MONTH	1730	1530	1660	1940	1530	1690	1760	1510	1670	1890	710	1200

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1580	1460	1540	1620	1560	1590
2	---	---	---	---	---	---	1600	1380	1490	1620	1550	1580
3	---	---	---	---	---	---	1560	1410	1500	1610	1550	1580
4	---	---	---	---	---	---	1580	1320	1490	1640	1560	1600
5	---	---	---	---	---	---	1530	1360	1440	1640	1580	1610
6	---	---	---	---	---	---	1590	1340	1470	1630	1580	1610
7	---	---	---	---	---	---	1480	1350	1430	1630	1600	1610
8	---	---	---	---	---	---	1490	1340	1440	1620	1580	1600
9	---	---	---	1540	1270	1420	1580	1380	1520	1570	1410	1520
10	---	---	---	1360	1070	1200	1580	1230	1480	1450	1390	1410
11	---	---	---	---	---	---	1610	1360	1530	1440	1390	1420
12	---	---	---	---	---	---	1620	1490	1580	1400	1370	1390
13	---	---	---	960	760	810	1550	1360	1450	1350	1230	1290
14	---	---	---	1060	820	960	1620	1450	1510	1270	1230	1250
15	---	---	---	1190	940	1030	1590	1480	1540	1290	1250	1280
16	---	---	---	1160	1030	1100	1640	1520	1570	1330	1270	1300
17	---	---	---	1160	1050	1100	1570	1470	1540	1480	1290	1350
18	---	---	---	---	---	---	---	---	---	1550	1350	1450
19	---	---	---	---	---	---	---	---	---	1490	1390	1440
20	---	---	---	1460	1420	1440	---	---	---	1560	1370	1500
21	---	---	---	1500	1460	1490	---	---	---	1580	1510	1550
22	---	---	---	1540	1510	1520	---	---	---	1630	1540	1590
23	---	---	---	1570	1360	1440	---	---	---	1610	1570	1590
24	---	---	---	1450	1240	1400	---	---	---	1610	1560	1590
25	---	---	---	1580	1300	1560	1650	1580	1620	1660	1590	1610
26	---	---	---	1550	1540	1550	1600	1450	1540	1680	1600	1630
27	1460	1210	1340	1590	1540	1560	1480	1410	1430	1650	1600	1620
28	1400	1180	1310	1560	1550	1560	1490	1410	1460	1660	1620	1640
29	---	---	---	1560	1490	1530	1530	1440	1480	1700	1630	1670
30	---	---	---	1510	1430	1460	1600	1490	1560	1710	1640	1670
31	---	---	---	1470	1350	1430	---	---	---	1690	1640	1670
MONTH	---	---	---	---	---	---	---	---	---	1710	1230	1520

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1730	1630	1680	---	---	---	1610	1560	1580	1720	1640	1680
2	1770	1660	1720	---	---	---	1770	1590	1670	1720	1550	1660
3	1750	1690	1720	---	---	---	1780	1680	1740	1600	1560	1580
4	1730	1660	1690	---	---	---	1720	1640	1670	1730	1600	1640
5	1720	1650	1690	1820	1750	1790	1690	1600	1640	1640	1620	1630
6	1700	1640	1670	1720	1640	1690	1720	1630	1660	1640	1610	1630
7	1690	1640	1660	1730	1580	1660	1670	1590	1630	1660	1600	1630
8	1730	1620	1680	1720	1650	1680	1670	1580	1620	1640	1600	1620
9	1760	1660	1710	1730	1640	1680	1690	1640	1670	1620	1580	1600
10	1730	1680	1700	1790	1640	1700	1740	1680	1710	1650	1600	1620
11	1730	1670	1700	1730	1670	1710	1730	1660	1680	1650	1590	1630
12	1760	1660	1710	1750	1660	1710	1720	1660	1690	1660	1600	1630
13	1730	1650	1690	1760	1720	1730	1700	1660	1670	1670	1600	1630
14	1750	1650	1700	1800	1780	1790	1660	1620	1630	1600	1540	1580
15	1800	1650	1730	---	---	---	1690	1620	1650	1640	1550	1600
16	1810	1700	1750	---	---	---	1700	1640	1680	1640	1570	1600
17	1770	1670	1730	---	---	---	1760	1670	1710	1650	1520	1590
18	1760	1650	1720	---	---	---	1740	1670	1710	1570	1510	1550
19	1760	1650	1720	1610	1530	1560	1790	1580	1670	1580	1550	1560
20	1780	1660	1700	1620	1560	1600	1610	1550	1580	1630	1530	1570
21	1750	1670	1710	1670	1600	1630	1580	1540	1570	1630	1550	1590
22	1750	1660	1700	1680	1640	1660	1610	1540	1570	1630	1580	1610
23	1760	1690	1720	1690	1630	1660	1630	1560	1600	1620	1520	1570
24	1730	1650	1710	1670	1560	1620	1710	1620	1670	1640	1580	1610
25	1800	1660	1720	1660	1460	1570	1720	1680	1700	1650	1590	1620
26	1750	1700	1730	1550	1460	1490	1720	1550	1650	1690	1590	1640
27	1760	1650	1710	1580	1470	1520	1680	1620	1650	1720	1650	1680
28	1810	1630	1720	1590	1510	1550	1670	1600	1630	1730	1640	1690
29	1790	1730	1770	1570	1510	1540	1670	1620	1640	1690	1610	1660
30	---	---	---	1590	1530	1560	1660	1610	1640	1690	1620	1660
31	---	---	---	1590	1530	1560	1720	1610	1670	---	---	---
MONTH	1810	1620	1710	---	---	---	1790	1540	1650	1730	1510	1620

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.5	---	15.5	---	---	---	---	---	---	30.0	32.0	---
2	---	---	---	15.0	---	12.0	20.0	---	---	---	---	26.0
3	23.0	---	8.5	9.0	---	---	---	---	26.0	---	---	---
4	---	---	13.0	15.0	17.5	8.0	---	---	20.5	---	---	24.5
5	---	18.5	---	9.0	---	---	---	---	---	---	24.5	20.5
6	---	18.0	---	5.0	---	---	22.5	25.0	19.5	---	---	---
7	---	---	9.0	8.0	16.0	14.0	---	21.0	---	---	26.0	---
8	16.5	---	---	7.5	---	8.0	---	---	---	29.0	29.0	---
9	---	14.0	---	12.5	---	18.0	21.0	16.0	---	27.5	---	24.5
10	---	---	9.0	10.0	---	15.5	---	---	29.0	---	---	---
11	---	---	---	11.0	16.0	11.0	---	---	---	21.0	---	---
12	---	18.5	---	11.0	---	16.0	25.0	---	---	---	28.0	19.5
13	---	---	---	---	---	22.0	---	25.5	---	---	---	---
14	---	---	12.0	9.0	10.0	---	---	---	24.0	---	---	---
15	23.5	14.0	---	---	14.0	---	---	---	---	22.5	---	---
16	---	---	---	13.0	---	---	25.5	22.0	---	---	28.0	---
17	---	14.5	16.5	15.0	---	---	---	---	29.0	---	---	28.0
18	---	13.5	14.5	---	---	---	---	---	---	32.0	---	---
19	---	13.0	---	---	15.0	---	14.5	---	---	---	29.0	---
20	---	---	8.5	---	---	20.0	---	25.0	30.0	---	---	18.0
21	---	---	---	10.5	---	---	---	---	---	---	24.5	---
22	20.5	---	---	9.5	8.0	---	---	---	---	30.0	19.0	---
23	---	8.0	---	---	---	---	20.5	15.5	---	27.5	---	21.0
24	---	---	---	8.0	---	---	---	---	32.0	---	---	---
25	---	---	13.5	---	---	17.0	21.5	---	28.0	32.0	---	---
26	---	8.5	---	---	8.5	---	---	---	---	---	22.0	19.0
27	---	---	13.0	---	---	---	---	29.0	32.0	---	---	---
28	---	---	---	16.5	15.0	---	---	---	---	---	---	---
29	---	17.0	---	15.5	---	14.0	---	---	---	31.0	16.5	---
30	15.0	---	---	---	---	---	29.5	22.0	---	---	---	18.0
31	---	---	15.5	17.5	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	5.3	25	.36	12	35	1.1	25	200	14
2	5.3	20	.29	12	30	.97	21	100	5.7
3	5.3	15	.21	12	25	.81	21	50	2.8
4	5.3	20	.29	12	20	.65	21	80	4.5
5	5.3	25	.36	14	50	1.9	20	110	5.9
6	5.3	25	.36	14	30	1.1	20	140	7.6
7	6.0	50	.81	13	20	.70	20	160	8.6
8	6.2	65	1.1	14	50	1.9	20	170	9.2
9	6.0	50	.81	13	40	1.4	19	170	8.7
10	5.9	40	.64	12	40	1.3	20	180	9.7
11	5.8	35	.55	12	50	1.6	21	190	11
12	5.8	30	.47	12	60	1.9	21	180	10
13	5.8	25	.39	12	40	1.3	21	170	9.6
14	5.7	20	.31	12	20	.65	20	165	8.9
15	5.6	15	.23	13	25	.88	20	110	5.9
16	5.6	20	.30	14	100	3.8	19	70	3.6
17	5.5	25	.37	15	130	5.3	18	40	1.9
18	5.5	30	.45	20	110	5.9	17	50	2.3
19	5.4	35	.51	17	95	4.4	16	60	2.6
20	5.4	40	.58	17	100	4.6	17	80	3.7
21	5.4	50	.73	17	95	4.4	19	110	5.6
22	5.4	55	.80	17	90	4.1	20	150	8.1
23	14	100	3.8	21	400	23	16	160	6.9
24	13	90	3.2	14	300	11	17	180	8.3
25	12	80	2.6	15	250	10	18	200	9.7
26	11	70	2.1	16	210	9.1	20	170	9.2
27	10	60	1.6	18	190	9.2	20	150	8.1
28	9.6	50	1.3	18	170	8.3	20	140	7.6
29	9.3	45	1.1	20	150	8.1	21	150	8.5
30	12	40	1.3	19	170	8.7	22	160	9.5
31	12	40	1.3	---	---	---	22	150	8.9
MONTH	225.7	---	29.22	447	---	138.06	612	---	226.6

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	100	6.5	41	300	33	38	350	36
2	20	80	4.3	45	400	49	47	1400	178
3	20	100	5.4	44	370	44	41	400	44
4	76	1390	533	47	350	44	40	320	35
5	96	1200	311	48	320	41	42	350	40
6	164	2480	1480	49	300	40	48	400	52
7	2080	6500	39500	48	280	36	50	420	57
8	800	4300	9290	49	240	32	389	3980	6370
9	303	1600	1310	50	200	27	95	800	205
10	173	850	397	47	180	23	88	880	209
11	130	700	246	49	160	21	76	970	199
12	100	600	162	52	190	27	70	890	168
13	90	500	122	55	230	34	74	460	92
14	78	400	84	53	220	31	66	350	62
15	68	350	64	52	220	31	64	310	54
16	70	400	76	53	230	33	63	280	48
17	63	500	85	54	250	36	59	260	41
18	106	1300	372	48	200	26	61	240	40
19	44	800	95	45	170	21	57	220	34
20	48	600	78	46	210	26	61	200	33
21	49	400	53	43	280	33	55	190	28
22	48	410	53	42	360	41	48	210	27
23	47	370	47	39	320	34	42	230	26
24	47	350	44	38	280	29	40	260	28
25	47	230	29	39	250	26	39	310	33
26	46	150	19	39	230	24	38	300	31
27	46	100	12	38	260	27	36	290	28
28	46	60	7.5	36	300	29	35	285	27
29	46	480	60	---	---	---	33	280	25
30	41	400	44	---	---	---	33	300	27
31	41	320	35	---	---	---	34	320	29
MONTH	5057	---	54624.7	1289	---	898	1962	---	8306

	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	35	340	32	17	300	14	9.6	70	1.8
2	36	360	35	17	250	11	11	80	2.4
3	31	370	31	16	200	8.6	11	85	2.5
4	28	380	29	16	150	6.5	11	110	3.3
5	27	390	28	17	100	4.6	12	140	4.5
6	27	400	29	17	140	6.4	13	180	6.3
7	32	450	39	17	90	4.1	12	175	5.7
8	28	300	23	16	150	6.5	10	170	4.6
9	27	150	11	16	230	9.9	8.3	175	3.9
10	28	170	13	17	250	11	7.9	175	3.7
11	28	180	14	16	220	9.5	7.9	170	3.6
12	27	200	15	15	150	6.1	7.9	170	3.6
13	26	195	14	18	200	9.7	8.3	175	3.9
14	25	190	13	17	180	8.3	8.3	175	3.9
15	25	185	12	16	160	6.9	7.4	160	3.2
16	25	190	13	17	220	10	7.0	150	2.8
17	25	250	17	17	200	9.2	7.0	140	2.6
18	25	300	20	16	190	8.2	7.0	130	2.5
19	27	400	29	16	180	7.8	7.4	120	2.4
20	25	350	24	16	170	7.3	7.4	100	2.0
21	21	300	17	15	160	6.5	7.0	95	1.8
22	22	250	15	15	150	6.1	6.6	90	1.6
23	20	200	11	15	140	5.7	4.9	85	1.1
24	18	400	19	13	120	4.2	4.9	85	1.1
25	19	560	29	12	100	3.2	5.7	90	1.4
26	20	480	26	12	90	2.9	5.7	70	1.1
27	19	440	23	12	80	2.6	5.3	50	.72
28	19	390	20	12	75	2.4	5.3	55	.79
29	20	400	22	12	70	2.3	5.3	60	.86
30	17	350	16	11	70	2.1	5.7	70	1.1
31	---	---	---	12	75	2.4	---	---	---
MONTH	752	---	639	471	---	206.0	237.8	---	80.77

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	7.0	75	1.4	10	70	1.9	12	90	2.9
2	7.4	80	1.6	8.6	65	1.5	12	70	2.3
3	7.4	90	1.8	8.1	90	2.0	12	90	2.9
4	6.6	100	1.8	8.2	120	2.7	11	110	3.3
5	7.9	110	2.3	9.4	150	3.8	12	140	4.5
6	11	140	4.2	8.9	120	2.9	12	150	4.9
7	12	150	4.9	10	90	2.4	12	160	5.2
8	12	175	5.7	12	70	2.3	12	170	5.5
9	12	200	6.5	14	80	3.0	13	190	6.7
10	11	220	6.5	12	75	2.4	12	160	5.2
11	12	240	7.8	12	70	2.3	12	130	4.2
12	10	220	5.9	13	65	2.3	12	110	3.6
13	10	200	5.4	14	80	3.0	12	100	3.2
14	12	235	7.6	15	120	4.9	12	95	3.1
15	12	230	7.5	14	110	4.2	11	90	2.7
16	12	220	7.1	14	100	3.8	12	85	2.8
17	10	230	6.2	13	90	3.2	11	80	2.4
18	9.6	240	6.2	12	80	2.6	12	90	2.9
19	9.0	200	4.9	14	500	19	12	100	3.2
20	9.0	140	3.4	16	600	26	11	110	3.3
21	7.9	90	1.9	16	520	22	12	100	3.2
22	7.9	60	1.3	14	550	21	12	95	3.1
23	8.2	80	1.8	14	450	17	11	90	2.7
24	8.0	90	1.9	12	410	13	9.0	95	2.3
25	6.8	110	2.0	12	360	12	11	110	3.3
26	6.9	90	1.7	11	320	9.5	11	115	3.4
27	6.5	80	1.4	11	290	8.6	11	105	3.1
28	6.5	70	1.2	11	260	7.7	11	100	3.0
29	8.2	75	1.7	11	230	6.8	11	95	2.8
30	9.0	80	1.9	12	170	5.[illegible]	10	90	2.4
31	11	85	2.5	12	120	3.	---	---	---
MONTH	286.8	---	118.0	374.2	---	223.2	346.0	---	104.1
YEAR	12060.5		65593.65						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
NOV.										
23...	0720	8.0	21	503	29	36	49	57	62	64
DEC.										
01...	1540	15.5	32	248	21	--	--	--	--	--
10...	0800	9.0	21	181	10	--	--	--	--	--
JAN.										
04...	1345	15.0	373	3560	3590	37	49	62	68	70
06...	0835	5.0	189	3110	1590	33	50	66	77	81
07...	1125	8.0	2160	8670	50600	28	33	47	62	74
28...	1730	16.5	46	56	7.0	--	--	--	--	--
MAY										
20...	1620	25.0	16	698	30	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.										
23...	65	--	68	--	89	--	100	--	--	--
DEC.										
01...	--	44	--	49	--	72	--	96	--	100
10...	--	8	--	8	--	26	--	75	--	100
JAN.										
04...	72	--	72	--	80	--	99	--	100	--
06...	82	--	83	--	90	--	98	--	100	--
07...	81	--	86	--	94	--	100	--	--	--
28...	--	68	--	82	--	91	--	100	--	--
MAY										
20...	7	--	8	--	14	--	67	--	100	--

11109550 PIRU CREEK ABOVE FRENCHMANS FLAT, CALIF.

LOCATION.--Lat 34°37'43", long 118°44'42", in NW¼SW¼NW¼ sec.12, T.6 N., R.18 W., Los Angeles County, on right bank of concrete-lined channel beside Interstate Highway 5, 1 mi (2 km) north of Frenchmans Flat, and 12.5 mi (20.1 km) north of Castaic.

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Specific conductance: March 1972 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum recorded, 2,540 micromhos Dec. 29; minimum recorded, 459 micromhos Mar. 7.
Period of record:
Specific conductance: Maximum recorded, 2,540 micromhos Dec. 29, 1973; minimum recorded, 338 micromhos Nov. 30, 1972.

REMARKS.--Records of discharge are not published in Part 1 of this report. Gaging station 700 ft upstream operated by California Department of Water Resources. Missing specific conductance record due to recorder malfunction Jan. 1 to Mar. 4, Mar. 15, Apr. 8-24, 27, May 6-27, June 13, July 3-13, July 17 to Sept. 3, Sept. 12.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1880	1750	1810	1410	1390	1400	1410	855	1160			
2	1820	1720	1780	1380	1310	1340	1210	995	1090			
3	1900	1680	1840	1350	1290	1320	1010	957	974			
4	1890	1710	1760	1280	1130	1200	1000	950	979			
5	1760	1370	1700	1160	1080	1120	1100	1010	1050			
6	1730	1600	1650	1410	1070	1180	1030	971	1020			
7	1670	1520	1620	1350	1200	1260	1080	1000	1040			
8	1580	1520	1570	1340	1210	1270	1100	834	1020			
9	1670	1550	1600	1320	1180	1230	1070	964	1020			
10	1700	1600	1640	1310	1250	1280	1100	1000	1050			
11	1800	1690	1740	1330	1170	1300	1080	676	1030			
12	1870	1770	1820	1340	1220	1290	1050	999	1030			
13	1880	1790	1840	1280	1220	1250	1040	957	1000			
14	1940	1860	1900	1230	1170	1210	1040	981	1030			
15	1930	1810	1890	1220	1160	1190	1060	999	1030			
16	1980	1910	1940	1160	1090	1120	1070	1040	1060			
17	2000	1800	1940	1250	1120	1130	1640	1060	1240			
18	1960	1910	1940	1280	1110	1210	1890	1670	1790			
19	2020	1850	1930	1090	996	1020	1950	1740	1800			
20	1890	1830	1860	1020	980	995	1910	1760	1810			
21	1850	1790	1810	1020	980	997	2110	1550	1860			
22	1800	1730	1770	1050	902	985	1880	1330	1690			
23	1760	1650	1720	1050	989	1020	2040	1830	1930			
24	1740	1560	1660	999	959	972	2070	1930	1990			
25	1530	1410	1470	982	940	954	2170	1940	2040			
26	1490	1390	1440	969	915	941	2240	2100	2160			
27	1420	1370	1390	937	892	919	2260	2170	2230			
28	1420	1340	1380	972	900	941	2400	2260	2310			
29	1380	1320	1360	946	891	916	2540	2250	2370			
30	1430	1350	1380	986	878	943	2260	1940	2140			
31	1430	1320	1380	---	---	---	2520	1950	2230			
MONTH	2020	1320	1690	1410	878	1130	2540	676	1490			

11109550 PIRU CREEK ABOVE FRENCHMANS FLAT, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	606	576	579	618	540	603
2				---	---	---	624	582	591	609	588	598
3				---	---	---	594	585	590	600	576	588
4				---	---	---	588	588	588	595	568	587
5				506	485	492	596	509	570	589	577	531
6				514	493	500	596	566	591	---	---	---
7				543	459	495	596	587	591	---	---	---
8				548	464	502	---	---	---	---	---	---
9				478	469	473	---	---	---	---	---	---
10				483	477	480	---	---	---	---	---	---
11				492	486	491	---	---	---	---	---	---
12				518	485	499	---	---	---	---	---	---
13				511	505	508	---	---	---	---	---	---
14				525	519	524	---	---	---	---	---	---
15				---	---	---	---	---	---	---	---	---
16				598	541	546	---	---	---	---	---	---
17				546	546	546	---	---	---	---	---	---
18				547	544	545	---	---	---	---	---	---
19				548	545	547	---	---	---	---	---	---
20				540	540	540	---	---	---	---	---	---
21				583	541	545	---	---	---	---	---	---
22				552	552	552	---	---	---	---	---	---
23				553	544	551	---	---	---	---	---	---
24				552	546	550	---	---	---	---	---	---
25				576	543	546	652	628	639	---	---	---
26				568	544	558	656	611	635	---	---	---
27				570	570	570	---	---	---	---	---	---
28				613	571	576	635	614	624	537	519	530
29				649	574	584	626	599	614	548	533	550
30				580	574	576	621	606	611	584	515	550
31				579	576	577	---	---	---	---	---	---
MONTH				649	459	534	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	597	537	585	661	622	649				---	---	---
2	603	573	590	667	613	656				---	---	---
3	645	558	593	---	---	---				---	---	---
4	616	508	593	---	---	---				612	592	604
5	631	511	604	---	---	---				615	597	605
6	634	595	615	---	---	---				606	585	599
7	635	614	626	---	---	---				600	564	594
8	644	605	630	---	---	---				603	570	591
9	657	603	641	---	---	---				618	573	591
10	675	633	652	---	---	---				606	570	589
11	675	642	662	---	---	---				600	555	588
12	688	661	676	---	---	---				---	---	599
13	---	---	---	---	---	---				609	567	590
14	613	574	603	637	607	621				597	564	584
15	613	574	603	651	609	635				591	558	580
16	627	585	611	659	620	645				597	567	583
17	623	584	611	---	---	---				591	573	582
18	623	602	611	---	---	---				591	570	581
19	631	604	620	---	---	---				591	555	577
20	636	612	625	---	---	---				594	552	577
21	638	608	630	---	---	---				597	561	573
22	644	614	636	---	---	---				585	540	564
23	655	631	646	---	---	---				648	564	586
24	669	633	652	---	---	---				588	555	575
25	654	627	645	---	---	---				639	540	580
26	656	635	645	---	---	---				633	561	581
27	679	625	648	---	---	---				690	561	587
28	664	634	651	---	---	---				588	567	578
29	657	609	642	---	---	---				585	561	578
30	656	626	646	---	---	---				585	564	575
31	---	---	---	---	---	---				---	---	---
MONTH	688	508	627	---	---	---				690	540	585

11109600 PIRU CREEK ABOVE LAKE PIRU, CALIF.

LOCATION (revised).--Lat 34°31'23", long 118°45'22", in SW¼NE¼NW¼ sec.15, T.5 N., R.18 W., Ventura County, 100 ft (30 m) upstream from gaging station on left bank near Blue Point, 1.3 mi (2.1 km) downstream from Agua Blanca Creek, 4.3 mi (6.9 km) upstream from Santa Felicia Dam, and 8.0 mi (12.9 km) northeast of Piru.

DRAINAGE AREA.--372 mi^2 (963 km^2).

PERIOD OF RECORD.--Specific conductance: March 1971 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum recorded, 1,650 micromhos Oct. 9; minimum recorded, 558 micromhos Mar. 8.
Period of record:
Specific conductance: Maximum recorded, 1,980 micromhos June 3, 1973; minimum recorded, 464 micromhos Apr. 22, 1973.

REMARKS.--Prior to Dec. 15, 1972, at site 0.3 mi (0.5 km) upstream. Periods of missing record due to recorder malfunction Oct. 10-24, Dec. 26 to Mar. 6, Mar. 20 to Apr. 9, July 25-30, Aug. 21, 24, 26-31, Sept. 2, 4-7; probe out of communication June 1-4. Probe and instrument moved 100 ft (30 m) upstream July 30.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1480	1280	1380	1400	1360	1380	1450	748	1150			
2	1490	1290	1410	1380	1350	1370	954	954	954			
3	1530	1290	1420	1390	1360	1380	1300	967	1180			
4	1540	1230	1410	1400	1360	1380	1310	1270	1290			
5	1550	1280	1430	1410	1370	1390	1330	1280	1300			
6	1520	1360	1450	1440	1370	1390	1340	1270	1300			
7	1520	1340	1440	1430	1370	1390	1360	1290	1310			
8	1550	1400	1470	1390	1310	1350	1360	1290	1320			
9	1650	1390	1540	1350	1300	1330	1330	1250	1290			
10	---	---	---	1350	1290	1330	1360	1260	1300			
11	---	---	---	1350	1300	1330	1320	1280	1300			
12	---	---	---	1380	1310	1340	1300	1270	1290			
13	---	---	---	1360	1310	1340	1290	1230	1250			
14	---	---	---	1400	1320	1350	1300	1230	1280			
15	---	---	---	1370	1320	1360	1320	1180	1260			
16	---	---	---	1380	1310	1340	1300	1180	1270			
17	---	---	---	1350	1220	1320	1300	1180	1270			
18	---	---	---	1580	1190	1310	1320	1250	1260			
19	---	---	---	1460	1340	1380	1340	1280	1310			
20	---	---	---	1410	1350	1370	1330	1280	1300			
21	---	---	---	1410	1360	1390	1310	1270	1290			
22	---	---	---	1400	1220	1350	1310	1240	1270			
23	---	---	---	1400	1300	1350	1300	1240	1260			
24	---	---	---	1440	1330	1400	1360	1230	1270			
25	1470	1420	1440	1430	1350	1390	1310	1250	1270			
26	1490	1420	1460	1430	1350	1400	---	---	---			
27	1470	1420	1450	1480	1400	1430	---	---	---			
28	1500	1440	1460	1470	1410	1430	---	---	---			
29	1450	1400	1430	1460	1420	1450	---	---	---			
30	1420	1370	1390	1480	1430	1450	---	---	---			
31	1400	1370	1390	---	---	---	---	---	---			
MONTH	---	---	---	1580	1190	1370	1450	748	1260			

11109600 PIRU CREEK ABOVE LAKE PIRU, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	---	---	---	732	677	713
2				---	---	---	---	---	---	749	687	711
3				---	---	---	---	---	---	768	691	714
4				---	---	---	---	---	---	732	698	716
5				---	---	---	---	---	---	730	689	711
6				---	---	---	---	---	---	720	676	703
7				902	755	880	---	---	---	753	683	714
8				855	558	704	---	---	---	820	669	725
9				756	727	741	---	---	---	817	673	726
10				718	706	712	922	703	756	813	662	715
11				703	668	686	780	687	713	836	656	700
12				717	647	668	744	674	702	686	651	672
13				698	613	645	726	690	704	793	653	689
14				624	605	616	721	697	705	801	650	709
15				619	606	614	720	680	701	845	649	714
16				620	608	614	768	687	719	810	646	704
17				622	611	615	753	689	716	819	643	703
18				621	607	615	738	707	724	794	645	683
19				629	617	624	746	697	727	676	640	656
20				---	---	---	750	697	730	665	639	646
21				---	---	---	748	688	723	719	629	659
22				---	---	---	754	699	727	720	615	682
23				---	---	---	751	703	733	717	603	678
24				---	---	---	754	716	738	827	565	672
25				---	---	---	771	716	746	669	627	652
26				---	---	---	780	704	741	666	629	650
27				---	---	---	782	704	740	669	632	652
28				---	---	---	745	691	725	664	636	652
29				---	---	---	745	691	722	663	643	655
30				---	---	---	743	687	719	734	644	667
31				---	---	---	---	---	---	750	600	649
MONTH				---	---	---	---	---	---	845	565	687

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	955	890	929	919	858	894	920	875	890
2	---	---	---	953	888	926	913	845	886	---	---	---
3	---	---	---	956	886	928	907	862	886	900	855	875
4	---	---	---	966	897	933	917	856	887	---	---	---
5	935	875	906	969	900	937	911	858	887	---	---	---
6	937	883	911	970	898	939	905	863	888	---	---	---
7	938	889	909	968	904	939	907	850	882	---	---	---
8	923	880	904	968	902	936	901	844	876	889	855	880
9	943	878	906	966	895	934	899	846	878	941	862	882
10	947	875	909	958	898	932	901	855	881	880	846	866
11	938	876	910	961	902	934	914	865	890	883	845	863
12	936	874	907	968	893	936	920	859	893	874	844	860
13	940	875	911	973	899	938	937	849	885	904	839	866
14	947	883	915	969	916	937	893	855	876	884	842	862
15	949	882	916	950	883	921	925	868	881	868	841	854
16	941	898	920	967	900	936	893	866	881	863	837	852
17	943	889	921	966	906	938	887	872	879	863	824	845
18	941	885	917	968	900	937	957	874	886	851	817	835
19	940	876	909	963	891	929	895	868	880	848	818	833
20	930	872	906	948	897	924	896	866	876	853	811	829
21	937	876	909	960	893	925	---	---	---	846	811	829
22	933	877	906	964	897	931	892	862	879	846	808	830
23	937	873	910	954	885	921	969	863	888	851	802	832
24	950	882	918	972	884	918	---	---	---	856	802	834
25	951	886	927	---	---	---	934	881	894	856	799	832
26	966	891	933	---	---	---	---	---	---	891	796	837
27	981	889	931	---	---	---	---	---	---	862	801	837
28	973	898	948	---	---	---	---	---	---	885	809	847
29	977	901	946	---	---	---	---	---	---	871	821	840
30	963	894	935	---	---	---	---	---	---	849	818	835
31	---	---	---	921	868	898	---	---	---	---	---	---
MONTH	981	872	917	973	868	930	---	---	---	941	796	850

11109800 PIRU CREEK BELOW SANTA FELICIA DAM, CALIF.

LOCATION.--Lat 34°27'37", long 118°45'04", in Temescal Grant, Ventura County, at gaging station on right bank 750 ft (229 m) downstream from Santa Felicia Dam, 1 mi (2 km) upstream from Lime Canyon, and 4 mi (6 km) northeast of Piru.

DRAINAGE AREA.--425 mi^2 (1,100 km^2).

PERIOD OF RECORD.--Specific conductance: February to September 1974.

EXTREMES.--February to September 1974:
Specific conductance: Maximum recorded, 1,170 micromhos Sept. 29, 30; minimum recorded, 920 micromhos July 11.

REMARKS.--Equipment malfunction Jan. 3 to Feb. 13, Feb. 28 to Mar. 26, July 12-23.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1050	1010	1030	1070	1040	1050
2	---	---	---	---	---	---	1050	1030	1040	1070	1030	1050
3	---	---	---	---	---	---	1040	1010	1020	1070	1040	1050
4	---	---	---	---	---	---	1040	1010	1030	1070	1030	1050
5	---	---	---	---	---	---	1040	1010	1030	1070	1020	1050
6	---	---	---	---	---	---	1050	1020	1040	1070	1030	1060
7	---	---	---	---	---	---	1040	1020	1040	1060	1020	1040
8	---	---	---	---	---	---	1040	1010	1030	1060	1020	1040
9	---	---	---	---	---	---	1060	1020	1030	1060	1030	1050
10	---	---	---	---	---	---	1050	1020	1030	1070	1020	1060
11	---	---	---	---	---	---	1050	1020	1040	1060	1030	1050
12	---	---	---	---	---	---	1050	1020	1040	1050	1020	1040
13	---	---	---	---	---	---	1060	1030	1050	1060	1030	1050
14	1090	1050	1080	---	---	---	1050	1010	1030	1060	1030	1050
15	1080	1070	1080	---	---	---	1050	997	1030	1060	1030	1040
16	1080	1080	1080	---	---	---	1050	1010	1040	1050	1030	1040
17	1070	1060	1070	---	---	---	1060	988	1040	1060	1030	1050
18	1080	1070	1070	---	---	---	1050	1000	1030	1050	1030	1040
19	1080	1060	1070	---	---	---	1050	1010	1030	1050	1030	1040
20	1070	1070	1070	---	---	---	1050	1010	1040	1050	1030	1040
21	1070	1070	1070	---	---	---	1040	1000	1020	1050	1020	1040
22	1060	1050	1060	---	---	---	1050	1010	1030	1060	1020	1030
23	1060	1050	1060	---	---	---	1050	1020	1040	1040	1020	1030
24	1050	1040	1040	---	---	---	1050	1020	1030	1050	1030	1040
25	1060	1040	1050	---	---	---	1070	1030	1050	1050	1010	1030
26	1040	1030	1040	---	---	---	1070	1040	1060	1050	1010	1030
27	1040	1040	1040	1050	1020	1040	1070	1040	1060	1050	1010	1030
28	---	---	---	1050	1020	1040	1080	1030	1050	1040	1010	1030
29	---	---	---	1050	1020	1040	1070	1020	1040	1030	1020	1030
30	---	---	---	1050	1030	1040	1070	1010	1050	1030	1020	1020
31	---	---	---	1050	1010	1040	---	---	---	1030	1020	1020
MONTH	---	---	---	---	---	---	1080	988	1040	1070	1010	1040

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1030	1000	1020	958	922	945	1050	1020	1040	1090	1040	1060
2	1020	1010	1020	970	943	958	1030	931	958	1070	1020	1050
3	1020	1010	1020	969	945	958	955	933	944	1080	1040	1060
4	1020	1010	1010	956	932	946	968	947	957	1090	1050	1070
5	1020	1010	1010	962	941	950	996	931	960	1100	1060	1080
6	1020	999	1010	964	937	951	1040	996	1020	1080	1030	1060
7	1010	1000	1010	957	930	950	1040	1000	1020	1080	1050	1060
8	1020	992	1000	965	941	950	1030	1000	1020	1090	1060	1070
9	1010	984	998	980	938	962	1030	998	1010	1110	1070	1090
10	1010	979	993	966	925	957	1030	1000	1010	1110	1070	1090
11	999	981	991	963	920	948	1040	1000	1010	1120	1070	1090
12	1000	976	990	---	---	---	1040	995	1020	1120	1090	1100
13	1000	977	989	---	---	---	1030	987	1010	1120	1090	1110
14	996	969	982	---	---	---	1040	996	1020	1130	1100	1120
15	994	964	979	---	---	---	1040	1010	1020	1130	1090	1110
16	993	956	974	---	---	---	1050	1010	1030	1110	1080	1100
17	984	960	973	---	---	---	1040	993	1020	1120	1080	1100
18	979	925	963	---	---	---	1070	1010	1040	1120	1090	1100
19	974	959	965	---	---	---	1080	1020	1050	1120	1090	1110
20	978	948	962	---	---	---	1070	1040	1060	1140	1090	1120
21	971	923	960	---	---	---	1090	1050	1070	1130	1100	1110
22	960	942	955	---	---	---	1070	1010	1050	1140	1100	1120
23	967	937	954	---	---	---	1070	1020	1040	1160	1080	1130
24	962	938	951	998	952	977	1060	994	1030	1160	1110	1140
25	963	927	946	992	952	970	1060	1010	1040	1160	1140	1150
26	977	947	961	977	954	964	1050	978	1030	1150	1130	1140
27	982	952	966	976	951	969	1040	971	1020	1150	1110	1140
28	985	949	972	982	921	960	1050	1000	1020	1160	1120	1140
29	984	951	968	999	945	976	1060	1020	1030	1170	1130	1150
30	980	932	964	1020	984	995	1050	1000	1030	1170	1140	1160
31	---	---	---	1050	1010	1030	1080	1020	1050	---	---	---
MONTH	1030	923	982	---	---	---	1090	931	1020	1170	1020	1100

11111500 SESPE CREEK NEAR WHEELER SPRINGS, CALIF.

LOCATION.--Lat 34°34'40", long 119°15'25", in SE¼NW¼SW¼ sec.30, T.6 N., R.22 W., Ventura County, temperature recorder at gaging station at Sespe Gorge, 1.6 mi (2.6 km) upstream from Tule Creek, 5 mi (8 km) upstream from Cold Springs damsite, and 5 mi (8 km) northeast of Wheeler Springs.

DRAINAGE AREA.--49.5 mi^2 (128.2 km^2).

PERIOD OF RECORD.--Water temperatures: February 1962 to current year.
Sediment records: Water year 1956 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum recorded, 28.0°C Aug. 6, 7; minimum, 1.0°C Jan. 4, 5.
Period of record:
Water temperatures: Maximum, 29.0°C Aug. 11, 1964; minimum, freezing point on several days in 1970 and 1971.

REMARKS.--Recorder malfunction July 16-23, Aug. 14-18, Sept. 27-30.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	11.0	11.0	9.0	7.0	6.0	8.0	6.0	8.0	5.5	10.5	8.5
2	15.5	10.5	11.0	9.0	6.0	4.0	5.5	4.0	7.0	4.0	10.5	8.0
3	14.5	9.5	10.5	7.0	6.5	3.5	4.0	3.5	6.5	4.0	11.0	6.5
4	14.5	9.5	10.0	5.0	7.0	4.5	4.0	1.0	8.0	4.5	10.0	5.5
5	14.0	9.5	8.5	5.5	6.5	4.5	3.5	1.0	7.0	4.5	11.0	6.5
6	13.0	9.0	10.0	6.0	6.5	4.5	3.5	2.0	6.0	3.0	12.0	8.0
7	13.5	10.0	11.0	9.0	7.0	4.5	3.5	2.0	6.5	3.0	11.5	8.0
8	14.0	11.0	10.5	8.5	7.0	5.0	4.0	2.0	7.0	3.5	8.5	4.5
9	12.0	10.0	10.5	6.0	6.5	4.0	6.0	3.5	8.0	4.0	12.0	6.0
10	11.5	8.5	11.0	8.5	6.5	3.5	6.5	4.5	8.0	4.0	12.0	6.5
11	12.0	8.5	11.0	8.5	6.5	3.5	6.5	5.0	8.5	4.5	13.0	8.0
12	13.0	9.0	10.5	9.0	6.5	4.5	7.0	5.5	7.0	4.0	14.0	8.5
13	13.5	9.5	8.5	6.0	8.0	4.5	8.0	5.5	6.5	4.5	14.0	9.0
14	14.0	9.5	9.0	6.5	7.0	6.0	8.0	5.0	7.0	4.0	14.5	9.0
15	13.0	9.0	8.0	4.5	6.0	4.0	8.0	5.5	8.5	4.5	15.0	9.5
16	13.0	9.0	9.0	5.5	6.5	4.5	6.5	5.5	8.0	4.5	14.0	9.5
17	13.0	8.5	9.5	8.5	8.0	4.5	8.0	[illegible]	7.0	4.5	14.5	9.5
18	13.5	10.0	9.0	6.5	6.5	5.0	9.0	[illegible]	8.5	4.0	14.0	9.5
19	14.5	11.0	6.5	3.5	5.5	3.0	8.0	3.5	8.0	5.5	14.0	9.5
20	13.5	10.5	6.5	4.0	5.0	2.0	8.0	5.5	7.0	3.5	14.5	10.5
21	12.0	10.0	6.5	5.5	6.5	4.0	7.0	5.5	8.0	3.5	15.0	10.5
22	12.0	9.0	6.0	3.5	6.0	4.5	6.0	4.0	9.0	5.5	14.0	9.5
23	13.5	11.0	5.5	3.5	5.0	4.0	7.0	4.5	8.5	4.0	14.5	9.0
24	11.5	8.5	7.0	4.0	6.5	4.0	7.0	4.5	8.5	4.0	15.0	9.5
25	11.0	8.0	5.5	4.0	7.0	4.5	8.0	4.5	10.5	4.0	14.0	9.5
26	11.0	8.0	5.5	4.5	8.5	5.0	7.0	5.0	10.5	6.0	13.0	10.5
27	10.5	7.0	6.5	3.5	9.0	7.0	6.5	4.0	11.0	7.0	13.5	9.5
28	10.5	6.5	7.0	4.5	9.5	8.5	8.0	5.5	11.0	7.0	15.5	10.0
29	11.0	8.5	7.0	4.5	10.5	9.0	6.5	3.5	---	---	15.0	10.0
30	10.0	7.0	6.5	4.5	9.5	7.0	8.0	4.5	---	---	14.5	10.5
31	10.5	8.0	---	---	8.0	6.0	8.0	4.5	---	---	13.5	8.5
MONTH	16.0	6.5	11.0	3.5	10.5	2.0	9.0	1.0	11.0	3.0	15.5	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	9.5	19.0	11.0	20.0	13.5	23.5	15.5	27.0	20.0	22.0	12.5
2	13.5	9.5	19.0	11.0	21.5	13.5	23.5	15.5	26.5	20.0	21.5	13.5
3	14.0	8.5	18.0	11.0	23.5	14.5	23.0	15.5	27.0	20.0	24.5	16.0
4	15.0	8.0	17.0	12.0	23.0	15.0	23.5	15.5	26.5	20.0	25.5	16.0
5	15.5	9.0	18.0	11.5	22.0	15.0	23.5	16.5	26.5	20.0	25.0	15.5
6	15.5	10.0	20.0	13.0	23.5	15.5	23.5	16.5	28.0	20.0	25.0	16.0
7	16.5	10.0	20.5	12.0	23.5	15.0	23.0	15.5	28.0	20.0	24.0	16.5
8	16.5	10.5	21.5	13.5	22.0	13.5	21.5	15.0	26.0	19.0	24.0	16.5
9	15.0	10.5	21.0	13.5	22.0	13.5	22.0	15.5	25.5	18.0	25.0	17.0
10	13.5	8.0	20.0	13.0	23.0	14.0	21.5	15.0	25.5	18.0	24.0	16.5
11	16.0	9.0	21.0	13.0	23.5	14.5	22.0	14.0	25.5	18.0	24.0	15.0
12	17.0	11.0	21.0	13.5	24.0	15.0	22.0	14.0	25.0	17.0	23.5	15.5
13	17.0	10.5	20.0	13.0	23.5	14.0	22.0	14.5	23.5	17.0	22.0	13.5
14	17.0	10.5	20.5	12.0	23.5	14.5	22.0	16.5	---	---	20.5	12.0
15	18.0	11.0	20.5	13.0	22.0	15.0	23.0	18.0	---	---	21.0	12.5
16	18.0	11.0	19.0	12.0	21.0	13.5	---	---	---	---	20.5	13.0
17	16.5	10.0	17.0	10.5	20.0	11.5	---	---	---	---	22.0	14.0
18	16.0	10.0	15.5	10.0	20.0	12.0	---	---	---	---	21.5	14.5
19	16.0	10.5	15.5	9.0	20.0	11.0	---	---	24.5	17.0	21.0	13.0
20	15.5	10.5	17.0	9.5	21.5	13.0	---	---	23.5	14.5	23.0	15.0
21	17.0	10.0	18.5	11.0	22.0	13.5	---	---	23.0	14.0	22.0	14.0
22	16.5	11.0	19.5	11.0	23.0	14.5	---	---	24.0	15.5	22.0	14.5
23	15.0	9.5	19.5	13.0	23.5	15.5	---	---	24.0	16.0	22.0	14.5
24	13.0	10.5	21.0	10.0	23.0	14.5	27.0	21.5	23.5	14.5	21.5	14.5
25	15.0	8.5	22.0	13.5	23.5	15.0	26.5	21.0	22.0	12.5	21.0	14.0
26	15.5	9.0	22.0	14.0	22.0	13.5	26.0	19.5	22.0	13.0	22.0	15.0
27	16.0	9.0	22.0	13.5	23.0	13.5	26.0	19.0	22.5	13.5	---	---
28	15.5	9.5	21.0	13.5	22.0	13.5	25.5	19.5	23.5	14.5	---	---
29	17.0	10.0	20.5	12.0	23.0	15.5	26.5	19.5	23.0	14.0	---	---
30	18.5	11.0	21.0	13.0	23.5	15.5	26.5	20.5	22.5	14.0	---	---
31	---	---	21.0	12.0	---	---	26.5	19.0	23.0	13.5	---	---
MONTH	18.5	8.0	22.0	9.0	24.0	11.0	---	---	28.0	12.5	25.5	12.0

11113000 SESPE CREEK NEAR FILLMORE, CALIF.

LOCATION.--Lat 34°27'03", long 118°55'30", in NE¼NW¼NE¼ sec.12, T.4 N., R.20 W., Ventura County, at gaging station 0.1 mi (0.2 km) downstream from Little Sespe Creek, and 3.5 mi (5.6 km) north of Fillmore.

DRAINAGE AREA.--251 mi^2 (650 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1966 to current year.
Specific conductance: October 1969 to current year.
Water temperatures: October 1966 to current year.
Sediment records: Water years 1956-62 (partial-record station), October 1966 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum, 1,120 micromhos Nov. 19; minimum recorded, 442 micromhos Jan. 15.
Sediment concentrations: Maximum daily, 7,430 mg/l Jan. 7; minimum daily, 2 mg/l on several days.
Sediment discharge: Maximum daily, 107,000 tons (97,100 tonnes) Jan. 7; minimum daily, 0 tons (0 tonnes) July 31, Aug. 1.
Period of record:
Specific conductance: Maximum, 1,360 micromhos July 27, 1970; minimum (1970 to current year), 185 micromhos Dec. 25, 1971.
Water temperatures (1969-70): Maximum, 29.5°C July 4, 18, 20, 1970; minimum, 4.5°C Jan. 4, 1970.
Sediment concentrations: Maximum daily, 31,800 mg/l Jan. 25, 1969; minimum daily, 1 mg/l on many days in 1966-69.
Sediment discharge: Maximum daily, 2,950,000 tons (2,680,000 tonnes) Jan. 25, 1969; minimum daily, 0 tons (0 tonnes) on many days in most years.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Specific conductance probe in silt Mar. 8; recorder malfunction Mar. 22-26, May 27, 28; mineral build-up on probe June 18-26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
NOV.							
20...	1130	30	353	56	795	1.08	64.4
JAN.							
29...	1130	122	236	15	540	.73	178
APR.							
23...	1030	45	232	20	529	.72	64.3
JULY							
23...	1045	.76	293	55	698	.95	1.43

DATE	HARDNESS (CA,MG) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
NOV.						
20...	427	1100	8.1	12.0	20	11.0
JAN.						
29...	362	780	8.2	9.5	4	11.6
APR.						
23...	325	750	8.3	15.0	150	10.1
JULY						
23...	372	920	8.2	26.5	2	12.0

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1010	959	989	974	977	987	1040	532	738	1030	999	1010
2	1020	962	994	1000	978	989	771	665	710	1020	977	996
3	1030	955	995	996	976	986	822	768	792	1000	924	983
4	1030	944	994	986	971	978	862	817	845	970	748	866
5	1060	978	1010	989	971	978	860	812	837	863	812	841
6	1060	1010	1020	997	975	987	980	850	890	865	649	771
7	1050	996	1020	1010	1000	1000	980	920	950	931	553	790
8	1070	993	1030	1020	1000	1010	980	940	960	734	584	695
9	1070	982	1010	1040	1010	1030	990	960	970	719	615	683
10	1050	970	1010	1050	1020	1030	1000	970	980	595	552	567
11	1080	982	1010	1050	1020	1040	1000	980	990	575	562	567
12	1080	986	1010	1050	1040	1050	1000	980	990	563	530	554
13	1080	978	1020	1050	1020	1030	990	980	990	513	478	498
14	1050	980	1010	1040	1030	1030	1010	990	1000	463	446	453
15	1050	978	1020	1050	1020	1040	1010	990	1000	470	442	455
16	1070	974	1020	1050	1040	1050	1030	990	1010	459	445	452
17	1060	969	1010	1060	747	1030	1030	1000	1010	473	445	465
18	1040	968	1010	1020	665	868	1030	1000	1010	508	494	502
19	1050	948	987	1120	1050	1090	1020	992	1010	526	508	514
20	1040	944	974	1080	1040	1060	1010	979	993	543	540	541
21	1030	936	973	1040	1000	1020	1010	976	995	575	561	569
22	1010	926	959	1010	772	962	1010	977	993	599	592	597
23	977	927	954	1030	827	972	1010	971	988	654	634	646
24	981	963	972	1030	991	1010	1010	972	987	696	660	676
25	981	963	971	1040	992	1010	1000	965	983	701	669	685
26	982	967	972	1040	996	1020	1010	974	990	707	695	702
27	987	968	977	1040	1000	1020	1000	981	991	733	709	719
28	992	975	981	1040	1010	1020	1030	984	1010	747	723	736
29	1000	972	986	1040	1010	1020	1030	1010	1020	760	744	751
30	1020	993	1000	1040	1010	1030	1040	1010	1020	768	753	760
31	1010	986	996	---	---	---	1030	988	1010	773	758	765
MONTH	1080	926	996	1120	665	1010	1040	532	957	1030	442	671

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	772	766	768	818	770	807	698	690	694	803	736	784
2	786	765	774	746	501	804	714	694	704	826	712	785
3	788	770	776	592	494	807	714	698	704	791	784	787
4	793	772	780	613	560	578	706	686	698	795	752	788
5	807	777	791	648	613	536	718	694	705	795	784	791
6	800	782	790	657	642	588	726	710	717	791	784	789
7	802	781	789	660	571	629	734	706	723	795	784	789
8	804	780	793	---	---	---	734	718	726	799	774	786
9	812	791	800	602	532	648	734	726	729	786	778	784
10	817	796	805	620	567	591	728	716	723	798	771	783
11	819	801	809	636	620	630	733	709	722	783	768	779
12	821	800	810	680	628	636	735	719	728	788	637	728
13	820	805	812	644	620	634	740	720	732	657	629	645
14	822	804	813	652	628	641	745	725	736	674	658	665
15	827	806	816	656	636	647	755	731	740	682	666	676
16	826	808	816	656	640	647	756	740	747	687	671	680
17	829	808	818	656	640	649	757	741	748	692	672	680
18	828	804	817	656	644	650	755	743	750	696	676	688
19	824	809	814	652	599	639	764	744	754	713	689	702
20	823	790	808	775	605	647	769	741	758	730	706	715
21	823	799	809	814	576	660	775	751	765	750	722	732
22	819	795	807	---	---	---	776	756	767	798	747	778
23	815	788	802	---	---	---	773	757	764	802	771	791
24	814	787	801	---	---	---	779	759	766	807	766	804
25	820	787	804	---	---	---	788	756	772	805	767	789
26	819	786	807	---	---	---	788	760	775	813	779	796
27	821	797	810	722	662	701	791	764	781	---	---	---
28	809	800	804	706	698	703	795	772	782	---	---	---
29	---	---	---	714	702	710	795	780	789	738	714	728
30	---	---	---	714	694	704	795	780	791	735	719	729
31	---	---	---	702	686	696	---	---	---	740	724	732
MONTH	829	765	802	818	494	663	795	686	743	826	629	748

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	818	725	759	838	781	812	928	879	907	907	857	897
2	827	742	806	836	794	814	924	875	905	914	876	899
3	832	801	823	837	795	818	928	883	906	876	869	871
4	829	787	814	839	789	816	932	883	904	873	857	866
5	826	788	812	844	798	824	921	879	902	873	857	868
6	829	780	809	868	800	825	921	837	898	903	869	884
7	826	814	820	923	813	837	921	875	900	903	884	895
8	826	784	812	856	818	838	927	870	895	903	888	897
9	829	788	811	915	812	847	907	881	891	907	884	898
10	829	780	812	870	847	857	906	872	892	907	884	897
11	837	791	824	875	807	846	902	871	889	907	892	900
12	845	791	822	850	801	830	908	878	892	911	892	904
13	841	780	821	863	806	839	911	877	896	922	911	916
14	841	756	815	864	841	852	914	880	895	922	911	915
15	845	760	817	858	831	848	917	879	896	923	907	917
16	845	736	805	863	836	851	918	880	899	927	908	919
17	833	788	819	868	837	856	908	882	896	923	900	917
18	---	---	---	883	856	868	913	879	901	927	904	912
19	---	---	---	887	856	872	919	885	904	921	906	913
20	---	---	---	891	856	873	920	882	906	927	908	918
21	---	---	---	891	864	878	922	887	906	922	907	915
22	---	---	---	894	864	877	923	884	915	932	909	921
23	---	---	---	894	860	878	918	884	903	934	904	924
24	---	---	---	894	864	878	903	880	894	932	910	925
25	---	---	---	898	864	882	899	884	894	938	919	928
26	---	---	---	906	860	881	903	888	895	941	894	919
27	828	778	804	898	860	879	903	892	895	921	898	910
28	905	776	814	898	868	884	903	892	896	917	886	904
29	835	778	809	906	845	880	903	892	897	909	883	899
30	836	775	810	898	831	886	903	888	898	905	879	896
31	---	---	---	921	875	902	907	892	897	---	---	---
MONTH	---	---	---	923	781	856	932	837	899	941	857	905

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	12.0	---	---	12.0	---	---	---	---	---	---
2	---	---	8.0	9.0	---	---	---	---	---	27.5	---	---
3	---	---	10.0	---	---	9.5	---	16.5	---	---	---	---
4	---	---	10.0	6.0	---	11.0	17.0	---	22.0	---	22.0	26.0
5	---	---	11.0	7.0	11.0	10.0	---	---	17.0	24.0	---	24.0
6	---	18.5	11.0	8.0	---	---	18.0	20.0	---	---	---	---
7	---	17.0	11.0	8.0	---	11.0	---	---	18.5	---	---	---
8	---	---	9.0	8.0	---	8.0	---	15.0	---	---	19.0	---
9	---	---	---	7.0	10.0	10.5	15.0	---	---	27.0	---	---
10	---	---	---	8.0	---	10.0	---	19.5	---	---	28.0	---
11	---	---	11.0	8.0	---	12.0	---	---	24.0	---	---	---
12	---	15.0	---	10.0	---	14.0	18.0	---	---	---	---	24.0
13	---	---	---	11.0	---	15.0	---	19.5	---	24.0	---	---
14	---	---	---	9.0	7.5	---	---	---	27.0	---	23.0	---
15	---	---	9.0	12.0	12.0	---	---	---	---	---	---	---
16	---	16.0	---	10.0	---	13.0	20.5	---	---	23.0	---	---
17	---	17.0	---	11.0	---	---	---	19.5	---	---	---	23.0
18	---	13.0	---	12.0	---	---	---	---	22.5	---	---	20.0
19	---	13.0	11.0	10.0	11.0	14.5	17.5	---	---	---	---	---
20	---	13.0	---	10.0	---	---	---	---	---	26.0	23.0	---
21	---	12.0	---	10.0	10.0	---	---	20.0	27.0	---	---	22.5
22	---	12.0	9.0	9.0	---	13.5	14.0	---	---	---	19.0	22.0
23	---	8.0	---	9.0	---	---	---	---	---	---	---	---
24	18.0	12.0	---	11.0	---	---	---	24.5	24.0	29.0	24.0	---
25	---	10.0	10.0	10.0	10.0	---	11.0	---	---	---	---	---
26	---	12.0	12.0	9.0	---	14.0	19.0	---	20.5	---	---	19.0
27	---	7.0	---	9.0	9.0	15.0	---	---	---	24.0	---	---
28	19.0	13.0	---	11.0	10.0	14.0	---	25.5	28.0	---	24.0	22.5
29	---	12.0	10.0	---	---	---	20.0	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	24.5	---	23.0
31	18.0	---	---	---	---	---	---	20.0	---	---	26.0	---
MONTH	---	---	---	9.5	---	---	---	---	---	---	---	---

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	1.2	5	.02	3.8	3	.03	203	1530	1780
2	1.2	5	.02	3.9	3	.03	125	280	116
3	1.2	4	.01	3.7	3	.03	47	45	5.7
4	1.3	4	.01	3.5	3	.03	34	20	1.8
5	1.1	4	.01	3.4	2	.02	28	10	.76
6	1.1	4	.01	3.2	2	.02	25	5	.34
7	1.2	4	.01	3.5	2	.02	23	4	.25
8	1.5	4	.02	2.8	3	.02	22	4	.24
9	2.4	5	.03	1.9	3	.02	20	4	.22
10	2.9	5	.04	1.9	3	.02	20	5	.27
11	2.9	5	.04	1.9	4	.02	19	5	.26
12	3.0	6	.05	1.9	4	.02	19	4	.21
13	3.8	6	.06	3.0	4	.03	19	4	.21
14	5.0	6	.08	3.5	4	.04	19	3	.15
15	3.7	5	.05	3.5	4	.04	18	3	.15
16	2.4	5	.03	3.4	4	.04	18	4	.19
17	2.5	5	.03	26	180	88	18	5	.24
18	2.5	5	.03	71	380	126	17	6	.28
19	2.8	4	.03	46	25	3.1	17	7	.32
20	3.7	4	.04	30	25	2.0	16	8	.35
21	2.9	4	.03	25	20	1.4	16	9	.39
22	2.4	4	.03	28	45	5.5	19	30	1.5
23	6.6	4	.07	30	50	4.3	18	15	.73
24	5.1	3	.04	25	15	1.0	18	10	.49
25	3.9	3	.03	23	10	.62	18	5	.24
26	3.7	3	.03	21	9	.51	18	4	.19
27	3.6	3	.03	20	10	.54	18	3	.15
28	3.4	3	.03	19	9	.46	19	3	.15
29	3.1	3	.03	19	5	.26	19	2	.10
30	2.5	2	.01	19	5	.26	18	3	.15
31	3.0	2	.02	---	---	---	17	3	.14
TOTAL	87.6	---	.97	450.8	---	234.38	925	---	1912.17

	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	4	.19	105	7	2.0	54	15	2.2
2	17	4	.18	101	7	1.9	327	235	228
3	18	5	.24	97	6	1.6	350	200	235
4	81	680	811	92	6	1.5	211	50	28
5	86	215	52	91	6	1.5	159	25	11
6	458	3660	7720	87	6	1.4	134	20	7.2
7	4410	7430	107000.0	83	7	1.6	175	125	79
8	1400	2350	15600	79	7	1.5	590	340	586
9	430	130	151	78	7	1.5	356	70	67
10	266	70	50	75	7	1.4	318	50	43
11	190	35	18	73	7	1.4	284	45	35
12	242	55	45	71	6	1.2	257	40	28
13	355	70	67	72	6	1.2	230	35	22
14	290	40	31	70	6	1.1	212	30	17
15	260	30	21	68	6	1.1	199	25	13
16	306	55	55	67	6	1.1	186	25	13
17	662	325	612	65	5	.88	175	20	9.5
18	614	170	282	65	5	.88	168	20	9.1
19	694	380	784	64	5	.86	162	45	20
20	530	110	157	63	5	.85	154	30	12
21	440	60	71	62	5	.84	146	20	7.9
22	323	45	39	61	6	.99	138	10	3.7
23	260	30	21	59	7	1.1	130	8	2.8
24	211	20	11	59	8	1.3	124	7	2.3
25	185	20	10	57	10	1.5	118	6	1.9
26	170	18	8.3	56	11	1.7	118	5	1.6
27	152	12	4.9	55	13	1.9	127	40	14
28	132	11	3.9	53	14	2.0	121	9	2.9
29	122	10	3.3	---	---	---	112	7	2.1
30	119	9	2.9	---	---	---	113	6	1.8
31	108	8	2.3	---	---	---	109	6	1.8
TOTAL	13549	---	133634.2	2028	---	37.80	6057	---	1507.8

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	103	6	1.7	31	4	.33	15	3	.12
2	99	5	1.3	31	5	.42	16	3	.13
3	99	5	1.3	31	6	.50	16	4	.17
4	91	5	1.2	30	6	.49	15	4	.16
5	84	5	1.1	31	6	.50	16	5	.22
6	81	5	1.1	35	30	2.8	15	7	.28
7	78	6	1.3	31	25	2.1	14	10	.38
8	73	7	1.4	28	20	1.5	14	8	.30
9	72	7	1.4	27	18	1.3	14	6	.23
10	70	6	1.1	27	15	1.1	13	5	.18
11	67	5	.90	26	10	.70	13	4	.14
12	65	4	.70	25	5	.34	13	4	.14
13	62	4	.67	25	3	.20	12	4	.13
14	59	3	.48	25	2	.14	12	4	.13
15	58	3	.47	24	2	.13	10	4	.11
16	56	3	.45	23	2	.12	9.0	3	.07
17	56	3	.45	24	2	.13	8.0	3	.06
18	54	3	.44	26	3	.21	7.5	3	.06
19	50	3	.41	26	3	.21	7.0	3	.06
20	49	3	.40	25	3	.20	6.5	3	.05
21	47	3	.38	24	3	.19	6.0	3	.05
22	45	3	.36	23	3	.19	5.0	4	.05
23	44	3	.36	22	4	.24	4.7	5	.06
24	41	3	.33	23	4	.25	4.5	6	.07
25	40	3	.32	20	4	.22	4.0	6	.06
26	40	3	.32	17	4	.18	3.5	6	.06
27	37	3	.30	16	4	.17	2.5	7	.05
28	34	3	.28	15	4	.16	2.6	7	.05
29	33	3	.27	15	4	.16	2.8	7	.05
30	32	4	.35	15	3	.12	2.8	6	.05
31	---	---	---	15	3	.12	---	---	---
TOTAL	1819	---	21.54	756	---	15.42	284.4	---	3.67

	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	2.8	6	.05	.46	4	0	.27	15	.01
2	2.6	5	.04	.58	10	.02	2.1	10	.06
3	2.6	4	.03	.64	20	.03	4.2	8	.09
4	2.6	3	.02	.71	35	.07	4.6	6	.07
5	2.5	3	.02	.71	30	.06	5.0	4	.05
6	2.4	4	.03	.71	30	.06	3.4	3	.03
7	2.4	5	.03	.71	25	.05	1.4	4	.02
8	2.3	6	.04	.78	25	.05	.85	5	.01
9	2.1	7	.04	.78	20	.04	1.2	5	.02
10	2.0	7	.04	.85	20	.05	1.3	6	.02
11	1.9	8	.04	.71	18	.03	.78	6	.01
12	1.8	8	.04	.78	15	.03	.71	7	.01
13	1.6	8	.03	.71	13	.02	.71	7	.01
14	1.5	10	.04	.78	11	.02	.71	6	.01
15	1.4	13	.05	.85	12	.03	.78	6	.01
16	1.3	15	.05	2.3	15	.09	.85	5	.01
17	1.2	15	.05	1.0	14	.04	.85	5	.01
18	1.1	15	.04	.71	13	.02	.86	5	.01
19	1.0	16	.04	.85	12	.03	.78	4	.01
20	.92	16	.04	1.0	11	.03	.78	4	.01
21	.86	13	.03	.85	10	.02	.71	4	.01
22	.80	10	.02	.78	9	.02	.77	3	.01
23	.76	9	.02	.78	8	.02	.71	3	.01
24	.71	8	.02	.71	7	.01	.69	3	.01
25	.67	7	.01	.64	7	.01	.86	4	.01
26	.64	6	.01	.58	6	.01	.87	4	.01
27	.60	6	.01	.52	6	.01	.84	4	.01
28	.58	5	.01	.52	6	.01	.95	4	.01
29	.54	4	.01	.46	10	.01	1.0	4	.01
30	.52	4	.01	.40	15	.02	.96	4	.01
31	.46	4	0	.35	20	.02	---	---	---
TOTAL	45.16	---	.91	23.21	---	.93	40.49	---	.58
YEAR	26065.66		137370.4						

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
18...	0810	13.0	68	422	77	43	64	75	85	95
23...	0725	8.0	29	55	4.3	--	--	--	--	--
DEC.										
01...	1415	11.0	263	1080	767	33	46	59	73	85
01...	1635	11.0	163	409	180	34	51	65	78	88
02...	0840	8.0	126	308	105	45	67	83	--	--
JAN.										
07...	1205	9.0	6500	10400	183000	23	28	43	58	74
07...	1630	8.0	5450	12500	184000	22	24	40	54	70
08...	1215	8.0	1090	1290	3800	--	--	--	--	--
09...	1200	8.0	425	146	168	--	--	--	--	--
17...	1220	10.0	644	302	525	--	--	--	--	--
MAR.										
02...	1005	11.0	59	339	54	40	52	66	78	88
02...	1455	12.0	450	245	298	--	--	30	40	55
03...	0940	9.5	400	318	343	39	51	63	76	84
07...	1820	9.5	211	211	120	46	57	69	79	87
08...	1010	8.0	662	357	638	22	29	37	46	54
08...	1805	9.0	495	169	226	--	--	--	--	--
19...	1455	14.5	165	72	32	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 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.										
18...	--	100	--	--	--	--	--	--	--	--
23...	--	96	--	--	--	--	--	--	--	--
DEC.										
01...	94	--	99	--	99	--	100	--	--	--
01...	96	--	99	--	99	--	100	--	--	--
02...	--	98	--	99	--	100	--	--	--	--
JAN.										
07...	90	--	98	--	100	--	--	--	--	--
07...	86	--	96	--	99	--	100	--	--	--
08...	83	--	91	--	99	--	100	--	--	--
09...	--	84	--	92	--	97	--	100	--	--
17...	--	51	--	56	--	66	--	79	92	100
MAR.										
02...	--	93	--	97	--	99	--	99	100	--
02...	--	74	--	90	--	98	--	100	--	--
03...	--	89	--	94	--	97	--	99	100	--
07...	--	93	--	96	--	100	--	--	--	--
08...	--	62	--	70	--	79	--	88	96	100
08...	--	72	--	81	--	90	--	100	--	--
19...	--	90	--	94	--	97	--	100	--	--

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CALIF.

LOCATION.--Lat 34°23'44", long 119°04'32", in NW¼SW¼SW¼ sec.27, T.4 N., R.21 W., Ventura County, at gaging station on right bank, 15 ft (5 m) upstream from Santa Paula Water Works diversion dam, 200 ft (61 m) upstream from Mud Creek, and 3 mi (5 km) north of Santa Paula.

DRAINAGE AREA.--40.0 mi^2 (103.6 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1966 to current year.
Specific conductance: April 1969 to current year.
Water temperatures: April 1969 to September 1970.

EXTREMES.--Current year:
Specific conductance: Maximum recorded, 1,070 micromhos Nov. 18; minimum recorded, 325 micromhos Dec. 1.
Period of record:
Specific conductance: Maximum recorded, 1,370 micromhos Oct. 14, 1972; minimum recorded, 325 micromhos Dec. 1, 1973.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Conductivity equipment malfunction Jan. 9 to Mar. 8, Aug. 20 to Sept. 10. Probe out of water or affected by moss Apr. 11, 12, May 30 to Aug. 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
NOV.							
20...	0945	12	253	32	633	.86	20.5
JAN.							
29...	0945	29	153	13	384	.52	30.1
APR.							
23...	0830	13	170	16	467	.64	16.4
JULY							
23...	0845	5.4	189	26	531	.72	7.74

DATE	HARDNESS (CA,MG) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
NOV.						
20...	380	900	8.2	12.0	4	11.4
JAN.						
29...	266	620	8.1	10.0	3	11.2
APR.						
23...	276	650	8.2	14.0	3	10.7
JULY						
23...	305	730	8.2	23.0	2	8.9

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	899	765	849	950	830	890	697	325	513	955	894	928
2	888	765	844	928	843	894	597	493	548	964	911	936
3	885	751	832	906	837	883	653	610	632	944	913	934
4	871	751	830	915	839	886	704	673	691	950	594	849
5	886	750	829	913	833	885	731	711	722	993	822	962
6	863	752	830	916	838	886	780	751	764	1020	519	816
7	865	763	834	924	834	890	795	766	781	537	383	479
8	866	782	835	923	839	892	793	774	782	670	509	618
9	864	765	831	918	850	892	824	792	802	---	---	---
10	873	781	841	933	841	898	851	828	836	---	---	---
11	895	775	846	944	847	905	858	835	847	---	---	---
12	886	769	844	944	866	905	869	854	860	---	---	---
13	891	779	851	921	847	894	827	797	818	---	---	---
14	900	779	861	925	844	895	839	797	824	---	---	---
15	911	792	867	922	841	889	841	808	830	---	---	---
16	913	789	867	929	852	899	882	814	841	---	---	---
17	905	796	870	951	736	900	866	819	846	---	---	---
18	934	793	873	1070	823	896	883	836	858	---	---	---
19	926	798	877	949	914	930	877	825	858	---	---	---
20	939	825	894	929	901	915	904	830	862	---	---	---
21	927	827	894	912	886	902	877	844	864	---	---	---
22	926	829	891	906	626	870	886	847	868	---	---	---
23	935	842	903	942	874	905	889	852	876	---	---	---
24	930	833	898	942	898	918	897	847	880	---	---	---
25	928	838	894	933	898	912	908	850	884	---	---	---
26	941	845	906	927	896	914	902	855	886	---	---	---
27	953	842	904	931	891	910	908	891	901	---	---	---
28	935	833	892	932	889	905	916	869	902	---	---	---
29	937	838	894	915	635	781	919	863	905	---	---	---
30	932	843	897	692	641	669	930	875	912	---	---	---
31	941	828	894	---	---	---	955	886	927	---	---	---
MONTH	953	750	867	1070	626	887	955	325	817	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	640	622	628	738	613	685
2				---	---	---	671	631	646	723	641	696
3				---	---	---	656	627	643	734	678	710
4				---	---	---	667	636	650	738	684	719
5				---	---	---	678	634	658	746	654	712
6				---	---	---	685	631	655	748	515	736
7				---	---	---	678	636	660	602	514	569
8				---	---	---	674	636	661	596	539	579
9				488	441	471	682	640	663	635	575	606
10				459	438	449	689	645	665	645	528	599
11				464	449	455	---	---	---	639	555	608
12				466	452	459	---	---	---	655	602	632
13				484	457	463	677	617	656	651	587	626
14				478	463	471	698	614	660	659	586	633
15				491	478	484	725	625	664	673	633	657
16				515	493	500	723	616	663	677	636	661
17				528	507	515	689	615	665	689	627	664
18				543	519	527	693	631	666	682	628	658
19				541	526	532	684	610	659	697	629	666
20				560	539	546	681	608	658	697	633	669
21				560	547	551	697	603	660	696	630	672
22				565	556	559	700	603	663	704	637	681
23				586	563	570	687	623	666	723	652	693
24				588	577	581	710	618	668	714	650	690
25				603	582	591	724	629	682	745	672	711
26				607	592	599	723	626	681	764	690	731
27				705	565	611	710	619	681	766	702	740
28				642	609	617	730	620	683	770	695	730
29				640	614	623	718	617	682	735	731	735
30				671	616	629	728	610	683	---	---	---
31				665	616	633	---	---	---	---	---	---
MONTH				---	---	---	730	603	663	770	514	671

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	---	---	---
2							---	---	---	---	---	---
3							---	---	---	---	---	---
4							---	---	---	---	---	---
5							---	---	---	---	---	---
6							---	---	---	---	---	---
7							808	683	741	---	---	---
8							684	645	669	---	---	---
9							785	646	768	---	---	---
10							786	630	737	---	---	---
11							796	621	739	913	786	862
12							759	619	709	906	783	858
13							784	614	725	910	786	861
14							781	568	716	910	802	868
15							768	611	704	916	791	869
16							748	613	666	927	789	865
17							790	609	712	910	783	860
18							839	614	726	899	780	852
19							784	622	720	899	783	851
20							---	---	---	899	777	849
21							---	---	---	913	789	861
22							---	---	---	906	780	857
23							---	---	---	906	783	853
24							---	---	---	889	775	847
25							---	---	---	892	805	856
26							---	---	---	896	816	867
27							---	---	---	923	827	888
28							---	---	---	947	808	888
29							---	---	---	958	825	906
30							---	---	---	975	839	913
31							---	---	---	---	---	---
MONTH							---	---	---	---	---	---

11113900 SATICOY DIVERSION NEAR SATICOY, CALIF.

LOCATION.--Lat 34°17'06", long 119°07'14", in Santa Paula Y Saticoy Grant, Ventura County, at gaging station on diversion ditch, 0.7 mi (1.1 km) downstream from Santa Clara River, and 1.5 mi (2.4 km) east of Saticoy.

PERIOD OF RECORD.--Specific conductance: April 1969 to current year.
Water temperatures: April 1969 to September 1970.

EXTREMES.--Current year:
Specific conductance: Maximum, 1,970 micromhos Sept. 10; minimum, 876 micromhos Mar. 11.
Period of record:
Specific conductance: Maximum, 2,320 micromhos Oct. 21, 1972; minimum, 825 micromhos Jan. 19, 1971.

REMARKS.--Probe out of water Nov. 2-9, Jan. 7-29, Apr. 12-15.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1400	1380	1400	1730	1700	1710	1700	979	1420	1630	1580	1600
2	1410	1380	1390	---	---	---	1250	1010	1150	1600	1460	1520
3	1390	1360	1380	---	---	---	1390	1250	1310	1510	1470	1490
4	1400	1350	1380	---	---	---	1490	1390	1440	1490	914	1210
5	1400	1370	1390	---	---	---	1540	1460	1500	1420	1180	1310
6	1400	1360	1380	---	---	---	1580	1500	1540	1410	886	1270
7	1390	1360	1380	---	---	---	1590	1530	1560	---	---	---
8	1400	1360	1380	---	---	---	1620	1560	1590	---	---	---
9	1400	1360	1380	---	---	---	1630	1570	1600	---	---	---
10	1400	1360	1380	1780	1740	1760	1640	1580	1610	---	---	---
11	1400	1350	1380	1790	1720	1760	1630	1560	1600	---	---	---
12	1400	1350	1380	1790	1770	1780	1630	1570	1610	---	---	---
13	1400	1360	1380	1790	1750	1770	1630	1600	1610	---	---	---
14	1410	1370	1390	1790	1740	1770	1640	1600	1620	---	---	---
15	1410	1380	1400	1820	1770	1790	1630	1590	1610	---	---	---
16	1400	1360	1380	1810	1770	1790	1630	1580	1610	---	---	---
17	1400	1360	1380	1790	1750	1770	1630	1580	1610	---	---	---
18	1540	1390	1440	1730	1460	1590	1620	1570	1600	---	---	---
19	1640	1550	1580	1610	1520	1570	1630	1560	1590	---	---	---
20	1650	1600	1630	1670	1590	1620	1630	1560	1590	---	---	---
21	1650	1580	1630	1690	1630	1660	1610	1570	1600	---	---	---
22	1660	1630	1650	1680	1280	1630	1630	1530	1580	---	---	---
23	1660	1640	1650	1570	1210	1400	1640	1570	1600	---	---	---
24	1680	1650	1660	1660	1560	1600	1620	1560	1590	---	---	---
25	1670	1640	1660	1660	1620	1650	1620	1550	1590	---	---	---
26	1690	1640	1660	1690	1620	1650	1620	1570	1600	1150	998	1080
27	1750	1670	1710	1700	1610	1660	1620	1590	1600	1220	1110	1160
28	1740	1710	1730	1710	1650	1680	1650	1590	1610	1290	1160	1220
29	1740	1710	1730	1710	1640	1680	1650	1590	1620	1250	1190	1210
30	1750	1700	1730	1710	1640	1670	1650	1600	1620	1270	1190	1230
31	1730	1710	1720	---	---	---	1630	1570	1610	1300	1200	1240
MONTH	1750	1350	1510	---	---	---	1700	979	1560	---	---	---

11113900 SATICOY DIVERSION NEAR SATICOY, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C) , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1280	1230	1250	1470	1420	1440	1280	1210	1240	1490	1430	1450
2	1320	1210	1270	1410	1110	1200	1290	1220	1250	1460	1440	1450
3	1330	1230	1280	1110	948	1050	1290	1210	1250	1480	1450	1470
4	1350	1250	1300	1050	917	978	1290	1210	1250	1500	1480	1490
5	1360	1260	1310	1110	1010	1050	1310	1220	1270	1520	1420	1470
6	1340	1240	1280	1160	1060	1100	1310	1250	1290	1520	1280	1460
7	1340	1230	1290	1130	1090	1110	1320	1250	1290	1530	1410	1500
8	1350	1260	1310	1020	923	999	1330	1280	1300	1600	1470	1560
9	1360	1270	1320	1010	893	947	1340	1270	1300	1610	1490	1570
10	1380	1270	1330	996	898	944	1340	1250	1300	1600	1480	1550
11	1390	1300	1340	1020	876	945	1330	1280	1310	1550	1490	1520
12	1380	1290	1340	989	913	952	---	---	---	1530	1430	1510
13	1390	1290	1340	1040	935	980	---	---	---	1500	1420	1480
14	1400	1300	1350	1060	992	1020	---	---	---	1510	1460	1480
15	1410	1330	1370	1060	1010	1040	---	---	---	1500	1430	1470
16	1420	1330	1380	1070	1020	1050	1420	1350	1390	1490	1450	1470
17	1430	1350	1390	1100	1030	1060	1420	1350	1380	1480	1430	1460
18	1450	1350	1390	1100	1050	1080	1410	1350	1380	1510	1430	1460
19	1430	1360	1400	1080	1050	1070	1410	1330	1370	1510	1420	1450
20	1460	1340	1400	1090	1060	1070	1420	1340	1390	1530	1430	1460
21	1450	1370	1410	1120	1080	1100	1420	1350	1390	1490	1410	1470
22	1470	1370	1420	1130	1100	1110	1430	1370	1400	1510	1470	1490
23	1470	1380	1420	1170	1110	1120	1430	1370	1400	1530	1480	1510
24	1480	1370	1410	1200	1140	1170	1420	1350	1370	1540	1500	1520
25	1500	1380	1440	1190	1160	1180	1430	1350	1400	1540	1500	1500
26	1500	1400	1450	1230	1170	1190	1450	1370	1410	1560	1540	1550
27	1490	1400	1450	1230	1070	1190	1460	1100	1440	1580	1540	1560
28	1450	1400	1430	1210	1170	1200	1500	1430	1470	1590	1560	1580
29	---	---	---	1260	1200	1230	1530	1430	1500	1580	1560	1570
30	---	---	---	1280	1210	1230	1570	1380	1480	1580	1540	1560
31	---	---	---	1270	1210	1240	---	---	---	1610	1560	1580
MONTH	1500	1210	1360	1470	876	1100	1570	1100	1350	1610	1280	1500

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1610	1360	1510	1710	1640	1650	1650	1460	1550	1800	1700	1750
2	1430	1350	1380	1710	1650	1700	1700	1550	1630	1820	1730	1770
3	1440	1340	1370	1720	1680	1700	1690	1550	1630	1780	1660	1740
4	1430	1350	1400	1710	1690	1700	1630	1450	1550	1800	1560	1720
5	1420	1360	1390	1760	1700	1710	1650	1510	1560	1720	1590	1660
6	1500	1360	1420	1740	1640	1700	1630	1500	1580	1740	1560	1660
7	1510	1400	1440	1740	1710	1730	1650	1460	1570	1760	1710	1730
8	1560	1430	1510	1760	1650	1710	1640	1540	1580	1760	1730	1750
9	1570	1530	1540	1800	1700	1740	1690	1500	1590	1800	1760	1770
10	1630	1570	1580	1800	1650	1750	1730	1600	1650	1970	1770	1840
11	1620	1510	1590	1800	1700	1760	1660	1500	1620	1940	1780	1850
12	1540	1520	1530	1780	1670	1740	1750	1530	1660	1860	1710	1760
13	1540	1500	1530	1720	1620	1660	1700	1560	1650	1740	1700	1730
14	1560	1510	1530	1670	1590	1650	1820	1660	1730	1750	1630	1720
15	1550	1540	1540	1630	1530	1600	1850	1670	1750	1750	1590	1730
16	1570	1370	1490	1650	1600	1620	1900	1690	1840	1770	1560	1720
17	1420	1350	1380	1710	1620	1650	1950	1760	1840	1760	1730	1750
18	1400	1390	1400	1730	1640	1660	1910	1740	1830	1770	1630	1750
19	1420	1390	1400	1710	1590	1670	1940	1620	1750	1780	1750	1760
20	1430	1390	1420	1730	1610	1670	1740	1620	1700	1860	1700	1810
21	1510	1440	1470	1710	1610	1660	1720	1630	1660	1820	1720	1770
22	1540	1500	1520	1670	1600	1620	1670	1440	1600	1810	1740	1780
23	1570	1500	1530	1690	1580	1620	1630	1380	1530	1820	1780	1800
24	1540	1520	1530	1720	1550	1630	1590	1360	1440	1830	1800	1810
25	1580	1540	1550	1690	1540	1600	1500	1360	1410	1830	1630	1800
26	1620	1550	1580	1560	1510	1540	1620	1380	1460	1840	1810	1820
27	1630	1550	1580	1630	1470	1530	1630	1390	1540	1850	1810	1830
28	1610	1570	1600	1560	1480	1500	1610	1390	1530	1900	1800	1840
29	1670	1620	1630	1530	1390	1470	1670	1540	1610	1880	1830	1840
30	1650	1570	1640	1590	1430	1480	1720	1630	1670	1840	1710	1820
31	---	---	---	1630	1460	1530	1760	1640	1710	---	---	---
MONTH	1670	1340	1500	1800	1390	1640	1950	1360	1630	1970	1560	1770

11114000 SANTA CLARA RIVER AT MONTALVO, CALIF.

LOCATION.--Lat 34°14'31", long 119°11'21", in San Miguel Grant, Ventura County, at gaging station on southbound bridge on U.S. Highway 101, and 0.9 mi (1.4 km) southeast of Montalvo.

DRAINAGE AREA.--1,612 mi^2 (4,175 km^2).

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1969, October 1970 to current year.
Sediment records: October 1967 to current year.
Prior to October 1969, published as "at Saticoy" (sta 11113920).

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 12,200 mg/l Jan. 7; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 330,000 tons (299,000 tonnes) Jan. 7; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 69,200 mg/l Feb. 25, 1969; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 20,400,000 tons (18,500,000 tonnes) Feb. 25, 1969; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--Miscellaneous analyses of chemical data published for water year 1969. No flow Oct. 1 to Nov. 16, Nov. 27-30, Dec. 9-21, Dec. 25 to Jan. 3, Apr. 1, Apr. 11 to Sept. 30. Sediment table omitted for period of no flow during July to September.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	15.0	---	---	13.5	---	---	---	---	---	---
2	---	---	12.0	---	---	13.0	23.0	---	---	---	---	---
3	---	---	16.0	---	---	12.5	---	---	---	---	---	---
4	---	---	---	7.0	---	17.0	---	---	---	---	---	---
5	---	---	---	8.0	---	10.0	---	---	---	---	---	---
6	---	---	---	8.0	12.0	---	18.0	---	---	---	---	---
7	---	---	---	8.0	---	---	---	---	---	---	---	---
8	---	---	---	7.0	---	11.0	---	---	---	---	---	---
9	---	---	---	11.0	---	13.5	---	---	---	---	---	---
10	---	---	---	12.0	---	14.0	---	---	---	---	---	---
11	---	---	---	10.0	---	9.5	---	---	---	---	---	---
12	---	---	---	11.0	---	---	---	---	---	---	---	---
13	---	---	---	12.0	---	15.0	---	---	---	---	---	---
14	---	---	---	15.0	---	---	20.0	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	12.0	---	17.0	---	---	---	---	---	---
17	---	---	---	12.0	---	---	---	---	---	---	---	---
18	---	---	---	12.0	---	16.0	---	---	---	---	---	---
19	---	---	---	12.0	9.0	17.0	21.0	---	---	---	---	---
20	---	---	---	12.0	---	---	---	---	---	---	---	---
21	---	---	---	14.0	---	---	---	---	---	---	---	---
22	---	---	14.0	9.0	---	---	---	---	---	---	---	---
23	---	15.0	13.5	---	---	13.5	---	---	---	---	---	---
24	---	15.0	---	---	---	---	---	---	---	---	---	---
25	---	---	---	15.0	---	---	---	---	---	---	---	---
26	---	---	---	---	---	17.0	---	---	---	---	---	---
27	---	---	10.0	---	---	---	---	---	---	---	---	---
28	---	---	---	---	13.0	16.0	---	---	---	---	---	---
29	---	---	---	10.0	---	---	---	---	---	---	---	---
30	---	---	---	---	---	17.0	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11114000 SANTA CLARA RIVER AT MONTALVO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	0	0	0	100	1900	513
2	0	0	0	0	0	0	60	270	44
3	0	0	0	0	0	0	20	210	11
4	0	0	0	0	0	0	10	90	2.4
5	0	0	0	0	0	0	6.0	30	.49
6	0	0	0	0	0	0	2.0	20	.11
7	0	0	0	0	0	0	1.0	10	.03
8	0	0	0	0	0	0	.50	0	0
9	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0
17	0	0	0	2.0	30	.16	0	0	0
18	0	0	0	40	500	54	0	0	0
19	0	0	0	15	110	4.5	0	0	0
20	0	0	0	5.0	30	.41	0	0	0
21	0	0	0	1.6	20	.09	0	0	0
22	0	0	0	.50	10	.01	2.0	270	1.5
23	0	0	0	15	340	14	.50	140	.19
24	0	0	0	5.0	240	3.2	.20	70	.04
25	0	0	0	.50	60	.08	0	0	0
26	0	0	0	.05	20	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0
31	0	0	0	---	---	---	0	0	0
MONTH	0	---	0	84.65	---	76.45	202.20	---	572.76

	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	1.2	160	.52	.08	105	.02
2	0	0	0	1.1	155	.46	800	2800	6050
3	0	0	0	1.1	150	.45	590	1000	1590
4	170	1530	1170	1.0	145	.39	610	400	659
5	300	970	786	1.0	145	.39	75	85	17
6	201	520	282	.95	140	.36	2.5	50	.34
7	8700	12200	330000.0	.60	140	.23	.90	35	.09
8	4890	7430	112000.0	.30	135	.11	1500	4200	17000
9	1200	1120	4760	.15	135	.05	700	670	1270
10	700	350	662	.14	135	.05	530	350	501
11	350	200	189	.13	130	.05	470	350	444
12	400	130	140	.12	130	.04	50	270	36
13	650	360	632	.11	125	.04	10	230	6.2
14	500	220	297	.10	125	.03	2.0	130	.70
15	450	150	182	.10	125	.03	1.0	80	.22
16	600	340	551	.09	120	.03	.80	50	.11
17	1300	1400	4910	.09	120	.03	.60	30	.05
18	900	750	1820	.09	120	.03	.55	20	.03
19	1250	1100	3710	.09	115	.03	.50	10	.01
20	1000	500	1350	.09	115	.03	.45	7	.01
21	800	360	778	.09	115	.03	.40	7	.01
22	550	280	416	.09	115	.03	.35	7	.01
23	450	240	292	.09	110	.03	.30	15	.01
24	350	210	198	.09	110	.03	.25	20	.01
25	150	190	77	.09	110	.03	.23	30	.02
26	40	180	19	.09	110	.03	.20	50	.03
27	10	180	4.9	.09	110	.03	1.0	90	.24
28	1.8	175	.85	.08	105	.02	.16	50	.02
29	1.4	170	.64	---	---	---	.12	30	.01
30	1.3	165	.58	---	---	---	.10	15	0
31	1.2	160	.52	---	---	---	.05	10	0
MONTH	25916.70	---	465228.5	9.25	---	3.58	5347.54	---	27575.14

11114000 SANTA CLARA RIVER AT MONTALVO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	0	0	0	0	0
2	2.0	110	.59	0	0	0	0	0	0
3	1.0	95	.26	0	0	0	0	0	0
4	.50	80	.11	0	0	0	0	0	0
5	.10	70	.02	0	0	0	0	0	0
6	.05	65	.01	0	0	0	0	0	0
7	.02	60	0	0	0	0	0	0	0
8	.01	55	0	0	0	0	0	0	0
9	.01	50	0	0	0	0	0	0	0
10	.01	45	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0
31	---	---	---	0	0	0	---	---	---
MONTH	3.70	---	.99	0	---	0	0	---	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 31564.04
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 493457.41

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	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
DEC.										
01...	0900	15.0	100	--	2180	589	56	67	79	88
22...	1700	14.0	2.0	--	480	2.6	24	39	47	62
JAN.										
04...	1015	7.0	--	51	1250	172	42	57	74	89
08...	1000	7.0	--	4440	9990	120000	31	37	50	65
16...	1700	12.0	600	--	352	570	--	--	--	--
17...	1515	12.0	1300	--	1560	5480	28	35	51	66
20...	1645	13.0	1000	--	303	818	32	40	51	63
22...	1100	9.0	550	--	267	396	--	--	--	--
MAR.										
02...	0900	13.0	800	--	2960	6390	25	35	49	64
02...	1700	15.0	800	--	2600	5620	39	49	68	82
03...	1305	12.5	590	--	1000	1590	29	41	58	75
08...	0930	11.0	1500	--	4500	18200	28	34	47	61

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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC.										
01...	92	96	--	98	--	100	--	--	--	--
22...	81	93	--	97	--	99	--	100	--	--
JAN.										
04...	97	--	99	--	99	--	100	--	--	--
08...	77	87	--	95	--	99	--	100	--	--
16...	--	--	70	--	75	--	85	--	87	100
17...	79	90	--	96	--	99	--	100	--	--
20...	75	--	84	--	92	--	93	--	98	100
22...	--	--	78	--	89	--	98	--	100	--
MAR.										
02...	75	82	--	85	--	93	--	100	--	--
02...	91	96	--	99	--	100	--	--	--	--
03...	86	93	--	98	--	100	--	--	--	--
08...	76	86	--	95	--	99	--	100	--	--

11118500 VENTURA RIVER NEAR VENTURA, CALIF.

LOCATION.--Lat 34°21'08", long 119°18'27", in southeast corner of Santa Ana Grant, Ventura County, at gaging station 50 ft (15 m) downstream from county road bridge at Foster Memorial Park, 0.2 mi (0.3 km) downstream from Coyote Creek, and 5 mi (8 km) north of Ventura.

DRAINAGE AREA.--188 mi^2 (487 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1907 to December 1908, October 1966 to September 1968, water years 1969 to current year (partial-record station).
Water temperatures: October 1968 to September 1969, October 1970 to September 1973.
Sediment records: October 1968 to September 1973.

EXTREMES.--Period of record:
Sediment concentrations: Maximum daily, 32,000 mg/l (estimated) Jan. 25, 1969; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 2,220,000 tons (2,014,000 tonnes), estimated, Jan. 25, 1969; minimum daily, 0 tons (0 tonnes) on many days each year.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
NOV.							
19...	0815	7.9	261	45	731	.99	15.6
JAN.							
28...	0745	22	251	42	696	.95	41.3
APR.							
22...	0800	20	254	43	716	.97	38.7
JULY							
22...	0730	9.3	243	37	704	.96	17.7

DATE	HARDNESS (CA,MG) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
NOV.						
19...	455	1100	7.7	11.5	3	9.5
JAN.						
28...	459	1000	7.8	10.0	4	10.4
APR.						
22...	441	950	7.8	15.0	4	10.9
JULY						
22...	440	925	7.6	18.0	2	8.2

11143000 BIG SUR RIVER NEAR BIG SUR, CALIF.

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

DRAINAGE AREA.--46.5 mi² (120.4 km²).

PERIOD OF RECORD.--Water temperatures: October 1965 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 19.5°C July 25, 26; minimum, 7.0°C Jan. 2, 4.
Period of record:
Water temperatures: Maximum (1965-67, 1968 to current year), 21.0°C Aug. 9-11, 1971; minimum (1965-66, 1967 to current year), 5.0°C Dec. 15, 1967.

REMARKS.--Recorder stopped Feb. 5-28.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	12.0	14.5	13.5	14.5	13.0	17.0	15.5	18.5	17.5	16.5	15.5
2	12.5	12.0	14.0	12.0	15.0	13.5	16.0	15.0	18.5	17.5	16.5	15.5
3	12.0	11.5	13.0	12.0	15.0	14.0	16.0	14.5	18.5	17.5	16.5	15.5
4	12.5	11.0	12.5	12.0	16.0	14.0	17.0	15.0	18.0	17.0	17.0	16.0
5	13.0	11.5	13.5	12.5	17.5	16.0	17.5	15.5	18.5	17.5	17.0	16.0
6	13.0	11.0	14.0	12.5	18.0	16.5	17.5	16.0	18.5	17.5	17.5	16.5
7	13.0	11.5	15.0	13.5	18.0	16.0	17.0	15.5	19.0	18.0	17.5	17.0
8	13.0	11.5	15.0	13.5	17.0	15.5	16.5	15.0	18.5	17.5	17.5	17.0
9	12.5	11.0	14.5	13.5	17.0	15.0	16.5	16.0	17.5	17.0	17.5	16.5
10	12.0	11.0	14.5	13.0	16.5	15.0	17.0	16.0	17.5	17.0	17.0	16.0
11	13.0	11.0	15.0	13.5	16.0	15.0	17.0	15.5	18.0	17.0	17.0	16.0
12	13.5	12.5	15.0	14.0	16.0	14.5	17.0	15.0	17.0	16.5	16.5	15.5
13	13.5	12.0	14.5	12.0	16.0	15.0	17.5	16.0	17.0	16.0	16.5	16.0
14	13.5	12.0	14.0	12.5	16.0	14.5	18.5	16.5	17.0	15.5	16.5	15.0
15	13.0	12.0	14.0	13.0	16.5	14.5	18.5	16.5	16.0	15.0	16.0	15.0
16	13.0	12.0	13.5	12.0	16.0	15.0	18.0	16.0	16.0	15.0	16.0	15.0
17	13.0	12.0	12.5	11.0	15.5	14.5	18.5	16.5	16.0	15.0	16.0	15.5
18	12.5	12.0	12.0	10.5	15.0	14.5	19.0	17.0	16.5	15.5	16.5	15.5
19	12.5	11.5	12.5	11.0	15.0	14.0	19.0	17.5	16.5	15.5	16.0	15.0
20	13.0	11.5	12.5	11.0	16.5	14.0	19.0	17.5	16.5	15.5	15.5	15.0
21	13.5	11.0	13.5	12.0	17.5	15.5	19.0	17.0	17.0	16.0	16.0	15.0
22	13.5	12.0	14.5	13.0	17.5	16.0	18.5	16.0	17.0	15.5	16.0	15.0
23	13.0	12.0	15.0	13.5	17.5	16.0	19.0	17.5	17.5	16.5	16.0	15.0
24	12.0	11.0	15.5	13.0	17.0	15.0	19.0	17.0	17.5	16.5	15.5	14.5
25	11.5	10.0	16.0	14.5	17.0	15.0	19.5	18.5	17.0	16.0	15.0	14.5
26	12.0	10.0	17.0	15.0	17.0	15.0	19.5	18.5	16.5	15.0	15.5	15.0
27	12.5	11.0	17.0	16.0	17.0	15.0	19.0	17.5	16.5	15.5	15.5	14.5
28	13.5	11.5	16.5	14.5	18.0	16.0	18.5	17.5	16.5	15.0	15.0	14.5
29	14.0	12.5	14.5	13.0	18.0	16.5	18.5	17.5	16.5	15.0	14.5	13.5
30	14.5	13.0	14.0	12.5	18.0	16.0	18.5	17.5	16.5	15.5	15.0	14.0
31	---	---	14.0	13.0	---	---	18.5	17.5	16.5	15.5	---	---
MONTH	14.5	10.0	17.0	10.5	18.0	13.0	19.5	14.5	19.0	15.0	17.5	13.5

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CALIF.

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

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

PERIOD OF RECORD.--Water temperatures: October 1971 to current year.
Sediment records: October 1971 to current year.
Published as sta 11148800 "near Bryson" in 1958-59, 1960-64, 1965-71.

EXTREMES.--Period of Record:
Sediment concentrations: Maximum daily, 1,270 mg/l Jan. 18, 1973; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 46,700 tons (42,400 tonnes) Jan. 18, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--No flow Oct. 1 to Nov 2, Sept. 4-30. Sediment record was based on water- and sediment-discharge relations existing during previous years and 11 suspended-sediment samples collected during current year.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	10.0	11.5	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	9.0	---	---	---	---	---	---	---	31.0	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	9.5	---	21.0	---	21.5	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	8.0	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	24.5	---	---	---
12	---	---	---	---	9.5	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	10.0	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CALIF.--Continued

MONTHLY AND ANNUAL SUMMARY OF SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	DISCHARGE (CFS)	SEDIMENT DISCHARGE (TONS)
OCTOBER 1973	0	0
NOVEMBER....	2,681.26	328.44
DECEMBER....	8,247	4,055.50
JANUARY 1974	29,630	40,069.60
FEBRUARY....	2,045	5.53
MARCH.....	36,087	49,842.98
APRIL.....	12,036	1,693.98
MAY.....	1,736	9.38
JUNE.....	560.5	3.02
JULY.....	168.7	.92
AUGUST.....	16.32	.02
SEPTEMBER...	.16	0
TOTAL FOR YEAR	93,207.94	96,009.37

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
MAR. 02...	1650	10.0	3940	237	2520	10	21	24	31	36	--
APR. 02...	1215	11.5	2070	127	710	21	27	34	43	52	60

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAR. 02...	45	--	55	--	69	--	86	--	95	100
APR. 02...	--	67	--	80	--	98	--	100	--	--

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.

LOCATION.--Lat 35°53'48", long 121°05'14", in Los Ojitos Grant, Monterey County, at gaging station at 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).

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1973.
Sediment records: October 1965 to current year.

EXTREMES.--Period of record:
Sediment concentrations: Maximum daily, 7,240 mg/l Dec. 6, 1966; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 161,000 tons (146,000 tonnes) Dec. 6, 1966; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--No flow Oct. 1 to Nov. 17, July 26 to Sept. 30. Sediment record for current year was based on water- and sediment-discharge relations existing during previous years and 11 sediment samples collected during current year.

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	0.0	0.0	0	0
NOVEMBER ...	713.00	123.67	796	920
DECEMBER ...	2607.00	766.11	3610	4370
JANUARY 1974	13812.00	21131.50	15800	36900
FEBRUARY ...	2109.00	114.10	3740	3850
MARCH	21142.00	84281.00	22100	106000
APRIL	8697.00	6615.80	11300	18000
MAY	2083.00	86.93	3580	3670
JUNE	811.00	7.53	450	458
JULY	166.93	0.44	2	2
AUGUST	0.0	0.0	0	0
SEPTEMBER ..	0.0	0.0	0	0
TOTAL	52140.93	113127.08	61378	174170

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
MAR.								
02...	1755	10.5	2160	1110	6470	3	5	6
28...	1205	14.0	628	791	1340	8	12	16

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	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAR.								
02...	7	9	11	19	38	70	93	100
28...	21	28	36	44	64	90	100	--

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	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
NOV.												
20...	1330	13.0	5	48	1	4	18	50	77	89	94	100

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
NOV.								
20...	1330	13.0	5	48	95	67	2	16
DEC.								
11...	1240	12.0	45	41	60	26	1	21
JAN.								
10...	1530	10.5	34	447	173	474	10	21
FEB.								
08...	1045	4.5	31	90	105	174	8	22
MAR.								
02...	1705	10.5	7	2160	206	4060	10	19
19...	1445	14.0	27	190	136	345	7	20
28...	1220	14.0	27	628	141	645	14	31
APR.								
19...	1315	13.5	26	157	138	279	15	21
MAY								
06...	1330	16.5	40	89	127		2	19
JUNE								
06...	1300	24.0	35	29	76	16	1	18
JULY								
08...	1635	26.0	13	7.8	29	23	--	18

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
NOV.								
20...	56	85	95	98	100	--	--	--
DEC.								
11...	69	90	96	99	100	--	--	--
JAN.								
10...	57	80	90	94	99	100	--	--
FEB.								
08...	60	84	93	96	100	--	--	--
MAR.								
02...	19	47	69	80	86	94	99	100
19...	56	82	93	97	100	--	--	--
28...	55	73	83	83	89	95	100	--
APR.								
19...	62	88	96	98	99	100	--	--
MAY								
06...	59	85	94	97	99	100	--	--
JUNE								
06...	62	90	98	100	--	--	--	--
JULY								
08...	75	95	99	100	--	--	--	--

11151870 ARROYO SECO NEAR GREENFIELD, CALIF.

LOCATION.--Lat 36°14'15", long 121°28'50", in NE¼SE¼ sec.36, T.19 S., R.4 E., Monterey County, at gaging station 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).

PERIOD OF RECORD.--Water temperatures: October 1962 to current year.
Sediment records: Water year 1962 (partial-record station), October 1962 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 440 mg/l Mar. 1; minimum daily, 1 mg/l for many days.
Sediment discharge: Maximum daily, 4,140 tons (3,760 tonnes) Mar. 1; minimum daily, 0.02 ton (0.02 tonnes) on many days.
Period of record:
Water temperatures (1964-66, 1971-72): Minimum, 3.5°C Jan. 6, 9, 1972.
Sediment concentrations: Maximum daily, 3,040 mg/l Dec. 6, 1966; minimum daily, no flow many days in 1966, 1968, and 1972.
Sediment discharge: Maximum daily, 84,800 tons (76,900 tonnes) Dec. 6, 1966; minimum daily, 0 tons (0 tonnes) on many days in 1966, 1968, 1970-73.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.5	---	9.5	7.5	---	9.5	10.5	---	16.0	---	---	---
2	---	---	---	---	7.5	---	---	13.0	---	19.0	---	---
3	---	---	---	5.0	---	---	---	---	20.5	---	19.5	19.0
4	13.5	---	7.0	---	---	---	10.0	12.5	---	20.0	---	---
5	---	---	---	7.0	7.0	---	11.0	---	19.0	---	22.0	---
6	14.0	10.5	7.5	---	---	---	---	---	---	---	---	19.0
7	---	---	---	---	5.5	9.5	---	14.0	---	---	---	---
8	13.0	10.5	7.5	6.5	---	---	---	---	---	20.5	20.5	21.5
9	---	---	---	---	6.0	7.0	10.5	14.5	---	21.0	---	---
10	13.0	12.0	7.5	6.5	---	---	---	---	20.0	---	---	---
11	---	---	7.5	---	6.5	---	10.0	14.5	19.0	---	---	---
12	13.0	10.5	7.5	7.5	---	9.5	---	---	---	19.5	---	19.0
13	---	---	---	---	6.0	---	11.0	12.5	---	---	---	---
14	---	---	---	---	---	9.5	---	---	19.5	---	22.0	---
15	---	---	---	8.5	6.5	---	---	14.5	---	19.5	20.0	---
16	14.0	11.5	---	9.5	---	10.5	11.5	---	---	---	---	---
17	---	11.0	---	10.0	---	---	---	12.5	22.0	---	21.0	18.5
18	13.5	---	---	---	---	---	11.0	---	---	21.0	---	---
19	---	---	---	10.5	7.5	11.0	---	---	---	---	21.5	---
20	14.0	7.5	---	10.5	---	---	10.5	---	20.0	---	---	18.0
21	---	---	7.5	---	7.0	11.0	---	13.0	---	---	21.0	---
22	14.0	---	8.0	6.5	---	---	---	---	---	---	---	---
23	---	7.5	---	---	7.0	10.5	11.5	15.5	---	---	---	---
24	---	7.5	7.5	7.5	---	---	---	---	19.0	---	---	---
25	12.0	---	---	---	---	10.5	9.5	15.5	---	22.5	20.0	---
26	---	7.5	7.5	7.0	7.5	---	---	---	---	---	---	17.0
27	12.0	---	---	---	---	---	---	---	19.5	22.0	---	---
28	---	7.0	10.0	7.0	9.0	11.0	---	---	---	---	---	16.0
29	11.5	---	---	---	---	---	---	16.5	---	---	19.0	---
30	---	8.0	---	---	---	---	13.0	---	---	---	---	18.5
31	9.5	---	---	7.0	---	---	---	---	---	19.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.											
17...	1700	11.0	849	349	800	53	72	89	98	100	--
DEC.											
01...	0800	9.5	1690	163	744	48	56	68	80	93	100
MAR.											
01...	0900	9.5	4250	471	5410	38	47	60	75	92	100

11151870 ARROYO SECO NEAR GREENFIELD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	4.6	4	.05	15	3	.12	1550	191	1290
2	4.7	3	.04	15	3	.12	344	20	20
3	4.9	3	.04	15	.2	.08	213	3	1.7
4	5.4	3	.04	16	2	.09	159	2	.86
5	5.6	4	.06	18	1	.05	130	2	.70
6	5.4	8	.12	19	1	.05	110	2	.59
7	7.0	9	.17	22	1	.06	96	1	.26
8	16	7	.30	22	1	.06	88	1	.24
9	14	5	.19	21	1	.06	80	1	.22
10	12	4	.13	20	2	.11	73	1	.20
11	11	2	.06	22	2	.12	72	2	.39
12	10	1	.03	230	76	66	69	4	.75
13	9.8	1	.03	63	27	4.9	72	6	1.2
14	9.6	1	.03	58	23	3.7	76	4	.82
15	9.1	1	.02	43	1	.12	67	3	.54
16	9.1	2	.05	97	10	4.8	64	2	.35
17	8.8	2	.05	621	112	417	60	2	.32
18	8.8	2	.05	418	58	79	58	2	.31
19	8.8	2	.05	150	10	4.1	56	2	.30
20	8.8	2	.05	98	2	.53	54	1	.15
21	9.1	2	.05	81	2	.44	92	14	6.7
22	15	4	.20	78	4	.84	232	12	9.9
23	52	25	3.7	83	2	.45	131	2	.71
24	27	13	.95	70	1	.19	109	1	.29
25	20	5	.27	64	1	.17	96	1	.26
26	18	7	.34	60	2	.32	89	1	.24
27	17	11	.50	54	5	.73	220	5	3.8
28	16	8	.35	51	10	1.4	222	2	1.2
29	16	3	.13	49	4	.53	171	2	.92
30	15	3	.12	102	19	44	144	2	.78
31	15	3	.12	--	--	--	128	2	.69
TOTAL	393.5	--	8.29	2675	--	630.14	5125	--	1345.39

	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	147	3	1.2	157	1	.42	3040	440	4140
2	126	2	.68	150	1	.41	2600	209	1650
3	160	3	1.7	142	1	.38	1570	52	240
4	217	2	1.2	134	1	.36	1060	19	54
5	185	1	.50	123	1	.33	833	14	31
6	331	4	4.2	117	1	.32	717	4	7.7
7	871	17	50	112	2	.60	849	6	13
8	893	8	21	108	2	.58	732	3	5.9
9	636	11	19	104	1	.28	628	3	5.1
10	500	9	12	101	1	.27	558	3	4.5
11	437	7	8.3	97	1	.26	511	4	5.5
12	760	11	23	96	1	.26	486	5	6.6
13	649	4	7.0	98	1	.26	451	4	4.9
14	590	2	3.2	93	1	.25	421	4	4.5
15	602	2	3.3	89	1	.24	393	4	4.2
16	736	6	15	86	1	.23	373	4	4.0
17	999	27	75	84	1	.23	350	4	3.8
18	708	13	25	82	1	.22	331	4	3.6
19	562	4	6.1	86	1	.23	315	4	3.4
20	464	1	1.3	84	1	.23	297	4	3.2
21	390	1	1.1	79	1	.21	282	4	3.0
22	336	2	1.8	78	1	.21	268	3	2.2
23	297	3	2.4	75	1	.20	257	2	1.4
24	266	5	3.6	73	1	.20	246	2	1.3
25	244	4	2.6	72	1	.19	242	3	2.0
26	224	3	1.8	70	2	.38	240	2	1.3
27	207	3	1.7	70	2	.38	418	6	7.8
28	195	2	1.1	71	2	.38	1080	39	152
29	185	2	1.0	--	--	--	654	14	25
30	171	2	.92	--	--	--	975	37	113
31	163	2	.88	--	--	--	708	12	23
TOTAL	13251	--	297.58	2731	--	8.51	21885	--	6526.9

11151870 ARROYO SECO NEAR GREENFIELD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	899	15	60	154	1	.42	69	2	.37
2	1190	26	92	148	1	.40	68	2	.37
3	817	7	15	145	1	.39	65	15	2.6
4	681	4	7.4	141	2	.76	64	12	2.1
5	598	3	4.8	138	2	.75	62	10	1.7
6	534	3	4.3	132	2	.71	61	6	.99
7	486	2	2.6	128	3	1.0	58	4	.63
8	447	2	2.4	123	2	.66	57	2	.31
9	431	2	2.3	120	1	.32	56	2	.30
10	399	3	3.2	115	1	.31	55	1	.15
11	370	5	5.0	114	2	.62	52	6	.84
12	347	3	2.8	110	2	.59	51	4	.55
13	325	2	1.8	107	2	.58	51	3	.41
14	305	2	1.6	105	2	.57	51	2	.28
15	290	1	.78	102	2	.55	50	2	.27
16	275	1	.74	100	2	.54	49	2	.26
17	261	1	.70	100	3	.81	51	12	1.7
18	250	1	.68	102	2	.55	53	10	1.4
19	240	1	.65	102	2	.55	56	7	1.1
20	228	2	1.2	97	2	.52	53	5	.72
21	218	2	1.2	94	2	.51	50	5	.68
22	207	2	1.1	92	2	.50	48	5	.65
23	209	2	1.1	89	2	.48	45	5	.61
24	242	2	1.3	85	5	1.1	43	5	.58
25	209	2	1.1	83	18	4.0	42	5	.57
26	197	2	1.1	80	10	2.2	42	4	.45
27	186	1	.50	77	5	1.0	41	4	.44
28	179	1	.48	74	2	.40	39	4	.42
29	168	1	.45	73	2	.39	38	4	.41
30	162	1	.44	72	2	.39	37	4	.40
31	--	--	--	71	2	.38	--	--	--
TOTAL	11350	--	218.72	3273	--	22.95	1557	--	22.26

	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	37	4	.40	17	2	.09	9.1	4	.10
2	36	16	1.6	16	3	.13	8.6	2	.05
3	36	13	1.3	16	3	.13	8.6	1	.02
4	36	11	1.1	16	3	.13	8.4	1	.02
5	34	10	.92	15	3	.12	7.8	1	.02
6	33	11	.98	15	3	.12	7.2	2	.04
7	33	12	1.1	14	4	.15	6.8	1	.02
8	33	14	1.2	13	6	.21	6.6	1	.02
9	37	2	.20	14	6	.23	6.4	1	.02
10	41	2	.22	14	6	.23	6.4	1	.02
11	38	2	.21	14	6	.23	6.4	1	.02
12	35	2	.19	14	6	.23	6.4	1	.02
13	33	2	.18	14	6	.23	6.8	1	.02
14	32	3	.26	14	6	.23	7.7	1	.02
15	30	4	.32	13	3	.11	8.4	1	.02
16	28	4	.30	13	2	.07	8.3	1	.02
17	28	4	.30	13	2	.07	8.2	1	.02
18	27	5	.36	12	3	.10	7.4	1	.02
19	27	4	.29	12	4	.13	7.2	1	.02
20	26	4	.28	12	5	.16	7.0	1	.02
21	24	3	.19	13	6	.21	7.0	1	.02
22	23	3	.19	11	6	.18	7.2	1	.02
23	22	2	.12	11	6	.18	7.0	1	.02
24	21	2	.11	11	6	.18	7.0	1	.02
25	20	2	.11	9.1	7	.17	7.2	2	.04
26	20	2	.11	9.1	6	.15	8.2	3	.07
27	20	5	.27	9.1	4	.10	8.9	2	.05
28	20	3	.16	9.6	2	.05	9.1	2	.05
29	20	2	.11	10	1	.03	8.4	2	.05
30	18	2	.10	10	3	.08	7.7	3	.06
31	18	2	.10	9.9	6	.16	--	--	--
TOTAL	885	--	13.28	393.8	--	4.59	227.4	--	.93

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 63747.7
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 9099.54

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.

LOCATION.--Lat 36°37'52", long 121°40'17", in Nacional Grant, Monterey County, at gaging station at 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 (3.2 km) south of Salinas.

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

PERIOD OF RECORD.--Chemical analyses: Water years 1952-54 (partial-record station), October 1958 to September 1966, water years 1967-70, 1972 to current year (partial-record station). Published as sta 11152300 "near Chualar" in 1967.
Water temperatures: December 1966 to current year. Published as sta 11152300 "near Chualar" in 1967-69.
Sediment records: Water years 1950-51 (partial-record station), December 1966 to current year. Published as sta 11152300 "near Chualar" in 1967-69.
Turbidity: Water year 1973 (partial-record station).

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 4,810 mg/l Jan. 9; minimum daily, 5 mg/l Oct. 1-3, June 30, July 1.
Sediment discharge: Maximum daily, 100,000 tons (90,700 tonnes) Jan. 9; minimum daily, 0.05 ton (0.045 tonne) Aug. 7, 8.
Period of record:
Sediment concentrations: Maximum daily, 18,900 mg/l Feb. 25, 1969; minimum daily, 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.

REMARKS.--Selected chemical-quality analyses furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
DEC.												
12...	1115	196	--	--	--	--	--	.07	.01	.08	.26	.74
JAN.												
23...	1300	3370	--	--	137	112	--	.16	.00	.16	.04	.36
MAR.												
02...	1740	2840	--	--	--	--	--	.24	.01	.25	.26	1.1
11...	1415	1290	24	29	157	129	20	--	--	--	--	--
APR.												
16...	0940	432	--	--	238	195	--	1.2	.00	1.2	.18	.09
MAY												
13...	1315	48	--	--	--	--	--	2.9	.06	3.0	.35	.45
SEP.												
19...	1300	85	36	19	143	117	15	--	--	--	--	--

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC.											
12...	1.0	.52	.03	--	--	--	338	--	8.5	--	9.2
JAN.											
23...	.40	.33	.04	--	--	--	340	8.1	8.5	1.7	5.8
MAR.											
02...	1.4	.59	.18	--	--	--	217	--	11.5	--	16
11...	--	--	--	280	.38	49	350	8.1	11.0	2.0	--
APR.											
16...	.27	.20	.09	--	--	--	760	8.3	17.5	1.9	3.4
MAY											
13...	.80	.22	.18	--	--	--	1175	--	19.5	--	2.4
SEP.											
19...	--	--	--	227	.31	38	368	8.2	22.5	1.4	--

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)
DEC.												
12...	1115	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00
JAN.												
31...	1430	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00
MAR.												
02...	1740	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00
APR.												
16...	1300	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY												
13...	1315	.00	.0	.00	.00	.00	.03	.01	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC.											
12...	.00	.00	.00	--	.00	.0	--	--	.00	.00	.00
JAN.											
31...	.00	.00	.00	--	.00	.0	--	--	.00	.00	.00
MAR.											
02...	.00	.00	.00	--	.00	.0	--	--	.02	.00	.00
APR.											
16...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
MAY											
13...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (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)
DEC.								
12...	1115	10	9	1	--	<10	9	1
JAN.								
23...	1300	4	4	0	--	<10	9	1
MAR.								
02...	1740	25	22	3	--	<10	<7	3
11...	1415	--	--	--	100	--	--	--
APR.								
16...	0940	2	0	3	--	10	6	4
MAY								
13...	1315	1	0	1	--	20	20	0
SEP.								
19...	1300	--	--	--	100	--	--	--

DATE	TOTAL CHRO-MIUM (CR) (UG/L)	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 COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
DEC.									
12...	70	0	<10	8	2	60	47	13	<100
JAN.									
23...	10	0	<50	47	3	20	6	14	<100
MAR.									
02...	20	0	<50	<50	0	20	6	14	<100
11...	--	--	--	--	--	--	--	--	--
APR.									
16...	0	0	<50	<49	1	10	8	2	<100
MAY									
13...	0	0	<50	<50	0	10	1	9	<100
SEP.									
19...	--	--	--	--	--	--	--	--	--

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC.								
12...	92	8	.0	.0	.0	80	70	10
JAN.								
23...	90	10	--	.0	--	100	70	30
MAR.								
02...	<90	10	.1	.1	.0	180	160	20
11...	--	--	--	--	--	--	--	--
APR.								
16...	<93	7	.0	.0	.0	40	20	20
MAY								
13...	<94	6	.0	.0	.0	90	70	20
SEP.								
19...	--	--	--	--	--	--	--	--

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	13.0	---	15.0	16.5	---	24.5	---	---
2	---	---	12.0	9.0	12.0	11.5	15.0	---	---	---	---	---
3	22.0	16.0	---	---	---	11.0	16.0	13.0	14.5	23.0	---	25.0
4	---	---	---	7.0	14.0	13.0	16.0	---	15.0	---	---	25.0
5	---	---	8.5	7.0	---	13.0	16.0	---	---	25.0	22.5	18.0
6	23.0	15.0	13.0	---	11.0	12.0	15.0	14.0	26.5	---	---	26.0
7	---	---	---	8.0	---	---	---	---	---	---	---	---
8	22.0	---	---	9.0	10.0	12.0	16.0	21.5	---	21.5	20.0	---
9	---	16.0	---	8.0	12.0	12.0	--	---	---	---	18.0	17.0
10	---	---	13.0	9.0	---	12.0	15.5	17.0	17.0	23.0	---	---
11	---	---	---	9.0	14.0	15.0	14.0	---	16.5	---	---	---
12	---	15.0	8.5	11.0	---	15.0	17.0	---	15.0	23.5	---	---
13	---	---	---	11.0	12.0	15.0	17.0	19.5	---	---	18.5	23.5
14	---	---	10.0	12.0	---	15.0	---	---	15.0	---	22.0	---
15	---	---	---	13.0	12.0	16.0	17.0	12.5	---	22.0	26.5	---
16	20.0	16.0	---	13.0	---	15.0	17.5	---	---	---	26.5	17.5
17	---	---	---	13.0	---	---	16.0	11.0	25.0	23.0	---	---
18	---	---	10.0	14.0	11.0	17.0	---	---	---	---	---	---
19	19.0	---	---	14.0	---	---	---	---	16.0	23.5	14.5	23.0
20	---	10.0	11.0	---	14.0	17.0	---	23.0	---	---	---	17.0
21	---	---	---	12.0	---	14.0	---	---	18.0	---	---	---
22	---	---	---	11.0	---	16.0	---	14.0	---	23.0	27.0	---
23	20.0	---	10.0	8.5	14.0	---	13.5	23.5	21.0	---	21.5	17.5
24	---	11.0	---	13.0	---	15.0	12.5	---	---	22.5	---	19.5
25	---	---	---	11.0	14.0	---	---	---	---	---	---	---
26	---	---	11.0	12.0	---	15.0	14.0	---	14.5	24.0	18.0	---
27	19.0	12.0	---	---	13.0	---	---	---	---	---	---	---
28	---	---	13.0	11.0	---	14.0	---	18.0	---	21.5	---	---
29	---	---	---	11.0	---	16.0	14.0	13.5	---	---	---	---
30	16.0	12.0	---	10.0	---	15.0	---	---	---	---	20.0	16.5
31	---	---	11.0	11.5	---	---	---	15.0	---	22.0	---	---
MONTH	---	---	---	10.5	---	---	---	---	---	---	---	---

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	22	5	.30	56	17	2.6	91	30	7.4
2	23	5	.31	57	18	2.8	759	735	2030
3	27	5	.36	59	18	2.9	506	400	546
4	30	8	.65	59	18	2.9	196	240	127
5	32	17	1.5	58	18	2.8	99	330	89
6	33	20	1.8	56	18	2.7	79	115	25
7	40	17	1.8	54	18	2.6	67	108	20
8	48	13	1.7	52	18	2.5	58	102	16
9	59	13	2.1	49	18	2.4	51	97	13
10	69	13	2.4	47	18	2.3	47	88	11
11	77	13	2.7	46	18	2.2	96	93	24
12	83	14	3.1	45	17	2.1	201	130	71
13	88	14	3.3	45	14	1.7	284	180	138
14	89	14	3.4	45	12	1.5	342	265	245
15	90	14	3.4	46	10	1.2	402	305	331
16	95	14	3.6	47	10	1.3	442	310	370
17	98	15	4.0	51	10	1.4	479	292	378
18	99	16	4.3	56	10	1.5	501	165	223
19	96	28	7.3	217	295	279	506	147	201
20	101	22	6.0	144	399	164	338	135	123
21	104	20	5.6	60	235	38	209	230	130
22	108	19	5.5	50	165	22	146	228	90
23	104	18	5.1	45	100	12	103	215	60
24	78	18	3.8	48	95	12	82	175	39
25	71	17	3.3	150	170	69	69	142	26
26	65	17	3.0	278	175	131	59	125	20
27	64	16	2.8	191	50	26	136	767	341
28	62	16	2.7	124	37	12	99	680	182
29	59	16	2.5	94	34	8.6	56	320	48
30	58	15	2.3	82	32	7.1	48	150	19
31	58	16	2.5	---	---	---	40	130	14
MONTH	2130	---	93.12	2411	---	820.1	6591	---	5957.4

	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	40	155	17	795	900	1930	196	160	85
2	33	155	14	703	640	1210	1950	905	6440
3	68	585	204	637	730	1260	2330	1170	7490
4	421	2880	3310	581	1000	1570	2200	1430	8490
5	328	2250	1990	530	800	1140	2010	1670	9060
6	398	1650	1770	481	440	571	1740	1250	5870
7	2290	1710	11000	450	550	668	1510	1050	4280
8	5850	3570	60800	424	930	1060	1420	1430	5570
9	7450	4810	100000	398	900	967	1430	1330	5150
10	6190	2830	47700	375	600	608	1520	1820	7530
11	5410	1600	23400	353	360	343	1350	1670	6090
12	4950	1180	15800	335	450	407	1170	1050	3320
13	4790	1200	15500	317	640	548	1050	1220	3460
14	4580	1420	17600	301	650	528	956	930	2408
15	4360	2180	25700	284	630	483	880	880	2090
16	4130	1940	21600	272	530	389	804	1370	2970
17	4160	1090	12200	254	430	295	716	1070	2070
18	4370	1670	19700	242	340	222	644	700	1220
19	4160	1790	20100	242	340	222	585	550	869
20	4020	1520	16500	225	360	219	533	460	662
21	3790	1400	14300	212	360	206	471	640	814
22	3520	1500	14300	204	340	187	413	580	647
23	3370	980	8920	194	320	168	375	550	557
24	3200	980	8470	196	350	185	342	590	545
25	2660	1040	7470	301	836	683	321	560	485
26	1930	1100	5730	257	500	347	317	510	437
27	1570	950	4030	220	210	125	311	480	403
28	1340	680	2460	199	170	91	556	518	769
29	1180	870	2770	---	---	---	1100	671	2300
30	1020	850	2340	---	---	---	1060	627	1820
31	890	530	1270	---	---	---	1460	1120	4680
MONTH	92468	---	486965	9982	---	16632	31720	---	98573

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	1480	1330	5340	124	59	20	5.3	9	.13
2	1950	1940	10300	111	49	15	5.4	9	.13
3	2120	1150	6660	101	45	12	5.8	9	.14
4	1870	1220	6160	92	54	13	5.6	8	.12
5	1660	1250	5600	88	50	12	4.5	7	.09
6	1410	1060	4040	82	45	10	11	18	.53
7	1230	880	2920	77	40	8.3	20	32	1.7
8	1090	690	2030	71	40	7.7	20	29	1.6
9	1000	550	1490	75	45	9.1	22	23	1.4
10	892	410	987	57	30	4.6	23	14	.87
11	794	320	686	54	40	5.8	21	9	.51
12	708	700	1340	51	45	6.2	19	8	.41
13	620	350	586	47	40	5.1	16	7	.30
14	543	240	352	45	45	5.5	13	6	.21
15	480	350	454	42	50	5.7	10	7	.19
16	432	440	513	39	41	4.3	7.7	10	.21
17	389	400	420	35	34	3.2	6.5	15	.26
18	351	360	341	32	24	2.1	10	13	.35
19	306	330	273	30	17	1.4	12	10	.32
20	275	270	200	28	13	.98	9.4	10	.25
21	245	260	172	26	13	.91	6.6	10	.18
22	222	250	150	24	14	.91	6.1	12	.20
23	211	110	63	21	12	.68	6.0	13	.21
24	196	170	90	18	12	.58	5.9	13	.21
25	196	130	69	16	12	.52	5.6	13	.20
26	188	100	51	16	12	.52	5.4	12	.17
27	170	97	45	15	12	.49	5.3	10	.14
28	158	89	38	10	8	.22	4.7	8	.10
29	147	83	33	6.2	9	.15	4.4	7	.08
30	136	70	26	5.4	9	.13	4.7	5	.06
31	---	---	---	4.7	9	.11	---	---	---
MONTH	21469	---	51429	1443.3	---	157.20	301.9	---	11.27

	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	6.0	5	.08	1.4	20	.08	33	31	2.8
2	5.1	11	.15	1.4	20	.08	36	33	3.2
3	4.3	23	.27	1.6	20	.09	40	38	4.1
4	3.9	26	.27	1.6	19	.08	47	42	5.3
5	4.5	26	.32	1.4	18	.07	52	65	9.1
6	4.8	27	.35	1.4	16	.06	52	50	7.0
7	3.6	28	.27	1.4	14	.05	49	57	7.5
8	3.2	29	.25	1.4	12	.05	50	52	7.0
9	4.2	24	.27	6.7	10	.18	52	53	7.4
10	3.9	18	.19	12	9	.29	58	51	8.0
11	2.8	17	.13	14	10	.38	62	50	8.4
12	2.6	16	.11	15	11	.45	62	48	8.0
13	2.6	15	.11	17	15	.69	61	47	7.7
14	1.9	14	.07	20	26	1.4	61	53	8.7
15	1.9	13	.07	21	24	1.4	63	73	12
16	1.9	14	.07	16	12	.52	66	93	17
17	2.2	15	.09	20	10	.54	75	98	20
18	2.3	15	.09	21	19	1.1	81	75	16
19	2.3	15	.09	23	27	1.7	84	60	14
20	2.3	16	.10	26	34	2.4	85	120	28
21	1.9	18	.09	29	39	3.1	90	115	28
22	1.6	19	.08	30	42	3.4	94	95	24
23	1.6	17	.07	29	40	3.1	98	80	21
24	1.6	14	.06	27	36	2.6	109	65	19
25	1.6	13	.06	24	33	2.1	118	59	19
26	1.4	16	.06	25	31	2.1	120	60	19
27	1.4	16	.06	28	30	2.3	122	62	20
28	1.6	15	.06	30	29	2.3	126	68	23
29	1.6	16	.07	30	29	2.3	134	77	28
30	1.4	17	.06	31	29	2.4	138	85	32
31	1.4	19	.07	32	29	2.5	---	---	---
MONTH	83.4	---	4.09	538.3	---	39.81	2318	---	434.2
YEAR	171455.9		661116.2						

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	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
DEC.											
05...	1135	8.5	--	99	637	170	56	72	75	77	77
14...	1230	10.0	--	349	265	250	--	--	--	--	--
28...	1230	13.0	--	92	695	173	49	65	68	72	73
JAN.											
05...	1330	7.0	--	321	2100	1820	--	--	--	--	--
07...	1340	8.0	--	2700	1670	12200	--	--	--	--	--
08...	1120	9.0	--	5620	3210	48700	49	57	70	75	78
09...	0940	8.0	--	8120	5160	113000	53	65	75	82	85
09...	1330	8.0	--	6950	4750	89100	48	58	70	76	79
10...	1530	9.0	--	6180	2400	40000	--	--	--	--	--
14...	1230	12.0	--	4580	1410	17400	10	14	17	20	22
17...	1345	13.0	--	4150	1020	11400	--	--	--	--	--
22...	1430	11.0	--	3500	1570	14800	--	--	--	--	--
23...	1445	8.5	--	3280	847	7500	10	13	16	18	20
25...	1400	11.0	--	2550	1070	7370	--	--	--	--	--
MAR.											
02...	1410	11.5	--	2490	1260	8470	12	17	21	26	31
04...	1130	13.0	--	2210	1420	8470	25	33	39	44	45
10...	1335	12.0	--	1600	2170	9370	28	38	47	55	58
21...	1030	14.0	--	471	667	848	6	7	9	10	11
APR.											
02...	1400	15.0	--	1730	1790	8360	26	33	39	47	57
04...	1400	16.0	--	1910	1660	8560	31	41	51	60	64
06...	1030	15.0	--	1410	1220	4650	16	19	23	26	28
11...	0950	14.0	--	790	313	668	14	17	20	24	27
MAY											
01...	1130	16.5	124	--	44	15	--	--	--	--	--
10...	1115	17.0	--	58	30	4.7	--	--	--	--	--
28...	1245	18.0	--	7.5	7	.14	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC.										
05...	77	--	81	--	94	--	100	--	--	--
14...	--	61	--	63	--	80	--	99	--	100
28...	73	--	75	--	99	--	100	--	--	--
JAN.										
05...	90	--	92	--	100	--	--	--	--	--
07...	77	--	79	--	93	--	100	--	--	--
08...	82	--	85	--	95	--	100	--	--	--
09...	87	--	90	--	100	--	--	--	--	--
09...	81	--	85	--	96	--	100	--	--	--
10...	68	--	75	--	99	--	100	--	--	--
14...	25	--	38	--	98	--	100	--	--	--
17...	22	--	30	--	90	--	100	--	--	--
22...	13	--	20	--	95	--	100	--	--	--
23...	--	21	--	28	--	82	--	99	--	100
25...	17	--	21	--	90	--	100	--	--	--
MAR.										
02...	36	--	45	--	75	--	99	--	100	--
04...	47	--	54	--	88	--	100	--	--	--
10...	60	--	64	--	97	--	100	--	--	--
21...	12	--	14	--	60	--	99	--	100	--
APR.										
02...	67	--	72	--	88	--	99	--	100	--
04...	67	--	74	--	98	--	100	--	--	--
06...	30	--	39	--	96	--	100	--	--	--
11...	--	28	--	33	--	77	--	99	--	100
MAY										
01...	40	--	55	--	93	--	100	--	--	--
10...	--	60	--	72	--	95	--	99	--	100
28...	--	75	--	80	--	92	--	100	--	--

11153470 LLAGAS CREEK ABOVE CHESBRO RESERVOIR, NEAR MORGAN HILL, CALIF.

LOCATION.--Lat 37°08'54", long 121°46'02", in Pueblo Lands of San Jose Grant, Santa Clara County, at gaging station 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).

PERIOD OF RECORD.--Water temperatures: October 1971 to current year.
Sediment records: October 1971 to current year.

EXTREMES.--Current year:
Water temperatures: Minimum, 6.0°C Jan. 9.
Sediment concentrations: Maximum daily, 1,400 mg/l Mar. 1; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 1,860 tons (1,690 tonnes) Mar. 1; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Water temperatures: Minimum (1972 to current year), 2.0°C Dec. 11, 14, 1972, Jan. 7, 1973.
Sediment concentrations: Maximum daily, 1,400 mg/l Mar. 1, 1974; minimum daily, 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.

REMARKS.--No flow Oct. 1-6, Oct. 12, 13, 15-20, Aug. 23, 25-27, Sept. 4-30.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	---	---	11.0	10.0	12.0	13.0	---	14.0	---	---
2		---	---	7.0	---	11.0	11.0	---	13.0	---	---	---
3		---	10.0	10.0	10.0	11.0	12.0	13.0	13.0	14.0	---	19.0
4		---	---	7.0	9.0	10.0	11.0	---	---	---	---	---
5		10.0	---	8.0	---	12.0	---	13.0	---	14.0	22.5	---
6		---	---	7.0	11.0	11.0	12.0	---	13.0	---	---	---
7		---	---	7.0	---	11.0	10.0	13.0	---	14.0	---	---
8		---	---	7.0	---	10.0	10.0	---	13.0	---	---	---
9		---	---	6.0	10.0	10.0	11.0	13.0	---	14.0	---	---
10		---	---	8.0	---	10.0	11.0	---	14.0	---	---	---
11		---	---	7.0	---	11.0	11.0	13.0	---	14.0	---	---
12		---	---	8.0	10.0	11.0	10.0	---	14.0	---	---	---
13		---	---	9.0	---	10.0	---	13.0	---	14.0	---	---
14		---	---	8.0	---	11.0	---	---	13.0	---	---	---
15		---	---	9.0	---	11.0	11.0	13.0	---	---	---	---
16		---	---	8.0	12.0	10.0	12.0	---	13.0	---	---	---
17		---	---	11.0	---	10.0	12.0	12.0	---	---	---	---
18		---	---	11.0	---	10.0	13.0	---	14.0	---	---	---
19		---	---	10.0	12.0	---	12.0	12.0	---	---	---	---
20		---	---	11.0	---	11.0	12.0	---	14.0	---	---	---
21		---	---	10.0	---	---	12.0	13.0	---	---	---	---
22		---	---	10.0	11.0	11.0	12.0	---	14.0	---	---	---
23		---	---	10.0	---	---	---	13.0	---	---	---	---
24		---	---	11.0	---	11.0	12.0	---	14.0	---	---	---
25		---	---	11.0	12.0	---	12.0	13.0	---	---	---	---
26		---	---	10.0	---	11.0	---	---	14.0	---	---	---
27		---	11.0	10.0	---	11.0	12.0	13.0	17.0	17.0	---	---
28		---	---	11.0	13.0	10.0	---	---	14.0	---	---	---
29		---	---	11.0	---	11.0	13.0	13.0	---	---	---	---
30		---	---	---	---	11.0	---	---	14.0	---	---	---
31		---	---	11.0	---	11.0	---	13.0	---	---	---	---
MONTH		---	---	9.0	---	10.5	---	---	---	---	---	---

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

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.00	0	.00	.27	4	.00	172	336	300
2	.00	0	.00	.33	4	.00	35	10	.95
3	.00	0	.00	.33	4	.00	21	5	.28
4	.00	0	.00	.33	4	.00	16	3	.13
5	.00	0	.00	.36	4	.00	12	2	.06
6	.00	0	.00	1.8	3	.00	9.9	2	.05
7	.15	0	.00	.98	1	.00	8.1	1	.02
8	.54	5	.01	.63	1	.00	7.0	1	.02
9	.46	4	.00	.54	1	.00	6.5	1	.02
10	.14	3	.00	.54	1	.00	5.6	1	.02
11	.01	1	.00	1.3	3	.02	6.0	1	.02
12	.00	0	.00	14	56	2.5	5.6	1	.02
13	.00	0	.00	4.8	17	.20	6.5	4	.07
14	.02	3	.00	6.0	5	.08	6.0	1	.02
15	.00	0	.00	3.0	3	.02	5.2	2	.03
16	.00	0	.00	6.0	9	.16	5.2	2	.03
17	.00	0	.00	46	51	13	4.8	2	.03
18	.00	0	.00	21	25	1.5	5.2	3	.04
19	.00	0	.00	6.5	1	.02	4.8	2	.03
20	.00	0	.00	4.0	1	.01	4.4	1	.01
21	.05	5	.00	3.0	1	.01	6.5	6	.11
22	.63	5	.01	2.5	1	.01	8.7	4	.09
23	.98	5	.01	2.2	2	.01	6.5	1	.02
24	.39	4	.00	2.0	2	.01	6.5	1	.02
25	.27	4	.00	1.8	1	.00	6.0	1	.02
26	.22	4	.00	1.6	1	.00	6.5	1	.02
27	.18	4	.00	1.4	3	.01	14	11	.39
28	.22	4	.00	1.3	4	.01	14	4	.15
29	.18	4	.00	1.3	4	.01	12	4	.13
30	.22	4	.00	69	350	215	11	2	.06
31	.22	4	.00	---	---	---	11	4	.12
MONTH	4.88	---	.03	204.81	---	232.58	449.5	---	302.98

	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	12	3	.10	9.3	4	.10	465	1400	1860
2	9.9	4	.11	8.7	4	.09	246	610	430
3	59	70	19	8.1	6	.13	147	240	100
4	69	32	7.0	8.7	7	.16	92	80	20
5	43	8	.93	8.7	8	.19	66	27	4.8
6	58	27	4.5	8.1	9	.20	50	28	3.8
7	56	20	3.2	7.5	11	.22	46	23	2.9
8	47	11	1.4	7.5	13	.26	39	25	2.6
9	40	8	.86	7.0	16	.30	33	22	2.0
10	33	5	.45	7.0	17	.32	31	14	1.2
11	30	4	.32	6.5	18	.32	28	16	1.2
12	27	4	.29	7.0	16	.30	28	20	1.5
13	25	4	.27	6.5	14	.25	25	12	.81
14	22	5	.30	6.0	13	.21	22	11	.65
15	19	5	.26	6.0	12	.19	21	10	.57
16	35	18	2.2	5.6	12	.18	19	13	.67
17	68	56	11	5.6	12	.18	17	17	.78
18	47	9	1.1	5.2	11	.15	16	14	.60
19	39	6	.63	7.0	19	.38	15	12	.49
20	33	5	.45	5.6	14	.21	14	17	.64
21	30	4	.32	5.2	13	.18	14	19	.72
22	26	3	.21	5.2	13	.18	14	17	.64
23	22	4	.24	4.8	13	.17	13	15	.53
24	19	7	.36	4.8	15	.19	12	12	.39
25	17	8	.37	4.4	23	.27	12	8	.26
26	15	6	.24	4.4	24	.29	12	9	.34
27	14	5	.19	4.4	18	.21	19	19	1.0
28	13	6	.21	24	16	2.0	61	54	11
29	11	7	.21	---	---	---	33	21	1.9
30	11	6	.18	---	---	---	88	86	22
31	9.9	5	.13	---	---	---	56	28	4.2
MONTH	959.8	---	57.03	198.8	---	7.83	1754	---	2478.19

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

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	68	34	5.7	7.5	6	.12	3.7	6	.06
2	58	23	3.6	8.1	6	.13	3.7	3	.03
3	49	9	1.2	7.5	4	.08	3.7	2	.02
4	42	10	1.1	7.5	7	.14	3.3	5	.04
5	36	13	1.3	7.0	9	.17	3.3	8	.07
6	32	11	.95	7.0	11	.21	3.0	9	.07
7	30	8	.65	6.5	11	.19	2.8	4	.03
8	26	10	.70	7.0	9	.17	2.8	2	.02
9	26	16	1.1	7.5	7	.14	2.5	6	.04
10	20	7	.38	7.0	5	.09	2.5	13	.09
11	15	6	.24	6.5	3	.05	2.5	14	.09
12	14	5	.19	6.5	2	.04	2.5	11	.07
13	17	10	.46	6.5	2	.04	2.8	6	.05
14	16	10	.43	6.0	2	.03	2.8	2	.02
15	15	7	.28	6.0	2	.03	2.8	4	.03
16	14	11	.42	6.0	2	.03	2.8	6	.05
17	14	6	.23	6.0	4	.06	2.5	7	.05
18	14	7	.26	6.0	6	.10	2.2	10	.06
19	14	8	.30	6.0	11	.18	2.8	13	.10
20	14	5	.19	5.6	16	.24	2.5	15	.10
21	12	7	.23	5.6	20	.30	2.2	8	.05
22	11	6	.18	5.2	22	.31	2.0	2	.01
23	11	5	.15	5.2	19	.27	2.0	3	.02
24	14	20	.76	4.8	12	.16	2.0	4	.02
25	9.9	9	.24	4.4	8	.10	2.0	4	.02
26	9.3	9	.23	4.0	9	.10	1.8	4	.02
27	8.7	4	.09	4.4	16	.19	1.8	9	.04
28	8.1	4	.09	4.4	26	.31	1.5	38	.15
29	7.5	6	.12	4.4	31	.37	1.3	38	.13
30	7.5	6	.12	4.0	19		1.3	28	.10
31	---	---	---	3.7	10		---	---	---
MONTH	633.0	---	21.89	183.8	---	4.66	75.4	---	1.65

	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	1.4	14	.05	.21	2	.00	.04	1	.00
2	1.2	9	.03	.16	2	.00	.04	1	.00
3	1.1	12	.04	.18	1	.00	.04	1	.00
4	1.0	13	.04	.13	1	.00	.00	0	.00
5	.97	11	.03	.12	1	.00	.00	0	.00
6	1.0	14	.04	.11	1	.00	.00	0	.00
7	1.0	26	.07	.08	1	.00	.00	0	.00
8	1.1	28	.08	.10	1	.00	.00	0	.00
9	1.5	24	.10	.09	1	.00	.00	0	.00
10	1.3	20	.07	.10	1	.00	.00	0	.00
11	1.1	17	.05	.11	1	.00	.00	0	.00
12	.84	13	.03	.10	1	.00	.00	0	.00
13	.78	10	.02	.08	1	.00	.00	0	.00
14	.71	10	.02	.08	1	.00	.00	0	.00
15	.66	19	.03	.08	1	.00	.00	0	.00
16	.66	9	.02	.08	1	.00	.00	0	.00
17	.67	8	.01	.08	1	.00	.00	0	.00
18	.64	8	.01	.06	1	.00	.00	0	.00
19	.57	7	.01	.06	1	.00	.00	0	.00
20	.48	7	.01	.04	1	.00	.00	0	.00
21	.44	6	.01	.03	1	.00	.00	0	.00
22	.32	6	.01	.01	1	.00	.00	0	.00
23	.29	5	.00	.00	0	.00	.00	0	.00
24	.22	5	.00	.03	1	.00	.00	0	.00
25	.20	5	.00	.00	0	.00	.00	0	.00
26	.17	4	.00	.00	0	.00	.00	0	.00
27	.21	4	.00	.00	0	.00	.00	0	.00
28	.23	3	.00	.02	1	.00	.00	0	.00
29	.27	3	.00	.03	1	.00	.00	0	.00
30	.26	3	.00	.05	1	.00	.00	0	.00
31	.26	2	.00	.05	1	.00	---	---	---
MONTH	21.55	---	.78	2.27	---	.00	[illegible]	---	[illegible]
YEAR	4487.93		3107.62						

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
MAR.								
01...	0830	10.0	524	1370	1940	34	45	51
02...	0815	11.0	274	575	425	--	--	--
28...	1415	13.0	48	16	2.1	--	--	--

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
MAR.							
01...	61	70	77	83	92	98	100
02...	--	--	52	62	80	96	100
28...	--	--	92	95	100	--	--

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	TOTAL SEDIMENT (MG/L)	TOTAL SEDIMENT DISCHARGE (T/DAY)	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	TOTAL SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAR.											
05...	1455	12.0	68	17	3.1	84	90	96	100	--	--
28...	0800	10.0	66	50	8.9	89	91	94	97	100	--
30...	0830	11.0	99	89	24	58	61	71	80	100	--
APR.											
01...	1410	12.0	61	38	6.3	--	52	55	61	68	100

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.

LOCATION.--Lat 37°05'34", long 121°43'02", in Las Uvas Grant, Santa Clara County, at gaging station 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.--Water temperatures: October 1965 to current year.
Sediment records: Water year 1965 (partial-record station), October 1965 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 975 mg/l Mar. 1; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 4,610 tons (4,180 tonnes) Mar. 1; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 2,400 mg/l Jan. 21, 1967; minimum daily, 0 mg/l on several days in 1970 and 1971.
Sediment discharge: Maximum daily, 22,200 tons (20,100 tonnes) Jan. 21, 1967; minimum daily, 0 tons (0 tonnes) on many days in 1965-74.

REMARKS.--Zero bedload discharge observed at flows less than 44 ft^3/s (1.25 m^3/s).

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	11.0	---	---	11.0	11.5	13.0	---	22.5	---	---
2	13.5	---	---	6.0	---	---	---	---	---	18.0	---	---
3	21.0	---	9.0	7.0	---	---	12.0	15.0	---	---	---	17.5
4	---	---	10.0	7.0	9.0	11.0	---	---	---	---	---	27.0
5	21.0	---	---	8.0	10.0	9.5	10.0	---	22.5	---	22.5	---
6	---	15.0	---	---	---	---	---	17.0	18.0	19.0	22.0	---
7	---	---	10.0	8.0	---	---	---	---	---	---	---	---
8	16.0	---	---	---	8.0	11.0	10.0	---	---	---	---	25.0
9	---	---	---	8.0	---	---	---	---	23.0	---	21.0	---
10	---	---	---	---	---	---	---	17.0	---	15.0	---	---
11	---	---	10.0	9.0	8.0	---	---	---	---	---	---	---
12	17.0	---	---	---	---	11.0	15.0	---	18.0	---	26.0	25.0
13	---	---	10.0	---	---	---	---	---	---	18.0	---	---
14	---	---	---	---	7.0	---	---	---	---	---	---	---
15	---	---	---	12.0	---	---	---	0	---	---	24.0	---
16	15.0	---	10.0	12.0	---	11.0	---	---	22.0	---	---	18.0
17	---	13.0	---	12.0	---	---	15.0	---	---	19.0	---	---
18	---	---	---	---	---	---	---	12.0	---	---	23.0	---
19	---	10.0	---	13.0	9.0	---	---	---	---	---	---	---
20	17.0	---	---	---	---	12.0	---	---	19.0	19.0	---	19.0
21	---	---	9.0	---	---	---	---	---	---	---	---	---
22	---	---	---	9.0	10.0	---	15.0	13.0	---	---	27.0	---
23	13.0	10.0	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	11.0	11.0	---	23.0	20.0	---	24.0
25	---	---	---	---	10.0	---	---	---	---	---	---	---
26	---	9.0	10.0	10.0	---	---	---	---	---	---	22.0	---
27	18.0	---	10.5	---	---	11.0	---	18.0	---	22.0	---	---
28	---	---	---	---	11.0	12.0	---	---	19.0	---	---	---
29	---	10.0	13.0	---	---	12.0	---	---	---	---	---	---
30	---	---	---	---	---	---	17.0	---	---	---	26.0	22.0
31	19.0	---	---	10.0	---	10.0	---	16.0	---	18.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.38	3	.00	1.2	2	.01	552	277	686
2	.43	3	.00	1.2	2	.01	86	40	9.3
3	.54	3	.00	1.2	2	.01	46	8	.99
4	.21	3	.00	1.6	2	.01	32	4	.35
5	.66	2	.00	1.6	2	.01	25	4	.27
6	.66	2	.00	15	44	2.0	21	4	.23
7	2.0	12	.08	6.3	19	.35	18	4	.19
8	2.4	16	.10	3.8	7	.07	16	4	.17
9	1.6	7	.03	2.9	5	.04	14	4	.15
10	1.4	3	.01	2.9	5	.04	13	4	.14
11	1.2	2	.01	8.2	31	1.9	15	5	.20
12	1.1	1	.00	103	370	152	13	4	.14
13	1.1	1	.00	39	69	13	20	14	.85
14	1.1	1	.00	37	27	4.0	18	4	.19
15	.86	2	.00	13	10	.35	15	4	.16
16	.94	2	.01	42	21	3.0	13	4	.14
17	.94	2	.01	283	352	554	13	4	.14
18	.94	2	.01	87	40	15	12	3	.10
19	1.0	2	.01	29	3	.23	11	3	.09
20	1.0	2	.01	19	2	.10	11	3	.09
21	1.4	2	.01	15	2	.08	19	9	.61
22	3.2	13	.20	13	1	.04	25	7	.47
23	6.5	37	.75	11	1	.03	17	5	.23
24	2.6	7	.05	9.9	1	.03	15	4	.16
25	1.9	5	.03	8.9	1	.02	14	3	.11
26	1.8	5	.02	8.4	1	.02	15	2	.08
27	1.6	4	.02	7.8	1	.02	72	20	4.3
28	1.5	3	.01	7.1	1	.02	58	7	1.1
29	1.2	3	.01	6.9	1	.02	42	6	.68
30	1.1	2	.01	217	193	295	35	6	.57
31	1.1	2	.01	---	---	---	33	5	.45
MONTH	44.36	---	1.40	1002.9	---	1041.41	1309	---	708.65

	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	4	.36	27	1	.07	1630	975	4610
2	27	4	.29	25	1	.07	559	294	496
3	138	48	46	24	3	.19	400	88	106
4	158	31	18	23	5	.31	212	40	23
5	87	14	3.3	22	9	.53	149	21	8.4
6	127	21	7.6	21	9	.51	111	12	3.6
7	138	20	8.3	20	8	.43	100	11	3.0
8	110	5	1.5	19	8	.41	81	12	2.6
9	79	2	.43	19	7	.36	66	11	2.0
10	62	1	.17	18	6	.29	57	10	1.5
11	53	1	.14	17	4	.18	52	8	1.1
12	53	1	.14	18	4	.19	61	8	1.3
13	46	1	.12	17	4	.18	51	4	.55
14	41	1	.11	16	4	.17	46	3	.37
15	37	1	.10	16	4	.17	42	3	.34
16	142	104	77	15	3	.12	39	2	.21
17	339	114	127	15	3	.12	37	2	.20
18	152	20	8.2	14	3	.11	35	2	.19
19	118	12	3.8	22	18	1.3	32	2	.17
20	93	9	2.3	17	11	.50	30	2	.16
21	75	6	1.2	15	11	.45	28	2	.15
22	61	4	.66	15	11	.45	27	2	.15
23	53	3	.43	14	10	.38	26	2	.14
24	47	2	.25	14	8	.30	25	2	.14
25	43	1	.12	13	6	.21	25	2	.14
26	39	1	.11	13	5	.18	27	4	.39
27	35	1	.09	13	4	.14	61	33	6.4
28	33	1	.09	110	98	169	299	139	155
29	31	1	.08	---	---	---	121	22	7.2
30	29	1	.08	---	---	---	423	159	226
31	28	1	.08	---	---	---	189	33	17
MONTH	2507	---	308.05	592	---	177.32	5041	---	5673.40

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	339	65	53	20	2	.11	7.5	2	.04
2	227	36	22	20	3	.16	8.2	2	.04
3	162	20	8.7	19	4	.21	7.5	3	.06
4	121	14	4.6	19	3	.15	7.3	4	.08
5	99	10	2.7	19	3	.15	6.7	5	.09
6	83	8	1.8	18	2	.10	6.7	2	.04
7	71	6	1.2	17	2	.09	6.3	2	.03
8	63	4	.68	16	2	.09	6.7	2	.04
9	61	3	.49	15	2	.08	6.3	2	.03
10	53	3	.43	15	2	.08	6.5	2	.04
11	47	2	.25	15	2	.08	5.9	2	.03
12	44	2	.24	14	2	.08	5.7	3	.05
13	40	2	.22	14	2	.08	5.5	2	.03
14	37	2	.20	13	1	.04	5.5	2	.03
15	35	2	.19	13	1	.04	5.7	2	.03
16	33	2	.18	13	2	.07	6.1	2	.03
17	31	2	.17	13	2	.07	5.7	2	.03
18	31	2	.17	13	2	.07	6.3	2	.03
19	29	2	.16	13	2	.07	6.9	2	.04
20	28	2	.15	12	2	.06	6.3	2	.03
21	26	2	.14	11	2	.06	5.5	2	.03
22	25	6	.41	11	2	.06	5.1	3	.04
23	28	5	.39	11	2	.06	5.1	4	.06
24	42	13	1.6	10	2	.05	5.0	4	.05
25	29	5	.39	9.9	2	.05	4.4	3	.04
26	27	3	.22	9.7	2	.05	4.4	3	.04
27	25	2	.14	9.2	2	.05	4.8	2	.03
28	24	2	.13	8.9	2	.05	4.6	2	.02
29	22	2	.12	8.9	2	.05	4.4	2	.02
30	21	4	.23	8.7	2	.05	4.4	3	.04
31	---	---	---	8.0	2	.04	---	---	---
MONTH	1903	---	101.30	417.3	---	2.45	177.0	---	1.19

	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	4.1	3	.03	1.8	2	.01	1.2	2	.01
2	3.8	2	.02	1.9	2	.01	1.3	2	.01
3	3.2	2	.02	1.5	3	.01	.86	1	.00
4	3.4	2	.02	2.0	3	.02	1.1	4	.01
5	2.9	2	.02	2.0	3	.02	.60	3	.00
6	3.1	2	.02	1.5	3	.01	.86	3	.01
7	3.5	2	.02	1.6	3	.01	.79	3	.01
8	3.4	2	.02	1.2	3	.01	.79	3	.01
9	7.1	2	.04	1.6	3	.01	.94	3	.01
10	4.8	1	.01	1.6	3	.01	.54	3	.00
11	3.8	1	.01	1.4	2	.01	.94	3	.01
12	3.6	2	.02	1.3	2	.01	.66	3	.01
13	3.5	2	.02	1.1	2	.01	1.0	4	.01
14	3.5	2	.02	1.4	2	.01	.48	4	.01
15	3.2	2	.02	1.2	3	.01	.86	5	.01
16	3.4	2	.02	1.6	3	.01	1.0	5	.01
17	3.4	3	.03	1.2	3	.01	.05	2	.00
18	2.7	3	.02	1.2	3	.01	.66	3	.01
19	2.3	3	.02	1.4	3	.01	.21	2	.00
20	2.7	3	.02	.86	2	.00	.72	4	.01
21	2.6	3	.02	1.3	2	.01	.60	3	.00
22	2.1	2	.01	.79	2	.00	.66	3	.01
23	2.4	2	.01	1.3	2	.01	.86	2	.00
24	2.7	2	.01	1.1	2	.01	.66	2	.00
25	2.4	2	.01	1.1	2	.01	.60	2	.00
26	2.4	2	.01	1.1	2	.01	.33	2	.00
27	2.2	2	.01	.86	2	.00	.79	2	.00
28	2.2	2	.01	1.1	2	.01	.72	3	.01
29	2.4	2	.01	1.2	2	.01	.86	4	.01
30	2.2	2	.01	1.3	2	.01	.86	5	.01
31	2.2	2	.01	.54	2	.00	---	---	---
MONTH	97.2	---	.54	41.05	---	.29	22.50	---	.19
YEAR	13154.31		8016.19						

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	44.36	1.40	0	1
NOVEMBER ...	1002.90	1041.41	14	1060
DECEMBER ...	1309.00	708.65	79	788
JANUARY 1974	2507.00	308.05	23	331
FEBRUARY ...	592.00	177.32	0	177
MARCH	5041.00	5673.40	926	6600
APRIL	1903.00	101.30	25	126
MAY	417.30	2.45	0	2
JUNE	177.00	1.19	0	1
JULY	97.20	0.54	0	1
AUGUST	41.05	0.29	0	0
SEPTEMBER ..	22.50	0.19	0	0
TOTAL	13154.31	8016.19	1067	9087

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
DEC.										
01...	1015	11.0	393	113	120	89	100	--	--	--
JAN.										
07...	1055	8.0	148	24	9.6	70	77	88	100	--
MAR.										
05...	1230	9.5	150	21	8.5	80	87	94	98	100
APR.										
01...	1210	11.5	286	85	66	68	77	88	97	100

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	STREAM WIDTH (FT)	SEDI-MENT BEDLOAD DIS-CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
DEC.							
03...	1300	9.0	--	44	19	.00	--
27...	1330	10.5	19	70	20	.39	1
JAN.							
02...	1145	6.0	--	28	19	.00	--
MAR.							
29...	1215	12.0	12	225	40	105	3
MAY							
01...	1240	13.0	--	21	18	.00	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
DEC.							
03...	--	--	--	--	--	--	--
27...	12	42	76	95	100	--	--
JAN.							
02...	--	--	--	--	--	--	--
MAR.							
29...	6	14	39	58	74	92	100
MAY							
01...	--	--	--	--	--	--	--

11159000 PAJARO RIVER AT CHITTENDEN, CALIF.

LOCATION.--Lat 36°54'01", long 121°35'48", in Salsipuedes Grant, Santa Cruz County, at gaging station at 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).

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1966, water years 1967-69 (partial-record station), November 1969 to September 1971, water years 1972 to current year (partial-record station).

REMARKS.--Records furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED SODIUM (NA) (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)	TOTAL NITRATE (N) (MG/L)
MAR.											
12...	0930	--	356	42	39	212	0	174	--	32	2.2
JULY											
10...	1300	--	16	67	173	426	11	368	267	136	2.5
SEP.											
19...	1045	8.9	--	74	155	526	0	431	139	137	2.0

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
MAR.										
12...	366	.50	222	48	440	7.6	14.5	10.2	8.5	200
JULY										
10...	976	1.33	463	95	1500	8.4	23.0	10.4	2.9	900
SEP.										
19...	844	1.15	436	5	1200	8.1	21.0	7.6	6.7	700

11160000 SOQUEL CREEK AT SOQUEL, CALIF.

LOCATION.--Lat 36°59'29", long 121°57'17", in NE¼ sec.10, T.11 S., R.1 W., Santa Cruz County, temperature recorder at gaging station 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).
PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1965, water year 1966 (partial-record station).
Water temperatures: January 1966 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 24.0°C Aug. 2.
Period of record:
Water temperatures: Maximum (1967-69, 1970 to current year), 30.5°C Aug. 29, 1968; minimum (1968-73), 3.0°C Jan. 5, 1970, Dec. 11, 12, 14, 1972, Jan. 7, 1973.
REMARKS.--Recorder malfunction Dec. 9 to Jan. 3, Jan. 7-18, June 21, 22; recorder stopped Apr. 20 to May 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.

LOCATION.--Lat 37°02'40", long 122°04'17", in Zayante Grant, Santa Cruz County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: January to December 1906, water years 1952-53 (partial-record station), October 1953 to September 1966, water years 1967, 1969-70, 1973 (partial-record station), November 1973 to current year.
Water temperatures: May 1966 to current year.
Sediment records: October 1972 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 21.5°C July 25, Aug. 6; minimum, 5.0°C Jan. 3.
Sediment concentrations: Maximum daily, 2,130 mg/l Dec. 1; minimum daily, 1 mg/l Aug. 18, 19, Sept. 15, 16.
Sediment discharge: Maximum daily, 15,300 tons (13,900 tonnes) Mar. 1; minimum daily, 0.06 ton (0.05 tonne) Sept. 15, 16.
Period of record;
Water temperatures: Maximum (1966-67, 1968-70, 1971 to current year), 25.5°C July 14, 1972; minimum (1966-70, 1971 to current year), 1.5°C Dec. 15, 1967.
Sediment concentrations: Maximum daily, 6,170 mg/l Jan. 16, 1973; minimum daily, 1 mg/l on several days each year.
Sediment discharge: Maximum daily, 125,000 tons (113,000 tonnes) Jan. 16, 1973; minimum daily, 0.06 ton (0.05 tonne) Sept. 15, 16, 1974.

REMARKS.--No thermograph record Oct. 1-23, probe inoperative; Jan. 16 to Feb, 3, Apr. 2-23, recorder malfunction. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV.											
07...	1000	85	--	--	--	32	8.0	--	--	--	--
DEC.											
12...	1205	95	--	--	--	35	7.8	--	--	--	--
JAN.											
24...	1215	281	--	--	--	33	7.4	--	--	--	--
FEB.											
21...	1200	115	--	--	--	36	8.1	--	--	--	--
MAR.											
21...	0845	185	--	--	--	38	8.2	--	--	--	--
APR.											
25...	0900	196	--	--	--	35	7.6	--	--	--	--
MAY											
23...	1435	83	--	--	--	42	8.3	--	--	--	--
JULY											
31...	1010	33	--	--	--	41	7.6	--	--	--	--
AUG.											
26...	1210	26	25	140	10	42	7.1	19	1.9	133	103
SEP.											
20...	1055	22	26	20	0	39	6.8	21	1.8	136	113

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	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)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
NOV.											
07...	41	17	--	--	--	--	--	--	.29	.06	.74
DEC.											
12...	43	16	--	.31	.11	.00	.02	.31	.13	.10	.21
JAN.											
24...	42	13	--	--	.09	--	.00	--	.09	--	--
FEB.											
21...	44	15	--	--	--	--	--	--	.12	--	--
MAR.											
21...	53	14	--	--	.08	--	.00	--	.08	.02	.24
APR.											
25...	44	13	--	--	.31	--	.01	--	.32	.06	.13
MAY											
23...	44	15	--	--	--	--	--	--	.11	--	--
JULY											
31...	41	19	--	--	.17	--	.00	--	.17	.02	.22
AUG.											
26...	35	18	.3	--	--	--	--	.65	.64	.13	.17
SEP.											
20...	32	22	.2	--	--	--	--	4.3	.23	.01	.07

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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 ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM
NOV.											
07...	.80	--	.38	.18	--	--	--	--	110	--	--
DEC.											
12...	.31	.62	.27	.19	--	--	--	--	120	--	--
JAN.											
24...	--	--	--	--	--	--	--	--	110	--	--
FEB.											
21...	--	--	--	--	--	--	--	--	120	--	--
MAR.											
21...	.26	--	.14	.09	--	--	--	--	130	--	--
APR.											
25...	.19	--	.13	.14	--	--	--	--	120	--	--
MAY											
23...	--	--	--	--	--	--	--	--	140	--	--
JULY											
31...	.24	--	.01	--	--	--	--	--	130	--	--
AUG.											
26...	.30	.95	.22	--	.16	217	.30	15.2	130	25	23
SEP.											
20...	.08	4.4	.19	--	.15	217	.30	12.9	130	14	26

DATE	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	DIS-SOLVED BORON (B) (UG/L)
NOV.											
07...	--	271	7.0	12.5	10.6	--	1.6	--	1600	--	--
DEC.											
12...	--	305	7.8	9.0	--	21	--	--	4200	--	--
JAN.											
24...	--	318	7.6	9.5	11.9	--	--	--	--	--	--
FEB.											
21...	--	331	6.8	8.5	11.8	--	--	--	--	--	--
MAR.											
21...	--	281	7.9	11.0	10.1	6	2.0	--	140	--	--
APR.											
25...	--	293	7.4	9.5	11.6	9	1.0	--	190	140	--
MAY											
23...	--	333	8.1	16.0	11.1	--	--	--	--	--	--
JULY											
31...	--	330	--	17.0	9.1	1	1.1	--	--	--	--
AUG.											
26...	.7	324	7.6	18.0	9.8	--	--	5.3	B38	--	60
SEP.											
20...	.8	268	7.9	16.5	10.2	--	1.1	2.7	44	310	70

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	--	16.0	--	13.0	--	10.5	11.0	--	10.5	9.0	--	7.5	--	10.0	--	10.5	--	9.5
2	--	--	--	11.5	--	9.0	10.5	--	8.5	8.0	--	6.5	--	9.5	--	10.0	--	9.0
3	--	13.0	--	10.5	--	8.0	9.0	--	8.0	7.0	--	5.0	--	9.5	--	9.5	--	8.5
4	--	--	--	9.5	--	7.0	9.0	--	8.0	7.5	--	5.5	8.5	--	7.0	9.0	--	7.5
5	--	14.0	--	11.0	--	7.5	9.5	--	8.0	8.0	--	7.0	8.0	--	7.0	10.0	--	8.0
6	--	--	--	12.0	--	10.5	9.5	--	8.0	8.5	--	7.5	8.0	--	6.5	10.0	--	9.5
7	--	14.0	--	13.0	--	12.0	10.0	--	8.5	8.5	--	8.0	8.0	--	6.0	9.5	--	9.0
8	--	13.0	--	13.0	--	12.0	10.0	--	9.0	8.5	--	7.5	8.5	--	6.0	9.5	--	7.5
9	--	--	--	13.0	--	11.5	9.5	--	8.5	8.0	--	7.0	8.5	--	6.5	9.5	--	7.0
10	--	14.0	--	13.0	--	12.5	9.0	--	7.5	8.5	--	7.5	8.5	--	7.0	9.5	--	8.0
11	--	--	--	13.5	--	13.0	9.5	--	8.5	8.5	--	7.5	9.5	--	8.0	10.5	--	9.5
12	--	14.5	--	13.0	--	12.0	10.0	--	8.5	10.0	--	8.5	9.0	--	8.5	11.5	--	10.0
13	--	--	--	12.5	--	11.5	10.5	--	9.5	10.5	--	10.0	8.5	--	7.0	11.0	--	9.0
14	--	--	--	12.0	--	11.5	10.5	--	9.5	10.0	--	9.5	8.5	--	7.5	11.5	--	9.5
15	--	14.0	--	11.5	--	10.5	9.5	--	8.5	10.0	--	9.5	9.0	--	7.0	12.0	--	10.5
16	--	--	--	12.5	--	11.5	9.5	--	8.0	--	12.0	--	9.5	--	8.0	12.5	--	11.5
17	--	14.0	--	12.5	--	12.0	10.5	--	9.5	--	11.0	--	9.0	--	7.0	13.0	--	11.5
18	--	--	--	12.0	--	10.5	9.5	--	8.5	--	12.0	--	9.0	--	7.5	13.5	--	11.5
19	--	14.0	--	10.5	--	9.0	9.0	--	7.5	--	12.0	--	10.0	--	8.5	13.0	--	11.5
20	--	--	--	9.5	--	8.5	9.0	--	7.5	--	10.5	--	9.5	--	7.5	12.5	--	11.0
21	--	--	--	9.5	--	8.5	9.5	--	8.5	--	9.0	--	9.0	--	7.5	12.0	--	11.0
22	--	14.5	--	9.5	--	8.5	10.0	--	9.5	--	--	--	8.5	--	7.5	11.5	--	10.5
23	--	14.0	--	9.5	--	8.5	10.0	--	9.0	--	10.0	--	8.5	--	6.5	12.0	--	10.5
24	11.5	--	11.0	10.0	--	9.0	10.5	--	9.5	--	9.5	--	8.5	--	6.0	12.5	--	10.5
25	13.0	--	11.0	9.5	--	8.0	10.5	--	9.5	--	9.5	--	9.0	--	6.5	12.0	--	11.0
26	12.0	--	10.0	9.5	--	8.5	10.5	--	9.5	--	--	--	9.5	--	7.5	12.0	--	11.5
27	12.0	--	9.5	10.0	--	9.0	11.5	--	10.0	--	--	--	10.0	--	8.5	12.5	--	11.5
28	12.0	--	9.5	10.0	--	9.0	12.0	--	11.5	--	9.0	--	10.0	--	9.0	12.0	--	11.0
29	12.5	--	10.0	10.5	--	9.0	12.5	--	11.5	--	--	--	--	--	--	12.5	--	12.0
30	12.5	--	9.5	11.5	--	10.5	11.5	--	9.0	--	9.5	--	--	--	--	12.0	--	11.5
31	12.5	--	10.0	--	--	--	9.0	--	8.0	--	9.5	--	--	--	--	12.0	--	10.5
MONTH	--	--	--	13.5	--	7.0	12.5	--	7.5	--	--	--	10.0	--	6.0	13.5	--	7.0

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	12.0	--	10.5	14.5	--	12.0	16.5	--	14.0	19.0	--	16.5	21.0	--	17.5	19.0	--	15.5
2	--	12.0	--	14.0	--	11.0	17.0	--	14.0	18.5	--	15.5	21.0	--	17.5	19.5	--	16.0
3	--	10.5	--	13.5	--	11.0	18.0	--	15.0	18.5	--	15.5	21.0	--	17.5	18.5	--	15.5
4	--	13.0	--	13.5	--	12.0	18.0	--	14.5	19.0	--	15.5	21.0	--	18.0	19.0	--	15.0
5	--	12.0	--	14.5	--	12.0	19.5	--	16.0	19.0	--	15.5	21.0	--	18.0	19.0	--	15.0
6	--	--	--	15.0	--	12.5	19.5	--	16.0	19.0	--	16.5	21.5	--	18.0	19.5	--	16.0
7	--	--	--	15.5	--	12.5	19.5	--	15.5	18.5	--	15.5	21.0	--	18.0	19.5	--	16.5
8	--	14.0	--	15.0	--	13.0	19.0	--	15.5	17.0	--	16.0	20.0	--	17.5	19.5	--	15.5
9	--	11.5	--	15.5	--	13.0	19.0	--	15.5	16.5	--	15.5	19.5	--	17.0	19.0	--	15.0
10	--	12.0	--	15.5	--	12.5	18.5	--	15.0	16.5	--	14.0	19.5	--	17.0	19.5	--	16.0
11	--	--	--	16.0	--	12.0	18.5	--	15.0	17.5	--	14.0	19.5	--	17.0	19.5	--	16.5
12	--	15.5	--	15.5	--	12.5	18.0	--	15.0	18.0	--	15.0	18.0	--	17.0	18.5	--	16.5
13	--	--	--	14.5	--	11.5	18.0	--	15.5	18.5	--	15.0	19.5	--	16.5	18.5	--	16.5
14	--	--	--	14.5	--	11.5	18.5	--	15.0	19.0	--	15.5	19.5	--	16.0	18.0	--	15.0
15	--	13.0	--	15.0	--	12.0	18.5	--	15.0	19.0	--	16.0	19.0	--	16.5	18.5	--	15.0
16	--	--	--	14.0	--	11.0	17.0	--	15.5	18.5	--	15.5	19.0	--	15.5	18.5	--	15.0
17	--	12.0	--	13.0	--	10.5	16.5	--	14.5	19.0	--	16.0	19.0	--	15.5	18.5	--	15.0
18	--	--	--	11.5	--	10.0	15.5	--	14.5	20.0	--	17.0	19.0	--	15.0	18.0	--	15.0
19	--	13.0	--	13.5	--	10.5	16.5	--	14.5	20.5	--	17.5	19.0	--	15.0	18.5	--	15.5
20	--	--	--	14.0	--	11.0	18.0	--	14.0	20.0	--	17.5	19.0	--	15.0	18.5	--	15.5
21	--	--	--	14.5	--	11.5	19.0	--	15.0	20.5	--	17.0	19.5	--	15.5	18.0	--	14.5
22	--	14.5	--	15.5	--	12.0	19.0	--	16.0	20.0	--	17.0	19.5	--	15.5	17.5	--	14.5
23	--	--	--	16.0	--	12.5	19.0	--	15.5	20.0	--	17.0	20.0	--	16.0	17.5	--	14.5
24	12.0	--	11.0	17.0	--	13.0	18.5	--	15.0	20.0	--	16.5	20.0	--	16.5	17.5	--	14.5
25	12.0	--	9.5	17.5	--	13.5	18.5	--	15.0	21.5	--	18.5	19.5	--	16.5	16.5	--	15.0
26	11.5	--	10.5	19.0	--	15.0	18.0	--	14.5	21.0	--	18.5	20.0	--	16.5	17.0	--	15.0
27	13.0	--	10.0	19.0	--	16.0	18.0	--	14.5	21.0	--	18.5	19.5	--	16.5	16.0	--	15.0
28	14.0	--	11.0	16.5	--	15.0	19.5	--	15.5	21.0	--	18.0	19.5	--	17.0	16.5	--	15.0
29	15.0	--	11.5	17.0	--	13.5	19.5	--	16.5	21.0	--	18.0	19.5	--	16.5	17.0	--	14.0
30	15.0	--	12.0	17.0	--	13.5	19.0	--	16.5	20.5	--	17.0	18.5	--	16.5	17.0	--	13.5
31	--	--	--	17.0	--	14.0	--	--	--	20.5	--	17.0	19.0	--	15.5	--	--	--
MONTH	--	--	--	19.0	--	10.0	19.5	--	14.0	21.5	--	14.0	21.5	--	15.0	19.5	--	13.5

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	16	2	.09	21	9	.51	1280	2130	12300
2	15	2	.08	21	8	.45	310	100	84
3	15	2	.08	22	8	.48	206	25	14
4	15	2	.08	22	7	.42	162	22	9.6
5	14	2	.08	79	49	28	144	18	7.0
6	14	2	.08	427	419	515	117	13	4.1
7	58	57	11	93	197	53	106	8	2.3
8	42	16	1.8	57	60	9.2	99	8	2.1
9	35	9	.85	50	17	2.3	98	7	1.9
10	26	6	.42	59	10	1.6	93	10	2.5
11	22	4	.24	128	167	208	120	67	24
12	21	3	.17	890	1810	6070	96	78	20
13	20	3	.16	210	189	103	246	92	64
14	20	2	.11	189	49	25	165	35	16
15	20	2	.11	115	35	11	129	21	7.3
16	19	2	.10	447	293	453	116	17	5.3
17	18	3	.15	707	697	1990	123	15	5.0
18	18	3	.15	444	298	436	108	12	3.5
19	18	2	.10	205	40	22	100	9	2.4
20	19	2	.10	154	35	15	95	8	2.1
21	27	13	.93	131	22	7.8	260	216	239
22	64	73	17	126	18	6.1	355	269	309
23	106	218	69	113	13	4.0	209	36	20
24	38	167	17	102	12	3.3	170	16	7.3
25	30	140	11	96	10	2.6	147	15	6.0
26	27	130	9.5	94	8	2.0	180	167	109
27	25	50	3.4	84	7	1.6	1080	1160	3620
28	24	34	2.2	79	6	1.3	531	250	358
29	24	21	1.4	77	6	1.2	396	110	118
30	22	12	.71	304	791	2660	332	95	85
31	21	8	.45	---	---	---	285	90	69
MONTH	853	---	148.54	5546	---	12633.86	7858	---	17517.4

	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	277	55	41	188	13	6.6	2890	1800	15300
2	224	26	16	167	9	4.1	1690	733	3600
3	517	372	867	153	7	2.9	903	330	805
4	838	507	1170	150	6	2.4	577	150	234
5	613	280	463	143	6	2.3	451	110	134
6	530	230	329	136	6	2.2	383	110	114
7	507	190	260	126	5	1.7	575	363	655
8	451	160	195	124	4	1.3	474	140	179
9	366	130	128	122	4	1.3	372	69	69
10	319	80	69	118	4	1.3	326	46	40
11	289	45	35	114	4	1.2	302	40	33
12	311	50	42	127	10	3.9	343	132	124
13	293	36	28	123	17	5.6	290	84	66
14	266	28	20	111	11	3.3	266	47	34
15	246	20	13	108	5	1.5	248	22	15
16	421	235	382	105	3	.85	232	16	10
17	927	783	2190	103	4	1.1	220	13	7.7
18	634	377	646	100	4	1.1	211	10	5.7
19	588	280	445	192	77	44	202	10	5.5
20	479	225	291	130	35	12	192	11	5.7
21	394	160	170	123	17	5.6	182	10	4.9
22	339	100	92	123	9	3.0	175	9	4.3
23	305	28	23	111	8	2.4	167	8	3.6
24	281	23	17	108	12	3.5	161	7	3.0
25	261	19	13	103	23	6.4	178	15	7.2
26	238	16	10	100	20	5.4	184	9	4.5
27	220	15	8.9	99	18	4.8	345	155	334
28	206	13	7.2	129	43	30	2100	1330	10200
29	196	11	5.8	---	---	---	797	300	646
30	186	10	5.0	---	---	---	2010	1300	8390
31	181	9	4.4	---	---	---	945	450	1150
MONTH	11903	---	7986.3	3536	---	161.75	18391	---	42184.1

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	2210	940	6680	150	5	2.0	68	4	.73
2	1870	606	3300	143	7	2.7	66	5	.89
3	1030	285	793	138	7	2.6	67	5	.90
4	786	230	488	135	7	2.6	65	4	.70
5	660	200	356	130	6	2.1	63	4	.68
6	574	160	248	127	6	2.1	62	5	.84
7	499	120	162	122	7	2.3	59	6	.96
8	460	83	103	119	7	2.2	56	5	.76
9	463	110	138	115	8	2.5	55	4	.59
10	408	68	75	110	8	2.4	57	4	.62
11	370	50	50	108	7	2.0	57	4	.62
12	345	45	42	105	6	1.7	56	4	.60
13	321	40	35	102	6	1.7	56	4	.60
14	302	30	24	100	5	1.4	55	5	.74
15	284	25	19	98	4	1.1	54	5	.73
16	274	20	15	95	4	1.0	53	4	.57
17	260	12	8.4	94	4	1.0	55	3	.45
18	253	11	7.5	93	4	1.0	59	3	.48
19	244	10	6.6	92	5	1.2	61	3	.49
20	226	9	5.5	89	5	1.2	57	3	.46
21	214	8	4.6	85	5	1.1	53	3	.43
22	203	7	3.8	85	5	1.1	51	3	.41
23	205	7	3.9	78	4	.84	51	3	.41
24	229	31	19	81	4	.87	48	3	.39
25	196	12	6.4	78	4	.84	48	3	.39
26	191	11	5.7	74	5	1.0	46	2	.25
27	187	10	5.0	71	6	1.2	47	3	.38
28	177	9	4.3	69	5	.93	46	4	.50
29	168	9	4.1	71	3	.58	45	4	.49
30	157	7	3.0	71	4	.77	44	3	.36
31	---	---	---	70	4	.76	---	---	---
MONTH	13766	---	12615.8	3098	---	46.79	1660	---	17.42

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	45	3	.36	35	2	.19	27	2	.15
2	45	3	.36	36	2	.19	27	2	.15
3	43	8	.93	36	2	.19	26	3	.21
4	44	9	1.1	35	2	.19	24	2	.13
5	42	10	1.1	35	2	.19	24	2	.13
6	42	12	1.4	34	2	.18	24	2	.13
7	41	15	1.7	34	3	.28	24	2	.13
8	62	30	6.2	33	3	.27	24	2	.13
9	91	23	5.7	33	4	.36	24	2	.13
10	62	5	.84	34	5	.46	23	3	.19
11	53	4	.57	34	3	.28	25	4	.27
12	50	3	.41	33	2	.18	23	3	.19
13	48	3	.39	33	2	.18	23	2	.12
14	47	3	.38	32	2	.17	23	2	.12
15	45	3	.36	31	2	.17	23	1	.06
16	44	3	.36	31	2	.17	23	1	.06
17	42	3	.34	31	2	.17	23	2	.12
18	43	3	.35	30	1	.08	22	2	.12
19	43	3	.35	29	1	.08	22	2	.12
20	42	4	.45	28	3	.23	22	2	.12
21	41	5	.55	28	4	.30	22	2	.12
22	40	5	.54	28	3	.23	22	2	.12
23	40	5	.54	28	2	.15	22	2	.12
24	40	4	.43	28	2	.15	22	2	.12
25	38	4	.41	27	3	.22	21	2	.11
26	37	3	.30	27	3	.22	22	2	.12
27	37	3	.30	27	3	.22	22	2	.12
28	38	4	.41	27	3	.22	24	2	.13
29	38	4	.41	26	3	.21	23	3	.19
30	36	3	.29	26	2	.14	24	3	.19
31	36	2	.19	26	2	.14	---	---	---
MONTH	1395	---	28.02	955	---	6.41	700	---	4.12
YEAR	69661.0		93350.51						

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	853.00	148.54	8	157
NOVEMBER ...	5546.00	12633.86	1080	13700
DECEMBER ...	7858.00	17517.40	1670	19200
JANUARY 1974	11903.00	7986.30	3140	11100
FEBRUARY ...	3536.00	161.75	438	600
MARCH	18391.00	42184.10	3850	46000
APRIL	13766.00	12615.80	1290	13900
MAY	3098.00	46.79	198	245
JUNE	1660.00	17.42	0	17
JULY	1395.00	28.02	1	29
AUGUST	955.00	6.41	0	6
SEPTEMBER ..	700.00	4.12	0	4
TOTAL	69661.00	93350.51	11675	104958

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT.											
07...	1800	14.0	72	69	13	--	--	--	--	--	--
NOV.											
12...	0800	12.5	1030	2360	6560	29	39	49	60	68	73
18...	1700	11.0	336	121	110	--	--	--	--	--	--
DEC.											
01...	1435	11.0	763	442	911	--	--	--	--	--	--
22...	1000	9.0	346	230	215	--	--	--	--	--	--
27...	1000	10.5	1380	1180	4400	15	21	25	32	39	45
JAN.											
16...	1800	12.0	652	577	1020	--	--	--	--	--	--
17...	0800	11.0	1230	1520	5050	--	--	--	--	--	62
MAR.											
01...	1400	10.5	3130	1560	13200	14	20	24	31	41	54
02...	0900	9.5	1710	829	3830	14	17	22	27	33	41
04...	1610	9.0	544	113	166	--	--	--	--	--	33
28...	0800	11.0	2680	1560	11300	15	19	25	31	39	51
30...	0800	11.5	3020	1780	14500	12	16	21	27	34	44
30...	1300	12.0	2050	1200	6640	12	17	18	21	25	--
APR.											
03...	1610	10.5	960	258	669	--	--	--	--	--	19

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.										
07...	83	--	92	--	100	--	--	--	--	--
NOV.										
12...	--	76	--	83	--	99	--	100	--	--
18...	50	--	56	--	70	--	97	--	100	--
DEC.										
01...	--	--	--	--	--	--	--	--	--	--
22...	80	--	81	--	88	--	99	--	100	--
27...	--	49	--	59	--	86	--	100	--	--
JAN.										
16...	35	--	40	--	54	--	93	--	100	--
17...	--	68	--	78	--	94	--	100	--	--
MAR.										
01...	--	69	--	89	--	98	--	100	--	--
02...	--	52	--	70	--	95	--	100	--	--
04...	--	40	--	68	--	100	--	--	--	--
28...	--	68	--	90	--	99	--	100	--	--
30...	--	55	--	77	--	96	--	100	--	--
30...	28	--	31	--	43	--	62	--	77	92
APR.										
03...	--	24	--	43	--	95	--	100	--	--

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JUNE							
03...	1200	15.0	1	67	--	1	8
03...	1205	15.0	1	67	1	3	42
03...	1210	15.0	1	67	--	1	18

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
JUNE						
03...	25	40	57	73	92	100
03...	82	93	96	98	100	--
03...	48	67	80	87	94	100

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
DEC.								
01...	1515	11.0	5	710	73	235	3	21
JAN.								
15...	1255	10.0	20	247	62	79	6	21
FEB.								
04...	1310	7.0	--	149	62	.00	--	--
MAR.								
04...	1505	8.0	5	555	76	134	7	37
APR.								
03...	1505	10.5	5	875	75	106	3	31
MAY								
02...	1105	11.0	6	143	66	6.3	--	14
JUNE								
03...	1210	15.0	--	67	56	.00	--	--
JULY								
02...	1110	15.5	--	45	41	.00	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
DEC.							
01...	60	83	94	99	100	--	--
JAN.							
15...	69	94	99	100	--	--	--
FEB.							
04...	--	--	--	--	--	--	--
MAR.							
04...	72	87	93	96	98	99	100
APR.							
03...	74	90	94	96	98	99	100
MAY							
02...	64	93	99	100	--	--	--
JUNE							
03...	--	--	--	--	--	--	--
JULY							
02...	--	--	--	--	--	--	--

11162500 PESCADERO CREEK NEAR PESCADERO, CALIF.

LOCATION.--Lat 37°15'39", long 122°19'40", in SW¼ sec.5, T.8 S., R.4 W., San Mateo County, temperature recorder at gaging station on left bank at downstream side of highway bridge, 3.0 mi (4.8 km) east of Pescadero, and 5.3 mi (8.5 km) upstream from mouth.
DRAINAGE AREA.--45.9 mi² (118.9 km²).
PERIOD OF RECORD.--Water temperatures: April 1965 to current year.
Sediment records: Water years 1971, 1973 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 21.0°C July 25, 26; minimum, 6.5°C Feb. 7-9, 24.
Period of record:
Water temperatures: Maximum, 22.5°C June 27, 1973; minimum (1965-66, 1967 to current year), 2.0°C Dec. 19, 1965.
REMARKS.--Recorder malfunction Oct. 1 to Dec. 5; recorder stopped Sept. 20-30. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	--	--	--	--	--	--	--	10.0	--	9.0	10.5	--	10.0	11.0	--	11.0
2	--	--	--	--	--	--	--	--	--	9.0	--	7.0	10.5	--	8.5	11.0	--	10.0
3	--	--	--	--	--	--	--	--	--	7.5	--	7.0	9.5	--	7.5	10.5	--	9.0
4	--	--	--	--	--	--	--	--	--	9.0	--	7.5	9.0	--	8.0	10.0	--	8.0
5	--	--	--	--	--	--	--	8.5	--	9.0	--	9.0	9.0	--	7.5	11.0	--	10.0
6	--	--	--	--	--	--	9.5	--	9.0	9.5	--	9.0	8.0	--	7.5	11.0	--	11.0
7	--	--	--	--	--	--	10.0	--	9.5	9.5	--	9.5	8.0	--	6.5	11.0	--	10.5
8	--	--	--	--	--	--	10.0	--	10.0	9.5	--	9.0	8.0	--	6.5	10.5	--	9.0
9	--	--	--	--	--	--	10.0	--	9.5	9.0	--	8.0	8.0	--	6.5	10.0	--	8.5
10	--	--	--	--	--	--	9.5	--	8.5	8.5	--	8.5	8.5	--	7.0	10.5	--	9.5
11	--	--	--	--	--	--	10.0	--	8.5	9.0	--	8.5	9.0	--	8.0	11.5	--	10.5
12	--	--	--	--	--	--	10.0	--	9.0	10.5	--	9.0	9.0	--	9.0	12.0	--	11.0
13	--	--	--	--	--	--	10.5	--	9.5	10.5	--	10.5	9.0	--	8.0	12.0	--	10.5
14	--	--	--	--	--	--	10.5	--	9.5	11.0	--	10.0	9.0	--	7.5	11.5	--	10.0
15	--	--	--	--	--	--	10.0	--	8.5	12.0	--	11.0	8.0	--	7.5	12.0	--	11.0
16	--	--	--	--	--	--	9.0	--	8.0	12.5	--	12.0	9.0	--	8.0	13.0	--	12.0
17	--	--	--	--	--	--	10.0	--	9.0	12.5	--	12.0	9.0	--	8.0	13.0	--	12.0
18	--	--	--	--	--	--	10.0	--	9.0	13.0	--	12.5	9.5	--	8.5	13.0	--	12.0
19	--	--	--	--	--	--	9.0	--	8.0	13.0	--	12.5	10.0	--	9.5	12.5	--	11.0
20	--	--	--	--	9.0	--	8.5	--	8.0	12.5	--	11.5	10.0	--	8.5	12.0	--	11.0
21	--	--	--	--	--	--	10.5	--	8.5	11.5	--	9.5	9.0	--	8.5	12.0	--	11.5
22	--	--	--	--	--	--	11.0	--	10.5	10.0	--	8.5	9.5	--	8.5	12.0	--	11.5
23	--	--	--	--	--	--	11.0	--	10.0	9.5	--	8.5	9.0	--	7.0	11.5	--	11.5
24	--	--	--	--	--	--	11.0	--	10.5	10.5	--	9.5	8.0	--	6.5	12.0	--	11.0
25	--	--	--	--	--	--	11.0	--	11.0	10.5	--	10.0	8.5	--	7.0	12.0	--	11.5
26	--	--	--	--	--	--	11.0	--	11.0	10.5	--	9.5	9.5	--	8.0	12.5	--	12.0
27	--	--	--	--	--	--	12.0	--	11.0	10.0	--	7.5	10.0	--	9.0	12.5	--	12.5
28	--	--	--	--	--	--	12.5	--	12.0	9.5	--	8.5	11.0	--	10.0	12.5	--	11.5
29	--	--	--	--	--	--	12.5	--	12.5	10.0	--	9.0	--	--	--	13.0	--	12.5
30	--	--	--	--	--	--	12.5	--	10.5	10.0	--	10.0	--	--	--	13.0	--	12.0
31	--	--	--	--	--	--	10.5	--	9.0	10.0	--	9.5	--	--	--	12.0	--	10.5
MONTH	--	--	--	--	--	--	12.5	--	8.0	13.0	--	7.0	11.0	--	6.5	13.0	--	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	12.0	--	12.0	13.5	--	12.5	16.0	--	14.0	17.5	--	15.5	19.5	--	17.5	17.5	--	15.5
2	12.0	--	11.0	12.5	--	12.0	16.5	--	15.0	18.0	--	16.0	20.0	--	17.5	17.0	--	15.5
3	12.5	--	10.0	13.0	--	12.0	16.0	--	15.0	18.0	--	15.5	20.0	--	17.5	17.5	--	15.5
4	12.0	--	9.0	13.5	--	12.5	16.5	--	14.0	18.0	--	16.0	20.0	--	18.0	17.5	--	15.5
5	12.0	--	10.5	13.0	--	12.5	17.0	--	15.0	18.0	--	15.5	20.0	--	18.0	17.0	--	14.0
6	12.0	--	11.0	14.0	--	12.0	17.5	--	15.0	17.0	--	16.0	20.5	--	18.0	17.5	--	14.5
7	12.0	--	10.0	15.0	--	13.0	17.0	--	15.0	17.0	--	15.5	20.0	--	18.0	18.0	--	15.5
8	12.5	--	11.5	15.5	--	14.0	17.0	--	14.0	17.0	--	16.0	19.5	--	17.5	18.0	--	15.5
9	12.5	--	11.5	15.5	--	14.0	17.5	--	15.0	17.0	--	16.0	19.5	--	17.5	18.0	--	15.5
10	11.5	--	10.0	15.0	--	13.0	17.5	--	15.5	16.0	--	15.0	19.5	--	17.5	18.5	--	16.0
11	12.0	--	10.0	15.0	--	12.5	17.5	--	15.5	17.0	--	15.0	19.5	--	17.5	18.0	--	15.0
12	12.5	--	11.0	15.0	--	13.5	17.0	--	15.5	17.5	--	15.5	19.5	--	17.5	18.0	--	15.5
13	12.0	--	10.5	14.5	--	12.5	17.5	--	15.5	18.0	--	16.0	19.5	--	17.5	18.0	--	16.5
14	12.5	--	10.5	14.0	--	12.5	17.0	--	14.5	18.0	--	16.0	19.0	--	16.5	17.5	--	15.0
15	12.5	--	11.5	14.0	--	13.0	17.0	--	14.5	18.0	--	16.5	18.0	--	16.5	17.0	--	15.0
16	12.0	--	10.5	14.0	--	12.0	16.5	--	15.5	18.0	--	16.5	18.0	--	16.5	17.0	--	15.0
17	12.0	--	11.5	13.0	--	12.0	16.0	--	15.0	19.0	--	17.0	18.0	--	16.5	17.0	--	15.0
18	11.5	--	11.0	12.5	--	10.5	15.5	--	15.0	20.0	--	17.5	18.0	--	15.0	17.0	--	14.5
19	12.0	--	11.0	13.0	--	11.5	16.0	--	15.0	20.0	--	17.5	18.0	--	15.0	17.0	--	15.0
20	13.0	--	11.0	13.5	--	12.0	17.0	--	15.0	19.5	--	17.5	17.5	--	14.5	--	--	--
21	13.0	--	12.0	14.0	--	12.0	18.0	--	15.5	19.5	--	17.0	17.0	--	14.0	--	--	--
22	13.0	--	12.0	15.0	--	13.0	18.0	--	16.0	19.0	--	16.5	17.5	--	14.5	--	--	--
23	12.5	--	12.0	15.5	--	13.5	18.0	--	16.0	19.0	--	17.0	18.0	--	15.5	--	--	--
24	12.0	--	11.0	15.5	--	13.0	18.0	--	15.5	19.0	--	16.5	18.0	--	16.0	--	--	--
25	11.5	--	10.0	16.5	--	14.0	17.5	--	16.0	21.0	--	18.0	18.5	--	15.5	--	--	--
26	11.0	--	11.0	17.0	--	14.5	17.0	--	15.0	21.0	--	18.5	18.0	--	16.0	--	--	--
27	12.5	--	10.0	17.0	--	15.0	16.5	--	15.0	20.0	--	18.5	17.0	--	16.0	--	--	--
28	13.0	--	11.0	16.0	--	14.5	17.5	--	15.0	20.0	--	18.0	16.5	--	16.0	--	--	--
29	14.0	--	11.5	15.5	--	14.0	18.0	--	16.0	20.0	--	18.0	16.0	--	15.5	--	--	--
30	14.0	--	12.5	16.0	--	13.5	17.5	--	16.0	19.5	--	18.0	15.5	--	15.5	--	--	--
31	--	--	--	15.0	--	14.0	--	--	--	19.0	--	17.5	17.0	--	15.5	--	--	--
MONTH	14.0	--	9.0	17.0	--	10.5	18.0	--	14.0	21.0	--	15.0	20.5	--	14.0	--	--	--

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.

LOCATION.--Lat 37°39'14", long 122°25'31", in Buri Buri Grant, San Mateo County, at gaging station 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).

PERIOD OF RECORD.--Water temperatures: October 1969 to current year.
Sediment records: October 1965 to current year (seasonal record only for water years 1972 to current year).

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 2,740 mg/l Mar. 1; minimum daily, 10 mg/l Nov. 28, 29.
Sediment discharge: Maximum daily, 3,510 tons (3,180 tonnes) Jan. 3; minimum daily, 0.04 ton (0.04 tonne) Nov. 28.
Period of record:
Sediment concentrations: Maximum daily, 19,800 mg/l Jan. 21, 1967; minimum daily, 2 mg/l Dec. 3, 1968.
Sediment discharge: Maximum daily, 26,900 tons (24,400 tonnes) Jan. 21, 1967; minimum daily, 0 tons (0 tonnes) Nov. 11-13, 1967, May 29, June 2, 1969.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974 (ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.5	---	---	---	---	14.0	13.0	---			---	
2	---	16.0	---	---	---	11.5	14.0	---			---	
3	21.5	---	12.0	5.0	15.0	---	---	---			---	
4	---	---	---	---	---	---	---	---			---	
5	22.0	15.0	11.0	---	11.5	---	17.0	---			---	
6	---	18.0	---	---	---	---	---	---			---	
7	---	---	---	---	---	10.0	---	---			---	
8	14.0	16.0	14.5	---	---	---	---	---			---	
9	---	---	---	11.0	---	---	14.5	---			---	
10	---	16.5	---	11.0	---	---	---	---			---	
11	---	---	---	---	11.0	---	---	---			---	
12	---	---	12.5	---	11.0	---	---	---			---	
13	---	16.0	---	16.0	---	---	---	---			---	
14	---	---	---	12.5	---	---	---	---			---	
15	16.0	---	---	13.0	16.0	19.0	---	---			---	
16	---	15.0	---	14.0	---	---	---	---			---	
17	---	13.0	---	15.0	---	---	---	21.5			---	
18	---	---	14.5	15.0	---	---	---	---			---	
19	19.0	---	---	---	11.5	---	---	---			24.5	
20	---	13.0	---	---	14.5	---	---	---			---	
21	---	---	13.5	---	---	14.0	---	---			---	
22	20.0	11.5	---	8.0	---	---	---	---			---	
23	---	---	---	---	---	---	---	---			---	
24	---	---	14.5	---	---	---	---	---			---	
25	---	---	---	15.0	17.0	14.0	---	---			---	
26	---	13.0	---	---	---	---	---	---			---	
27	19.0	---	---	---	---	16.0	---	---			---	
28	---	15.5	15.0	---	14.5	14.0	---	---			---	
29	---	---	---	---	---	15.0	---	---			---	
30	---	13.0	---	---	---	17.0	---	---			---	
31	19.0	---	---	12.0	---	---	---	---			---	
MONTH	---	---	---	---	---	---	---	---			---	

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	3.0	104	.84	1.3	20	.07	36	555	186
2	3.0	110	.89	1.5	26	.11	6.8	80	1.5
3	3.9	116	1.2	1.4	25	.09	4.2	67	.76
4	4.3	100	1.2	1.4	25	.09	2.9	80	.63
5	4.8	56	.73	127	784	584	2.1	92	.52
6	5.3	55	.79	46	430	175	1.4	70	.26
7	46	932	482	2.8	35	.26	2.8	50	.38
8	25	568	115	1.9	20	.10	1.7	33	.15
9	3.2	50	.43	30	357	115	1.4	30	.11
10	2.4	40	.26	66	649	324	.78	25	.05
11	2.5	35	.24	113	1080	716	36	646	240
12	2.2	30	.18	39	623	325	2.0	22	.12
13	2.3	25	.16	6.4	67	2.7	33	459	132
14	1.6	20	.09	2.5	20	.14	2.4	40	.26
15	1.7	16	.07	1.8	20	.10	1.8	30	.15
16	1.6	20	.09	64	896	738	1.8	20	.10
17	1.6	30	.13	98	937	811	12	187	17
18	1.6	35	.15	12	141	7.6	2.0	47	.25
19	1.6	45	.19	2.8	30	.23	2.1	30	.17
20	1.5	30	.12	18	347	78	1.8	20	.10
21	3.2	30	.26	2.2	50	.30	80	1160	916
22	50	1180	812	37	423	190	18	303	36
23	2.1	200	1.1	3.2	40	.35	3.9	50	.53
24	1.1	40	.12	4.2	66	1.3	2.8	42	.32
25	.96	30	.08	11	141	14	3.8	30	.31
26	.98	25	.07	1.8	39	.19	182	1880	2430
27	1.0	22	.06	1.4	20	.08	69	812	208
28	1.2	21	.07	1.4	10	.04	34	464	64
29	1.1	19	.06	1.7	10	.05	48	554	126
30	1.1	17	.05	168	1730	2240	15	50	2.0
31	1.4	16	.06	---	---	---	32	174	34
MONTH	183.24	---	1418.69	868.7	---	6323.80	643.48	---	4397.67

	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	12	60	1.9	8.8	224	12	251	2740	2830
2	7.8	30	.63	2.5	25	.17	66	825	256
3	227	2330	3510	2.5	15	.10	88	939	699
4	79	671	260	2.5	16	.11	16	80	3.5
5	34	316	35	3.1	18	.15	12	50	1.6
6	43	469	75	3.1	20	.17	9.8	60	2.1
7	24	281	21	3.8	22	.23	47	583	207
8	11	160	4.8	1.6	25	.11	6.1	60	.99
9	6.6	110	2.0	2.0	30	.16	4.6	40	.50
10	5.1	70	.96	1.2	32	.10	3.8	35	.36
11	15	140	12	1.2	34	.11	11	108	5.5
12	10	122	5.4	19	248	118	5.3	67	1.1
13	4.5	30	.36	1.6	50	.22	3.1	40	.33
14	25	250	17	2.0	30	.16	3.1	35	.29
15	8.0	30	.65	2.0	26	.14	2.0	34	.18
16	120	2160	700	22	429	154	1.6	32	.14
17	35	370	35	2.0	40	.22	1.6	32	.14
18	50	600	81	2.0	30	.16	2.0	32	.17
19	10	90	2.4	66	928	620	2.0	32	.17
20	4.5	60	.73	2.5	59	.40	2.0	32	.17
21	3.5	45	.43	4.6	100	1.2	2.0	31	.17
22	2.0	32	.17	2.5	60	.41	1.2	30	.10
23	3.1	30	.25	2.0	40	.22	1.6	30	.13
24	2.5	25	.17	1.6	30	.13	1.2	30	.10
25	2.5	22	.15	2.0	110	.59	66	642	279
26	2.5	20	.14	3.2	50	.43	14	155	22
27	2.5	20	.14	2.0	30	.16	67	923	586
28	2.0	20	.11	81	782	604	27	684	218
29	2.0	20	.11	---	---	---	41	411	236
30	2.0	20	.11	---	---	---	39	445	154
31	20	137	31	---	---	---	8.0	80	2.8
MONTH	776.1	---	4798.61	250.3	---	1513.85	806.0	---	5507.54

TOTAL DISCHARGE FOR PERIOD OCT. 1, 1973, TO MAR. 31, 1974 (CFS-DAYS) 3527.82
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD OCT. 1, 1973, TO MAR. 31, 1974 (TONS) 23960.16

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
NOV.										
05...	1530	15.0	442	1640	1960	13	17	21	26	32
17...	1100	13.0	383	2120	2190	14	18	23	28	34
20...	1100	13.0	93	656	165	20	24	31	39	45
JAN.										
03...	1425	5.0	265	4140	2960	9	12	15	18	32
FEB.										
12...	1355	11.0	219	456	270	27	35	42	50	58
28...	1655	14.5	59	203	32	--	--	--	--	--
MAR.										
07...	0940	10.0	107	1170	338	25	31	38	44	51
APR.										
01...	1820	13.0	149	1740	700	24	24	30	37	44
02...	1140	14.0	37	610	61	--	--	--	--	--
09...	1215	14.5	20	223	12	50	59	68	75	82

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.									
05...	44	--	70	--	99	--	100	--	--
17...	46	--	65	--	91	--	99	--	100
20...	59	--	81	--	100	--	--	--	--
JAN.									
03...	32	--	62	--	96	--	100	--	--
FEB.									
12...	66	--	82	--	97	--	99	--	100
28...	--	78	--	90	--	97	--	100	--
MAR.									
07...	59	--	85	--	100	--	--	--	--
APR.									
01...	59	--	79	--	99	--	100	--	--
02...	38	--	54	--	99	--	100	--	--
09...	88	--	95	--	99	--	100	--	--

11167700 ROSS CREEK BELOW JARVIS ROAD, AT SAN JOSE, CALIF.

LOCATION.--Lat 37°15'48", long 121°53'08", in San Juan Bautista Grant, Santa Clara County, at gaging station at south city limits of San Jose, 100 ft (30 m) upstream from Cherry Avenue, 1,400 ft (427 m) downstream from Jarvis Road bridge, and 0.5 mi (0.8 km) upstream from mouth.

DRAINAGE AREA.--7.64 mi^2 (19.79 km^2).

PERIOD OF RECORD.--Chemical analyses: Water years 1972-74, partial-record station (discontinued).
Sediment records: Water years 1973-74, partial-record station (discontinued).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV.												
30...	1410	5.1	14	30	24	11	30	2.6	99	0	81	37
30...	1955	420	3.8	90	6.7	2.7	4.2	2.1	31	0	25	6.6
DEC.												
01...	1030	32	17	70	36	15	18	3.4	109	0	89	41
26...	1425	6.7	--	--	--	--	--	--	--	--	76	--
26...	1505	53	--	--	--	--	--	--	--	--	71	--
26...	2020	5.1	--	--	--	--	--	--	--	--	46	--
JAN.												
16...	1055	3.5	--	--	--	--	--	--	--	--	36	--
16...	1215	182	--	--	--	--	--	--	--	--	29	--
16...	1510	13	--	--	--	--	--	--	--	--	42	--
FEB.												
12...	1445	2.9	6.5	20	36	18	19	2.3	158	0	124	43
12...	1555	34	6.0	60	28	13	17	2.7	124	0	84	38
12...	1730	9.8	4.3	80	16	6.2	13	2.4	56	0	42	18
28...	1820	136	--	--	--	--	--	--	--	--	18	--
28...	1910	202	--	--	--	--	--	--	--	--	18	--
28...	1945	191	--	--	--	--	--	--	--	--	18	--
MAR.												
01...	1835	41	--	--	--	--	--	--	89	0	73	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	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)	SUSPENDED KJEL. NITROGEN (N) (MG/L)
NOV.												
30...	37	.2	--	--	.75	.75	.23	.23	.97	.87	1.2	.10
30...	4.7	.1	--	--	1.0	.95	.32	.08	2.8	.76	3.1	2.3
DEC.												
01...	27	.2	--	--	4.1	3.9	.22	.05	1.4	1.3	1.6	.30
26...	--	--	.82	.07	.89	--	.07	--	.80	--	.87	--
26...	--	--	.95	.05	1.0	--	.20	--	.90	--	1.1	--
26...	--	--	.73	.06	.79	--	.12	--	.67	--	.79	--
JAN.												
16...	--	--	.40	.00	.40	--	.14	--	.76	--	.90	--
16...	--	--	.40	.03	.43	--	.14	--	2.2	--	2.3	--
16...	--	--	.55	.00	.55	--	.21	--	.99	--	1.2	--
FEB.												
12...	19	.2	--	--	.60	.54	.20	.12	1.3	.87	1.5	.51
12...	21	.2	--	--	.95	.91	.45	.34	2.6	1.1	3.0	1.6
12...	17	.2	--	--	1.2	1.2	.39	.33	1.6	1.4	2.0	.30
28...	--	--	--	--	.60	--	.26	.24	1.4	--	1.7	--
28...	--	--	--	--	.61	--	.29	--	2.2	--	2.5	--
28...	--	--	--	--	.59	--	.23	--	2.2	--	2.4	--
MAR.												
01...	--	--	--	--	1.5	--	.45	--	1.3	--	1.8	--

11167700 ROSS CREEK BELOW JARVIS ROAD, AT SAN JOSE, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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 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)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM
NOV.											
30...	1.1	2.0	.47	.12	227	209	.31	3.13	110	24	38
30...	.84	4.1	1.5	.26	55	51	.07	62.4	28	2	23
DEC.											
01...	1.3	5.7	.58	.36	242	230	.33	20.9	150	62	20
26...	--	1.8	.14	--	231	--	.31	4.18	--	--	--
26...	--	2.1	.40	--	193	--	.26	27.6	--	--	--
26...	--	1.6	.26	--	103	--	.14	1.42	--	--	--
JAN.											
16...	--	1.3	.40	--	108	--	.15	1.02	--	--	--
16...	--	2.7	.75	--	82	--	.11	40.3	--	--	--
16...	--	1.7	.57	--	91	--	.12	3.19	--	--	--
FEB.											
12...	.99	2.1	.22	.04	250	225	.34	1.55	160	34	20
12...	1.4	4.0	.48	.18	208	192	.28	18.0	120	22	23
12...	1.7	3.2	.36	.20	138	111	.19	3.28	65	20	29
28...	--	2.3	.60	--	46	--	.06	16.9	--	--	--
28...	--	3.1	.48	--	47	--	.06	25.6	--	--	--
28...	--	3.0	.59	--	41	--	.06	21.1	--	--	--
MAR.											
01...	--	3.3	.94	--	168	--	.23	18.6	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV.											
30...	1.3	310	7.4	16.0	9.1	92	22	8.1	6.3	3100	.1
30...	.3	82	7.3	12.0	9.6	89	100	7.0	2.5	31000	.0
DEC.											
01...	.6	338	7.6	11.5	10.2	94	44	4.8	4.4	13000	.0
26...	--	362	8.8	12.0	--	--	47	8.8	--	--	--
26...	--	312	8.3	13.0	--	--	82	11	--	--	--
26...	--	174	7.8	12.0	--	--	35	7.2	--	--	--
JAN.											
16...	--	130	8.1	13.0	--	--	140	8.6	--	--	--
16...	--	81	7.9	13.0	--	--	110	12	--	--	--
16...	--	145	8.6	14.0	--	--	51	20	--	--	--
FEB.											
12...	.6	348	9.5	13.0	14.5	138	93	10	.1	290	.8
12...	.7	286	9.4	13.0	9.5	90	160	15	.1	6500	.7
12...	.7	186	8.1	13.5	7.5	72	110	14	.7	3000	1.2
28...	--	75	6.5	14.0	--	--	100	14	--	--	--
28...	--	63	6.4	14.0	--	--	120	12	--	--	--
28...	--	66	6.5	13.0	--	--	60	8.4	--	--	--
MAR.											
01...	--	260	7.3	13.0	--	--	58	11	7.1	--	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)
JAN.										
09...	1105	--	.0	--	230	--	15	--	8.2	--
16...	1055	.00	--	1.4	--	.00	--	.06	--	.18
16...	1215	.00	--	1.0	--	.00	--	.03	--	.05
16...	1510	.00	--	.2	--	.00	--	.01	--	.03
FEB.										
12...	1445	.00	--	.2	--	.00	--	.00	--	.00
12...	1555	.00	--	.4	--	.00	--	.00	--	.01
12...	1730	.00	--	1.0	--	.00	--	.00	--	.01

11167700 ROSS CREEK BELOW JARVIS ROAD, AT SAN JOSE, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DIAZINON (UG/L)	TOTAL DIELDRIN (UG/L)	DIELDRIN IN BOTTOM MATERIAL (1G/KG)	TOTAL ENDRIN (UG/L)	ENDRIN 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)
JAN.										
09...	37	--	--	4.3	--	.0	--	.0	--	.0
16...	--	.06	.10	--	.00	--	.00	--	.00	--
16...	--	.06	.10	--	.00	--	.00	--	.00	--
16...	--	.05	.02	--	.00	--	.00	--	.00	--
FEB.										
12...	--	.02	.01	--	.00	--	.00	--	.00	--
12...	--	.36	.25	--	.00	--	.00	--	.00	--
12...	--	.95	.01	--	.00	--	.00	--	.00	--

DATE	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JAN.										
09...	--	.0	--	--	--	--	0	--	--	--
16...	.15	--	.00	.00	.00	.1	--	.12	.06	.03
16...	.09	--	.03	.00	.00	.1	--	.29	.01	.01
16...	.08	--	.01	.00	.00	.0	--	.84	.01	.02
FEB.										
12...	.01	--	.00	.00	.00	.0	--	.23	.00	.08
12...	.13	--	.10	.00	.00	.0	--	.69	.00	.06
12...	.19	--	1.5	.00	.00	.0	--	1.0	.04	.09

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)
NOV.							
30...	1410	4	4	170	<10	0	20
30...	1955	15	2	30	10	2	80
DEC.							
01...	1030	4	4	100	<10	0	10
FEB.							
12...	1445	1	1	170	<10	1	20
12...	1555	1	1	150	<10	1	40
12...	1730	1	1	150	<10	1	40

DATE	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV.							
30...	9	<100	8	.3	.1	70	30
30...	10	200	13	1.1	.0	270	20
DEC.							
01...	10	<100	4	.2	.2	50	20
FEB.							
12...	9	100	18	.2	.0	70	20
12...	16	400	27	.3	.1	160	20
12...	28	300	38	.1	.0	100	40

11167700 ROSS CREEK BELOW JARVIS ROAD, AT SAN JOSE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM
NOV.									
30...	1410	16.0	5.1	70	.96	--	--	--	--
30...	1955	12.0	420	1290	1460	36	46	54	62
DEC.									
01...	1030	11.5	32	73	6.3	--	--	--	--
26...	1425	12.0	6.7	42	.76	--	--	--	--
26...	1505	13.0	53	187	27	--	--	--	--
26...	2020	12.0	5.1	51	.70	--	--	--	--
JAN.									
16...	1055	13.0	3.5	178	1.7	--	--	--	--
16...	1215	13.0	182	449	221	44	53	65	76
16...	1510	14.0	13	185	6.5	--	--	--	--
FEB.									
12...	1445	13.0	2.9	60	.37	--	--	--	--
12...	1555	13.0	34	163	14	--	--	--	--
12...	1730	13.5	8.8	45	1.1	--	--	--	--
28...	1820	14.0	136	662	243	25	33	41	49
28...	1910	14.0	202	532	290	31	45	52	61
28...	1945	13.0	191	455	235	34	46	53	61
MAR.									
01...	1835	13.0	41	196	22	--	--	--	--

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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV.									
30...	--	--	92	--	--	--	--	--	--
30...	69	--	74	--	83	--	94	--	100
DEC.									
01...	--	--	96	--	--	--	--	--	--
26...	--	--	94	--	--	--	--	--	--
26...	--	--	94	--	100	--	--	--	--
26...	--	--	96	--	--	--	--	--	--
JAN.									
16...	--	--	100	--	--	--	--	--	--
16...	86	--	92	--	97	--	100	--	--
16...	--	--	99	--	--	--	--	--	--
FEB.									
12...	--	--	74	--	--	--	--	--	--
12...	--	--	96	--	99	--	100	--	--
12...	--	--	92	--	--	--	--	--	--
28...	58	71	--	89	--	99	--	100	--
28...	69	78	--	90	--	98	--	100	--
28...	69	78	--	90	--	99	--	100	--
MAR.									
01...	--	--	99	--	--	--	--	--	--

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.

LOCATION.--Lat 37°16'09", long 122°03'36", in NE¼NE¼ sec.3, T.8 S., R.2 W., Santa Clara County, at gaging station at 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).

PERIOD OF RECORD.--Chemical analyses: Water years 1972 to current year (partial-record station).
Water temperatures: October 1972 to current year.
Sediment records: October 1972 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 2,360 mg/l Nov. 30; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 209 tons (190 tonnes) Nov. 30; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 3,000 mg/l Jan. 16, 1973; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 361 tons (327 tonnes) Jan. 16, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--No flow Oct. 1-21, July 4 to Sept. 30.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JAN.											
03...	2030	7.0	10	100	13	9.5	12	3.7	91	0	75
07...	1100	1.4	11	140	24	15	20	8.0	158	0	130
MAR.											
14...	1230	.15	14	40	42	27	48	4.3	291	0	239

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
JAN.											
03...	9.3	9.2	.3	1.3	.18	1.5	1.6	.35	1.1	1.4	2.9
07...	17	18	.3	1.1	.12	1.2	.94	.75	2.7	3.4	4.6
MAR.											
14...	39	34	.8	--	--	.34	.26	.11	.37	.48	.82

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL RESIDUE (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
JAN.										
03...	.41	.32	119	.16	2.25	693	112	72	0	26
07...	.56	.44	196	.27	.74	534	129	120	0	25
MAR.										
14...	--	.20	354	.48	.14	377	--	220	0	32

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JAN.										
03...	.6	206	7.9	5.0	10.9	85	1.8	--	--	.0
07...	.8	344	8.1	6.0	10.9	87	2.0	--	--	.0
MAR.										
14...	1.4	572	7.8	14.0	8.8	85	7.4	1100	250	.1

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 HEPTA-CHLOR (UG/L)
JAN.										
03...	2030	.00	.0	.00	.01	.01	.00	.00	.00	.00
07...	1100	.00	.0	.00	.01	.01	.00	.00	.00	.00

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JAN.									
03...	.00	.00	.00	.00	.00	.0	.00	.00	.00
07...	.00	.00	.00	.00	.00	.0	.00	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JAN.							
03...	2030	4	90	<10	40	<100	.3
07...	1100	0	130	<10	30	<100	.4
MAR.							
14...	1230	1	280	<10	0	<100	.0

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	7.0	---	12.0	15.0	---	---	---	---	---
2	---	---	---	6.0	---	10.0	---	---	20.0	---	---	---
3	---	---	10.0	5.0	---	---	---	---	---	---	---	---
4	---	---	10.0	---	---	---	15.0	20.0	---	---	---	---
5	---	14.0	10.5	---	---	---	---	---	---	---	---	---
6	---	15.0	---	---	---	---	---	---	---	---	---	---
7	---	---	---	7.0	---	9.0	---	---	20.0	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	8.0	---	---	---	---	---	---	---	---
10	---	15.0	11.0	---	---	---	---	20.0	---	---	---	---
11	---	15.0	10.0	---	---	---	---	---	---	---	---	---
12	---	---	---	10.0	---	---	---	---	---	---	---	---
13	---	16.0	---	---	---	---	---	---	---	---	---	---
14	---	16.0	---	13.0	---	13.5	---	---	---	---	---	---
15	---	13.5	---	---	---	---	---	---	---	---	---	---
16	---	13.5	---	12.0	---	---	---	---	---	---	---	---
17	---	---	---	12.0	---	---	---	---	---	---	---	---
18	---	---	---	13.0	---	---	14.0	20.0	---	---	---	---
19	---	12.0	---	12.0	---	---	---	---	---	---	---	---
20	---	---	10.0	---	12.5	---	---	20.0	---	---	---	---
21	---	---	---	---	11.0	---	---	---	---	---	---	---
22	---	11.5	---	---	---	---	---	---	---	---	---	---
23	---	10.0	---	---	---	---	---	---	---	---	---	---
24	---	---	10.5	14.0	---	---	---	---	---	---	---	---
25	---	---	---	---	---	13.0	---	20.0	---	---	---	---
26	---	10.5	10.0	---	---	---	---	---	---	---	---	---
27	---	11.0	11.0	---	---	13.0	---	20.0	---	---	---	---
28	---	11.0	---	---	11.0	---	---	---	---	---	---	---
29	---	11.0	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	13.0	---	---	---	---	---	---
31	---	---	7.0	11.0	---	---	---	20.0	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.02	60	0	6.6	1970	101
2	0	0	0	.02	55	0	.34	230	.21
3	0	0	0	.01	55	0	.23	111	.07
4	0	0	0	.01	50	0	.16	75	.03
5	0	0	0	.01	50	0	.16	75	.03
6	0	0	0	.03	36	0	.15	74	.03
7	0	0	0	.03	10	0	.13	73	.03
8	0	0	0	.03	10	0	.13	73	.03
9	0	0	0	.03	9	0	.13	72	.03
10	0	0	0	.03	9	0	.13	72	.03
11	0	0	0	.13	44	.07	.18	79	.04
12	0	0	0	.33	103	.21	.17	57	.03
13	0	0	0	.05	71	.01	.24	66	.04
14	0	0	0	.03	40	0	.17	40	.02
15	0	0	0	.02	23	0	.16	30	.01
16	0	0	0	.45	91	.19	.16	25	.01
17	0	0	0	1.5	309	3.0	.16	24	.01
18	0	0	0	.43	130	.15	.16	24	.01
19	0	0	0	.10	90	.02	.15	23	.01
20	0	0	0	.07	75	.01	.13	22	.01
21	0	0	0	.06	60	.01	.77	184	.89
22	.04	61	.08	.05	52	.01	.56	180	.27
23	.04	170	.02	.04	64	.01	.32	100	.09
24	.03	100	.01	.04	60	.01	.23	75	.05
25	.03	90	.01	.04	55	.01	.16	60	.03
26	.03	80	.01	.04	49	.01	.33	151	.35
27	.02	75	0	.04	40	0	2.6	292	3.5
28	.02	70	0	.04	33	0	.45	120	.15
29	.02	70	0	.04	26	0	.26	100	.07
30	.02	65	0	9.7	2360	209	.18	85	.04
31	.02	65	0	---	---	---	.28	84	.07
MONTH	.27	---	.13	13.42	---	212.72	15.98	---	107.19

	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	.36	55	.05	.13	23	.01	17	1190	62
2	.21	27	.02	.10	22	.01	5.8	237	4.5
3	10	1520	134	.09	21	.01	2.7	91	.81
4	2.6	293	2.7	.08	20	0	.64	40	.07
5	1.2	155	.60	.08	20	0	.36	35	.03
6	.86	109	.28	.08	20	0	.27	30	.02
7	1.0	152	.43	.08	18	0	1.2	135	.74
8	.51	57	.08	.08	16	0	.43	62	.07
9	.36	36	.03	.06	15	0	.22	50	.03
10	.31	30	.03	.06	15	0	.17	45	.02
11	.24	27	.02	.06	15	0	.16	40	.02
12	.25	24	.02	.06	14	0	.16	35	.02
13	.23	20	.01	.06	12	0	.16	30	.01
14	.23	17	.01	.05	12	0	.16	28	.01
15	.23	16	.01	.05	10	0	.16	28	.01
16	.81	81	.29	.05	10	0	.16	27	.01
17	.46	38	.05	.05	10	0	.16	25	.01
18	.34	43	.05	.05	10	0	.15	25	.01
19	.33	26	.01	.11	30	.01	.13	25	.01
20	.25	20	.01	.10	24	.01	.13	25	.01
21	.19	22	.01	.10	9	0	.13	24	.01
22	.19	25	.01	.10	9	0	.13	23	.01
23	.16	27	.01	.10	9	0	.13	22	.01
24	.16	29	.01	.10	10	0	.13	21	.01
25	.16	27	.01	.10	10	0	.13	21	.01
26	.16	26	.01	.10	10	0	.13	18	.01
27	.15	25	.01	.10	10	0	.61	115	1.0
28	.13	25	.01	1.5	134	2.2	2.9	391	7.9
29	.13	24	.01	---	---	---	.33	107	.14
30	.13	23	.01	---	---	---	4.0	401	9.8
31	.13	23	.01	---	---	---	.42	78	.09
MONTH	22.47	---	138.81	3.68	---	2.25	39.36	---	87.40

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	6.2	939	26	.06	24	0	.03	31	0
2	2.3	250	1.6	.06	23	0	.03	32	0
3	1.2	110	.36	.06	22	0	.03	32	0
4	1.0	55	.15	.06	22	0	.03	33	0
5	.70	50	.09	.06	25	0	.02	34	0
6	.45	45	.05	.06	25	0	.02	35	0
7	.38	40	.04	.06	30	0	.02	36	0
8	.25	40	.03	.06	30	0	.02	35	0
9	.36	40	.04	.06	30	0	.02	33	0
10	.32	35	.03	.06	35	.01	.02	32	0
11	.32	35	.03	.05	35	0	.02	30	0
12	.28	30	.02	.05	35	0	.02	30	0
13	.23	30	.02	.05	35	0	.02	30	0
14	.19	30	.02	.05	35	0	.02	30	0
15	.14	30	.01	.05	35	0	.02	30	0
16	.10	30	.01	.05	35	0	.02	30	0
17	.08	35	.01	.04	36	0	.02	25	0
18	.08	39	.01	.04	37	0	.02	25	0
19	.08	35	.01	.04	32	0	.02	25	0
20	.08	30	.01	.04	26	0	.02	25	0
21	.08	30	.01	.04	26	0	.02	25	0
22	.07	30	.01	.04	27	0	.02	25	0
23	.06	30	0	.04	27	0	.02	25	0
24	.06	30	0	.03	28	0	.02	25	0
25	.06	25	0	.03	28	0	.01	20	0
26	.06	25	0	.03	26	0	.01	20	0
27	.06	25	0	.03	24	0	.01	20	0
28	.06	25	0	.03	25	0	.01	20	0
29	.06	25	0	.03	27	0	.01	20	0
30	.06	25	0	.03	29	0	.01	20	0
31	---	---	---	.03	30	0	---	---	---
MONTH	15.37	---	28.56	1.42	---	.01	.58	---	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	.01	18	0						
2	.01	16	0						
3	.01	15	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	0	0	0				---	---	---
MONTH	.03	---	0	0	---	0	0	---	0
YEAR	112.58		577.07						

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
16...	0915	13.5	.61	104	.17	--	--	--	--	--	--
17...	1450	--	5.3	951	14	52	63	71	80	87	93
30...	1615	--	7.0	2850	54	48	60	69	79	85	94
DEC.											
26...	2150	10.0	.94	853	2.2	60	73	82	91	94	--
JAN.											
03...	1500	--	69	5510	1030	49	54	65	75	82	86
03...	2030	5.0	7.0	666	13	52	60	67	71	73	--
18...	1315	13.0	.52	120	.17	--	--	--	--	--	--
FEB.											
28...	1600	11.0	.10	68	.02	--	--	--	--	--	--
MAR.											
01...	1240	12.0	14	558	21	51	59	67	75	80	--
01...	1530	12.0	16	928	40	60	71	79	86	92	95
01...	1630	12.0	14	538	20	57	66	75	83	88	--
07...	1300	9.0	3.2	163	1.4	--	--	--	--	--	--
30...	1600	13.0	1.1	148	.44	--	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .500 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.										
16...	94	--	100	--	--	--	--	--	--	--
17...	--	97	--	99	--	100	--	--	--	--
30...	--	98	--	100	--	--	--	--	--	--
DEC.										
26...	96	--	96	--	98	--	99	100	--	--
JAN.										
03...	--	92	--	97	--	100	--	--	--	--
03...	76	--	78	--	80	--	84	87	91	100
18...	89	--	93	--	97	--	100	--	--	--
FEB.										
28...	99	--	100	--	--	--	--	--	--	--
MAR.										
01...	83	--	86	--	89	--	93	95	100	--
01...	--	98	--	99	--	100	--	--	--	--
01...	92	--	96	--	99	--	100	--	--	--
07...	97	--	98	--	100	--	--	--	--	--
30...	93	--	95	--	97	--	100	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE
WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	STREAM WIDTH (FT)	SEDI-MENT BEDLOAD DIS-CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
JAN.							
03...	2045	5.0	9	7.6	6.0	1.4	19

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
JAN.						
03...	26	42	55	67	84	100

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.

LOCATION.--Lat 37°17'09", long 122°03'14", in NE¼NW¼ sec.35, T.7 S., R.2 W., Santa Clara County, at gaging station, 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).

PERIOD OF RECORD.--Chemical analyses: Water years 1972, 1974 (partial-record station).
Water temperatures: October 1972 to current year.
Sediment records: October 1972 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 1,780 mg/l Nov. 30; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 54 tons (49 tonnes) Nov. 30; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 6,040 mg/l Jan. 16, 1973; minimum daily, 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.

REMARKS.--No flow Oct. 1 to Nov. 16, Nov. 20-29, Feb. 24-27, May 14 to Sept. 30. Sediment table omitted for period of no flow during July to September.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JAN.											
03...	1940	4.6	14	80	15	12	8.4	2.6	101	0	83
07...	1020	1.0	17	60	30	27	18	2.1	216	0	177
MAR.											
14...	1030	.16	23	30	57	52	35	2.3	406	0	333

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
JAN.											
03...	8.1	9.3	.3	1.1	.08	1.2	1.4	.25	1.7	1.9	3.1
07...	19	23	.2	.73	.04	.77	.65	.07	.87	.94	1.7
MAR.											
14...	39	53	.4	--	--	.65	.59	.04	.09	.13	.78

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL RESIDUE (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
JAN.										
03...	.19	.31	126	.17	1.56	416	93	87	4	17
07...	.16	.18	246	.33	.66	420	131	190	9	17
MAR.										
14...	--	.03	465	.63	.20	470	--	360	23	18

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JAN.										
03...	.4	214	8.0	5.0	11.1	87	1.6	--	--	.0
07...	.6	442	8.2	6.5	10.9	88	2.2	--	--	.0
MAR.										
14...	.8	808	8.5	9.5	10.2	89	2.1	120	53	.0

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 HEPTA-CHLOR (UG/L)
JAN.										
03...	1940	.00	.0	.00	.00	.00	.00	.00	.00	.00
07...	1020	.00	.0	.00	.00	.00	.00	.00	.00	.00
MAR.										
14...	1030	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JAN.									
03...	.00	.00	.00	.00	.00	.0	.00	.00	.00
07...	.00	.00	.00	.00	.00	.0	.00	.00	.00
MAR.									
14...	.00	.00	.00	.00	.00	.0	.00	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JAN.							
03...	1940	1	50	<10	60	<100	2.0
07...	1020	0	40	<10	0	<100	.3
MAR.							
14...	1030	0	30	<10	0	<100	.0

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	10.5	10.5	---	10.5	13.0	---	---	---	---	---
2	---	---	10.0	---	---	9.0	---	---	---	---	---	---
3	---	---	---	6.5	10.0	11.0	---	---	---	---	---	---
4	---	---	---	7.5	---	10.5	---	---	---	---	---	---
5	---	---	---	8.0	---	---	10.0	---	---	---	---	---
6	---	---	---	---	---	---	10.0	---	---	---	---	---
7	---	---	---	6.5	---	9.5	---	---	---	---	---	---
8	---	---	10.5	---	---	12.0	---	---	---	---	---	---
9	---	---	---	8.0	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	10.0	---	11.0	---	---	---	---	---	---	---
12	---	---	10.0	---	10.5	---	---	---	---	---	---	---
13	---	---	11.0	---	---	---	---	---	---	---	---	---
14	---	---	11.0	---	---	9.5	12.5	---	---	---	---	---
15	---	---	---	11.5	---	---	---	---	---	---	---	---
16	---	12.0	11.0	11.5	---	---	---	---	---	---	---	---
17	---	---	10.5	---	---	---	13.0	---	---	---	---	---
18	---	---	---	12.0	---	---	---	---	---	---	---	---
19	---	---	11.5	12.5	---	---	12.0	---	---	---	---	---
20	---	---	---	---	9.0	---	---	---	---	---	---	---
21	---	---	12.0	---	---	---	---	---	---	---	---	---
22	---	---	12.0	---	---	---	---	---	---	---	---	---
23	---	---	12.0	---	---	---	---	---	---	---	---	---
24	---	---	---	10.5	---	---	---	---	---	---	---	---
25	---	---	12.0	---	---	---	---	---	---	---	---	---
26	---	---	10.5	---	---	12.0	---	---	---	---	---	--
27	---	---	11.0	12.0	---	---	---	---	---	---	---	--
28	---	---	---	---	---	---	---	---	---	---	---	--
29	---	---	---	---	---	---	---	---	---	---	---	--
30	---	11.0	---	---	---	---	---	---	---	---	---	--
31	---	---	10.0	---	---	---	---	---	---	---	---	--
MONTH	---	---	---	---	---	---	---	---	---	---	---	--

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	2.9	1540	39
2				0	0	0	.24	67	.04
3				0	0	0	.05	25	0
4				0	0	0	.04	20	0
5				0	0	0	.02	25	0
6				0	0	0	.02	35	0
7				0	0	0	.01	45	0
8				0	0	0	.01	54	0
9				0	0	0	.02	52	0
10				0	0	0	.01	50	0
11				0	0	0	.01	50	0
12				0	0	0	.01	50	0
13				0	0	0	.01	52	0
14				0	0	0	.01	45	0
15				0	0	0	.01	40	0
16				0	0	0	.03	35	0
17				.04	49	.01	.04	30	0
18				.02	21	0	.03	25	0
19				.01	10	0	.03	22	0
20				0	0	0	.04	22	0
21				0	0	0	.07	70	.01
22				0	0	0	.10	36	0
23				0	0	0	.04	15	0
24				0	0	0	.03	15	0
25				0	0	0	.03	31	0
26				0	0	0	.04	55	.01
27				0	0	0	1.8	289	1.9
28				0	0	0	.63	56	.10
29				0	0	0	.24	21	.01
30				1.9	1780	54	.15	16	.01
31				--	--	--	.15	44	.02
TOTAL	0	--	0	1.97	--	54.01	6.82	--	41.10

	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	.16	16	.01	.02	40	0	3.6	611	6.5
2	.11	6	0	.02	40	0	2.5	230	1.6
3	2.5	824	17	.01	37	0	1.9	132	.68
4	2.2	72	.54	.02	36	0	.80	91	.20
5	.92	72	.19	.02	35	0	.42	70	.08
6	.80	24	.05	.02	34	0	.35	58	.05
7	1.2	90	.31	.02	33	0	.45	103	.14
8	.64	20	.03	.02	32	0	.36	70	.07
9	.43	20	.02	.02	31	0	.28	50	.04
10	.35	20	.02	.02	30	0	.23	35	.02
11	.30	20	.02	.02	24	0	.20	26	.01
12	.29	22	.02	.02	24	0	.18	20	.01
13	.25	22	.01	.01	23	0	.16	15	.01
14	.23	24	.01	.02	22	0	.15	13	.01
15	.10	26	.01	.01	21	0	.14	13	0
16	.11	49	.02	.01	20	0	.14	12	0
17	.07	22	0	.01	20	0	.13	11	0
18	.06	46	0	.01	20	0	.18	10	0
19	.06	64	0	.02	40	0	.25	10	.01
20	.05	20	0	.01	29	0	.24	10	.01
21	.04	30	0	.01	25	0	.22	10	.01
22	.04	30	0	.01	20	0	.23	10	.01
23	.03	35	0	.01	20	0	.22	10	.01
24	.03	35	0	0	0	0	.20	10	.01
25	.03	40	0	0	0	0	.20	10	.01
26	.03	45	0	0	0	0	.21	10	.01
27	.03	52	0	0	0	0	.56	105	.58
28	.02	50	0	.24	54	.27	2.5	1610	26
29	.02	45	0	--	--	--	.20	15	.01
30	.02	45	0	--	--	--	1.0	207	.75
31	.02	40	0	--	--	--	.30	40	.03
TOTAL	11.14	--	18.26	.65	--	.27	18.50	--	36.87

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	1.3	570	3.2	.02	30	0			
2	.92	160	.40	.02	30	0			
3	.30	40	.03	.02	30	0			
4	.16	25	.01	.02	30	0			
5	.07	10	0	.02	30	0			
6	.06	10	0	.02	25	0			
7	.05	10	0	.02	25	0			
8	.04	10	0	.01	25	0			
9	.05	40	.01	.01	25	0			
10	.05	25	0	.01	20	0			
11	.04	30	0	.01	20	0			
12	.04	35	0	.01	20	0			
13	.05	40	.01	.01	20	0			
14	.05	42	.01	0	0	0			
15	.05	40	.01	0	0	0			
16	.04	40	0	0	0	0			
17	.04	41	0	0	0	0			
18	.04	40	0	0	0	0			
19	.04	40	0	0	0	0			
20	.03	40	0	0	0	0			
21	.03	40	0	0	0	0			
22	.03	40	0	0	0	0			
23	.03	35	0	0	0	0			
24	.03	35	0	0	0	0			
25	.03	35	0	0	0	0			
26	.03	35	0	0	0	0			
27	.03	30	0	0	0	0			
28	.02	30	0	0	0	0			
29	.02	30	0	0	0	0			
30	.02	30	0	0	0	0			
31	--	--	--	0	0	0			
TOTAL	3.69	--	3.68	.20	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 42.97
TOTAL-SEDIMENT DISCHARGE FOR YEAR (TONS) 154.19

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. FALL DIAM. % FINER THAN .062 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .062 MM
NOV.												
30...	1545	11.0	.36	764	.74	76	90	94	97	98	--	99
DEC.												
26...	2115	10.5	.06	100	.02	--	--	--	--	--	--	96
31...	2030	10.0	.30	178	.14	--	--	--	--	--	--	53
JAN.												
03...	1220	6.5	.30	734	.59	65	79	85	89	90	--	91
03...	1505	5.0	9.5	5130	132	31	39	47	56	63	69	--
03...	1925	5.0	4.6	445	5.5	34	40	43	51	57	63	--
05...	1315	8.0	1.1	328	.97	77	92	96	98	99	--	99
16...	1300	11.5	.16	91	.04	--	--	--	--	--	--	98
MAR.												
01...	0845	10.5	4.6	772	9.6	--	--	--	--	--	--	71

DATE	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. FALL DIAM. % FINER THAN .500 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM	TOTAL SED. FALL DIAM. % FINER THAN 1.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 1.00 MM	TOTAL SED. FALL DIAM. % FINER THAN 2.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 4.00 MM
NOV.											
30...	--	99	--	99	--	100	--	--	--	--	--
DEC.											
26...	--	98	--	100	--	--	--	--	--	--	--
31...	--	58	--	66	--	75	--	84	--	93	100
JAN.											
03...	--	92	--	93	--	94	--	94	--	96	100
03...	78	--	88	--	95	--	99	--	100	--	--
03...	73	--	85	--	98	--	100	--	--	--	--
05...	--	100	--	--	--	--	--	--	--	--	--
16...	--	98	--	100	--	--	--	--	--	--	--
MAR.											
01...	--	80	--	88	--	93	--	96	--	100	--

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	STREAM WIDTH (FT)	SEDI-MENT BEDLOAD DIS-CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
JAN. 03...	1940	5.0	10	4.2	12	5.6	1

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	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
JAN. 03...	20	24	33	43	61	91	100

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.

LOCATION.--Lat 37°18'03", long 122°01'32", Santa Clara County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: Water year 1974 (partial-record station).
Water temperatures: October 1973 to September 1974.
Sediment records: October 1973 to September 1974.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 5,130 mg/l Mar. 1; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 1,230 tons (1,120 tonnes) Jan. 3; minimum daily, 0 tons (0 tonnes) on many days.

REMARKS.--No flow Oct. 14-21, 24-30, Nov. 4, 5, 7-10, 14, 15, 19-29, Jan. 13-15, 20, 21, Feb. 22-27, June 29, 30, July 20 to Aug. 1, Aug. 6-14, 21, 22.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
JAN.											
03...	2200	63	12	70	16	11	13	2.5	107	0	88
07...	0930	6.3	15	70	28	18	21	2.7	192	0	157
MAR.											
14...	1330	1.6	16	0	44	25	39	3.1	232	3	195

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
JAN.											
03...	12	11	.3	1.3	.09	1.4	1.5	.13	2.4	2.5	3.9
07...	28	24	.3	.92	.03	.95	.90	.09	1.0	1.1	2.1
MAR.											
14...	48	45	.4	--	--	.50	.47	.05	.11	.16	.66

DATE	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL RESIDUE (MG/L)	LOSS ON IGNITION (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
JAN.										
03...	.89	.24	137	.19	23.3	2430	224	85	0	24
07...	.17	.12	236	.32	4.01	327	124	140	0	24
MAR.										
14...	--	.05	340	.46	1.47	378	--	210	18	28

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
JAN.										
03...	.6	241	8.2	5.0	11.6	91	1.1	--	--	.0
07...	.8	421	8.5	6.0	11.2	90	1.0	--	--	.0
MAR.										
14...	1.2	598	8.5	16.5	9.1	93	1.2	50	880	.0

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 HEPTA-CHLOR (UG/L)
JAN.										
03...	2200	.00	.0	.00	.01	.02	.01	.01	.00	.00
07...	0930	.00	.0	.00	.00	.01	.00	.01	.00	.00
MAR.										
14...	1330	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JAN.									
03...	.00	.00	.00	.00	.00	.0	.02	.01	.01
07...	.00	.00	.00	.00	.00	.0	.00	.01	.00
MAR.									
14...	.00	.00	.00	.00	.00	.0	.00	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
JAN.							
03...	2200	15	110	<10	220	<100	.6
07...	0930	0	200	<10	30	<100	.6
MAR.							
14...	1330	1	380	<10	0	<100	.0

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.5	---	10.5	9.5	10.0	11.0	---	17.5	---	21.5	24.0	---
2	16.0	---	8.5	---	---	12.0	---	---	---	---	---	19.0
3	---	---	9.5	4.5	11.0	12.0	---	17.5	21.0	22.0	---	---
4	---	---	---	5.0	---	---	18.0	---	---	---	---	21.0
5	17.0	13.5	---	8.0	9.0	12.5	14.5	18.5	22.5	27.0	---	---
6	---	13.0	---	7.0	---	12.0	9.5	18.0	---	---	---	21.0
7	17.0	---	---	6.0	11.5	10.0	17.0	---	21.0	24.0	---	---
8	16.5	---	11.0	---	---	13.0	---	20.0	---	---	---	---
9	---	---	---	8.0	---	6.5	---	---	23.0	20.5	---	---
10	---	---	9.5	---	---	11.0	---	18.0	22.5	---	---	---
11	---	---	11.0	---	11.0	13.0	---	---	---	21.5	---	---
12	---	13.0	9.5	---	---	15.0	---	---	22.0	---	---	---
13	---	---	11.0	---	11.0	16.0	12.0	18.0	---	24.5	---	---
14	---	---	---	---	---	16.0	---	---	20.0	---	---	---
15	---	---	---	---	---	16.0	15.0	15.5	---	22.0	---	---
16	---	13.0	---	12.5	10.0	---	---	---	19.0	---	---	---
17	---	13.0	---	12.0	10.5	15.0	---	---	---	23.0	20.0	---
18	---	12.5	10.5	14.0	---	---	13.0	---	19.0	---	---	---
19	---	---	---	12.5	10.0	13.0	---	---	---	---	23.5	---
20	---	---	11.0	10.5	---	12.5	17.5	16.5	---	---	---	---
21	---	---	10.0	---	---	---	---	16.5	---	---	---	18.0
22	16.0	---	9.5	---	---	12.0	16.5	16.5	---	---	---	---
23	---	---	11.5	---	---	---	15.5	---	---	---	20.5	---
24	---	---	---	---	---	10.5	13.5	17.0	---	---	---	19.5
25	---	---	---	---	---	---	---	---	20.0	---	21.0	---
26	---	---	10.0	---	---	---	15.5	---	---	---	20.0	18.5
27	---	---	11.0	7.5	---	14.5	15.0	21.5	---	---	---	---
28	---	---	11.0	---	14.0	11.5	---	---	---	---	---	20.5
29	---	---	12.5	11.5	---	16.0	17.5	19.5	---	---	---	19.0
30	---	11.0	---	---	---	---	---	---	---	---	---	---
31	---	---	10.0	---	---	---	---	19.5	---	---	24.5	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	3.0	17	.14	4.3	25	.29	44	2130	752
2	3.0	200	1.6	4.3	20	.23	6.3	58	1.1
3	3.0	150	1.2	2.0	20	.11	3.6	6	.06
4	3.0	100	.81	.00	0	.00	.57	2	.00
5	3.0	72	.58	.00	0	.00	.10	2	.00
6	3.0	100	.81	.16	32	.04	2.4	29	.19
7	3.6	400	3.9	.00	0	.00	4.6	67	.83
8	4.3	300	3.5	.00	0	.00	4.6	57	.71
9	3.9	200	2.1	.00	0	.00	4.6	48	.60
10	3.9	150	1.6	.00	0	.00	4.6	39	.48
11	3.3	100	.89	1.6	164	4.7	5.4	80	1.2
12	3.3	75	.67	6.2	1070	53	4.6	48	.60
13	2.0	50	.27	.19	144	.17	5.8	36	.56
14	.00	0	.00	.00	0	.00	5.0	19	.26
15	.00	0	.00	.00	0	.00	5.0	17	.23
16	.00	0	.00	.88	1140	5.2	4.6	15	.19
17	.00	0	.00	5.8	1500	65	4.6	13	.16
18	.00	0	.00	.74	250	.50	4.6	12	.15
19	.00	0	.00	.00	0	.00	4.6	15	.19
20	.00	0	.00	.00	0	.00	4.6	17	.21
21	.00	0	.00	.00	0	.00	9.9	231	13
22	1.5	553	8.3	.00	0	.00	5.8	198	3.5
23	.30	417	1.4	.00	0	.00	3.6	58	.56
24	.00	0	.00	.00	0	.00	3.6	50	.49
25	.00	0	.00	.00	0	.00	3.3	42	.37
26	.00	0	.00	.00	0	.00	4.6	156	5.6
27	.00	0	.00	.00	0	.00	21	2890	203
28	.00	0	.00	.00	0	.00	2.7	1060	9.1
29	.00	0	.00	.00	0	.00	.57	40	.06
30	.00	0	.00	38	2520	915	2.5	60	.41
31	1.6	30	.13	---	---	---	5.4	180	2.6
MONTH	45.70	---	27.90	64.17	---	1044.24	187.14	---	998.41

	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	4.6	150	1.9	2.5	45	.30	71	5130	1040
2	3.3	100	.89	2.2	35	.21	41	2000	235
3	52	2990	1230	1.8	25	.12	28	1000	76
4	18	1190	75	2.2	24	.14	9.1	390	9.9
5	5.8	398	6.7	2.0	23	.12	3.6	200	1.9
6	5.4	260	3.8	1.8	25	.12	3.0	330	2.7
7	6.3	235	4.0	1.5	40	.16	10	743	25
8	3.3	137	1.2	2.0	65	.35	3.6	378	3.7
9	1.5	65	.26	1.8	64	.31	2.0	230	1.2
10	.78	40	.08	2.2	60	.36	1.3	140	.49
11	.32	30	.03	2.0	55	.30	1.2	90	.29
12	.10	20	.01	2.0	48	.26	1.2	100	.32
13	.00	0	.00	2.0	41	.22	.78	132	.28
14	.00	0	.00	2.0	40	.22	1.5	80	.32
15	.00	0	.00	2.0	40	.22	1.3	46	.16
16	3.6	842	23	2.0	40	.22	1.3	35	.12
17	.78	120	.25	1.8	39	.19	1.2	30	.10
18	.32	86	.07	1.8	39	.19	1.2	25	.08
19	.16	45	.02	3.0	155	1.3	3.3	132	1.2
20	.00	0	.00	1.8	40	.19	5.0	146	2.0
21	.00	0	.00	.75	21	.04	4.6	110	1.4
22	.68	16	.03	.00	0	.00	5.8	105	1.6
23	2.0	14	.08	.00	0	.00	5.8	75	1.2
24	1.8	12	.06	.00	0	.00	6.3	78	1.3
25	1.8	10	.05	.00	0	.00	4.6	70	.87
26	1.6	8	.03	.00	0	.00	.23	42	.08
27	1.6	6	.03	.00	0	.00	7.7	666	43
28	1.5	8	.03	14	800	90	17	1100	99
29	1.3	10	.04	---	---	---	2.5	250	1.7
30	1.6	25	.11	---	---	---	19	1350	90
31	2.5	40	.27	---	---	---	2.7	280	2.0
MONTH	122.64	---	1347.94	55.15	---	95.54	266.81	---	1642.91

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	24	1360	142	3.3	18	.16	3.3	40	.36
2	11	1420	42	3.0	15	.12	3.3	39	.35
3	2.7	990	7.2	3.3	13	.12	3.3	38	.34
4	2.5	320	2.2	3.0	24	.19	3.0	52	.42
5	2.2	175	1.0	3.0	36	.29	2.7	65	.47
6	1.3	115	.40	3.3	38	.34	2.7	56	.41
7	.90	47	.11	3.3	48	.43	2.5	48	.32
8	.57	20	.03	3.6	58	.56	2.5	58	.39
9	1.5	42	.17	3.0	59	.48	2.2	68	.40
10	.05	10	.00	3.0	60	.49	2.2	43	.26
11	.84	20	.05	2.7	63	.46	2.2	42	.25
12	.78	20	.04	3.0	66	.53	1.8	42	.20
13	3.0	32	.26	3.9	69	.73	1.8	50	.24
14	3.0	38	.31	3.0	45	.36	1.8	59	.29
15	3.0	44	.36	2.7	31	.23	1.5	47	.19
16	2.5	40	.27	3.0	30	.24	1.8	32	.16
17	.40	10	.01	1.0	30	.08	1.6	34	.15
18	2.7	174	2.3	1.8	40	.19	1.6	36	.16
19	4.6	150	1.9	3.9	50	.53	1.5	32	.13
20	3.9	45	.47	3.9	71	.75	1.5	31	.13
21	1.6	40	.17	3.9	51	.54	1.8	30	.15
22	2.0	150	.81	3.9	35	.37	1.8	30	.15
23	3.9	90	.95	3.9	45	.47	1.5	29	.12
24	4.3	90	1.0	3.6	51	.50	.80	25	.05
25	4.3	75	.87	3.6	60	.58	.80	26	.06
26	3.9	38	.40	3.9	70	.74	1.6	34	.15
27	5.4	36	.52	3.9	88	.93	1.5	40	.16
28	3.6	33	.32	3.9	50	.53	1.3	40	.14
29	3.6	30	.29	3.9	32	.34	.00	0	.00
30	3.3	24	.21	3.6	36	.35	.00	0	.00
31	---	---	---	3.6	41	.40	---	---	---
MONTH	107.34	---	206.62	102.4	---	13.03	55.90	---	6.60

	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	.73	43	.08	.00	0	.00	1.2	11	.04
2	1.8	39	.19	.87	20	.05	1.2	11	.04
3	2.0	34	.18	2.5	46	.31	1.2	10	.03
4	2.0	32	.17	2.2	42	.25	1.0	9	.02
5	2.0	29	.16	1.2	40	.13	1.3	11	.04
6	2.0	29	.16	.00	0	.00	1.3	13	.05
7	2.2	30	.18	.00	0	.00	1.3	12	.04
8	2.2	27	.16	.00	0	.00	1.0	12	.03
9	2.2	25	.15	.00	0	.00	.90	10	.02
10	2.0	23	.12	.00	0	.00	1.0	11	.03
11	2.2	22	.13	.00	0	.00	1.0	11	.03
12	1.8	25	.12	.00	0	.00	1.2	10	.03
13	2.0	29	.16	.00	0	.00	.90	9	.02
14	1.8	35	.17	.00	0	.00	.78	6	.01
15	1.8	50	.24	.54	10	.01	.78	5	.01
16	2.0	43	.23	2.2	20	.12	.78	4	.01
17	2.0	36	.19	2.5	21	.14	.78	3	.01
18	2.5	34	.23	2.5	17	.11	.67	2	.00
19	1.4	32	.12	2.5	15	.10	.67	2	.00
20	.00	0	.00	2.2	15	.09	.67	2	.00
21	.00	0	.00	.00	0	.00	.67	2	.00
22	.00	0	.00	.00	0	.00	.67	2	.00
23	.00	0	.00	.87	46	.11	.67	4	.01
24	.00	0	.00	2.7	20	.15	.67	6	.01
25	.00	0	.00	2.7	13	.09	.67	6	.01
26	.00	0	.00	2.7	28	.20	.67	7	.01
27	.00	0	.00	2.2	24	.14	.67	7	.01
28	.00	0	.00	1.6	20	.09	.67	7	.01
29	.00	0	.00	1.3	17	.06	.57	7	.01
30	.00	0	.00	1.3	13	.05	.57	7	.01
31	.00	0	.00	1.2	11	.04	---	---	---
MONTH	36.63	---	3.14	35.78	---	2.24	26.13	---	.54
YEAR	1105.79		5389.11						

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
17...	1530	13.0	37	6050	604	61	70	74	88	95	97
JAN.											
03...	1830	4.5	103	3550	947	37	42	53	63	73	79
03...	2230	5.0	66	2180	389	40	48	59	69	80	84
MAR.											
01...	1030	11.0	56	3540	535	28	36	44	53	61	--
01...	1500	11.0	76	6520	1340	40	42	54	66	77	86

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.										
17...	--	98	--	99	--	100	--	--	--	--
JAN.										
03...	--	87	--	94	--	99	--	100	--	--
03...	--	88	--	94	--	100	--	--	--	--
MAR.										
01...	66	--	68	--	71	--	73	--	78	89
01...	--	92	--	97	--	99	--	100	--	--

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.										
16...	0850	13.0	2.5	2460	17	67	79	85	88	90
DEC.										
26...	2220	10.0	13	668	23	23	29	37	44	49
27...	0715	11.0	23	3190	198	15	18	21	24	26
27...	1720	13.0	6.7	2020	37	9	10	12	13	13
JAN.										
04...	0810	5.0	21	2920	166	12	15	17	19	20
MAR.										
07...	1800	10.0	9.6	750	19	40	48	55	61	63
31...	1340	--	4.6	164	2.0	--	--	--	--	--

DATE	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	TOTAL SED. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 4.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 8.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 16.0 MM
NOV.									
16...	91	91	92	92	93	98	100	--	--
DEC.									
26...	54	59	70	86	94	100	--	--	--
27...	27	27	29	31	36	43	62	99	100
27...	14	15	17	27	43	69	100	--	--
JAN.									
04...	21	22	25	36	51	67	86	100	--
MAR.									
07...	64	64	65	68	82	96	100	--	--
31...	73	75	78	80	86	100	--	--	--

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
NOV.								
17...	1545	13.0	9	29	12	13	1	14
30...	2210	11.0	5	99	12	257	1	5
DEC.								
01...	0920	10.5	10	23	12	113	--	2
JAN.								
03...	1845	4.5	6	90	12	258	--	6
MAR.								
01...	1030	11.0	3	56	12	137	--	2
01...	1525	11.0	3	78	12	268	--	2

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
NOV.							
17...	51	71	82	89	94	100	--
30...	10	14	18	30	52	90	100
DEC.							
01...	10	18	31	50	75	100	--
JAN.							
03...	13	19	26	41	59	85	100
MAR.							
01...	9	17	28	42	63	94	100
01...	13	26	39	55	71	91	100

11169800 COYOTE CREEK NEAR GILROY, CALIF.

LOCATION.--Lat 37°04'40", long 121°29'36", in NE¼SE¼ sec.11, T.10 S., R.4 E., Santa Clara County, at gaging station 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.--Water temperatures: December 1964 to current year.
Sediment records: December 1964 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 563 mg/l Dec. 1; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 2,310 tons (2,100 tonnes) Dec. 1; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 3,220 mg/l Jan. 19, 1969; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 41,600 tons (37,700 tonnes) Jan. 19, 1969; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--No flow Oct. 1 to Nov. 11, Sept. 4-30.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	10.0	---	---	10.0	---	15.5	---	---	---	---
2	---	---	---	---	---	9.0	9.5	---	---	22.0	---	---
3	---	---	7.5	5.0	---	10.0	9.0	---	17.0	---	---	---
4	---	---	7.5	4.0	---	7.5	---	---	22.0	---	---	---
5	---	---	---	---	---	7.0	---	---	---	---	---	---
6	---	---	8.0	9.5	---	---	---	14.5	---	---	22.5	20.0
7	---	---	10.5	8.0	---	8.0	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	19.5	---	---
9	---	---	---	5.5	---	---	---	---	---	22.5	---	---
10	---	---	---	8.5	---	---	---	17.5	---	---	---	---
11	---	---	9.5	8.0	---	---	---	---	20.0	---	---	---
12	---	9.5	---	---	---	---	---	---	---	---	---	---
13	---	12.5	---	---	---	---	17.0	---	---	---	21.0	---
14	---	13.5	---	---	---	---	---	---	---	---	---	---
15	---	---	---	10.5	---	15.0	---	---	---	---	---	---
16	---	13.5	---	7.0	---	---	---	---	---	20.0	---	---
17	---	10.0	---	10.5	---	---	---	---	---	---	---	---
18	---	9.5	---	---	---	---	12.5	---	21.5	---	---	---
19	---	10.5	---	10.5	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	23.0	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	10.5	---	9.5	---	---	---	---	---	---	---	---
23	---	---	---	9.5	---	---	---	---	---	21.5	---	---
24	---	---	---	---	---	---	14.0	---	---	---	---	---
25	---	---	---	---	---	---	---	---	21.0	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	6.0	---	---	---	---	---	---	---	21.5	---
28	---	---	12.5	---	---	11.5	---	---	---	---	---	---
29	---	---	---	---	---	15.0	---	---	---	---	---	---
30	---	---	---	6.0	---	13.5	15.0	---	---	23.5	---	---
31	---	---	---	---	---	13.5	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11169800 COYOTE CREEK NEAR GILROY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	1030	563	2310
2				0	0	0	207	70	39
3				0	0	0	76	23	4.7
4				0	0	0	44	15	1.8
5				0	0	0	30	10	.81
6				0	0	0	23	2	.12
7				0	0	0	18	1	.05
8				0	0	0	15	1	.04
9				0	0	0	12	1	.03
10				0	0	0	11	1	.03
11				0	0	0	12	1	.03
12				77	15	5.7	16	1	.04
13				26	4	.35	14	1	.04
14				77	7	1.5	14	1	.04
15				29	2	.16	12	1	.03
16				18	4	.19	10	1	.03
17				177	75	81	9.6	1	.03
18				216	14	8.2	9.4	1	.03
19				62	2	.33	8.2	1	.02
20				32	2	.17	7.5	1	.02
21				23	2	.12	12	5	.35
22				17	2	.09	67	19	3.7
23				13	2	.07	40	6	.65
24				12	2	.06	28	4	.30
25				11	2	.06	22	2	.12
26				9.3	2	.05	19	3	.15
27				7.9	2	.04	992	290	852
28				6.8	2	.04	565	21	36
29				6.1	2	.03	237	14	9.0
30				6.9	4	.12	151	13	5.3
31				--	--	--	99	11	2.9
TOTAL	0	--	0	827.0	--	98.28	3810.7	--	3267.36

	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	98	9	2.4	31	1	.08	1080	412	1620
2	66	5	.89	28	1	.08	1550	356	1530
3	62	5	1.1	25	1	.07	1500	316	1520
4	306	36	32	24	1	.06	679	48	88
5	343	17	17	22	1	.06	371	17	17
6	486	28	37	20	1	.05	246	12	8.0
7	719	68	163	19	1	.05	244	8	5.7
8	610	29	48	18	1	.05	224	4	2.4
9	326	15	13	17	1	.05	152	1	.41
10	201	5	2.7	17	1	.05	123	1	.33
11	154	4	1.7	16	1	.04	106	1	.29
12	169	4	1.8	16	1	.04	104	1	.28
13	166	6	2.7	20	1	.05	87	1	.23
14	124	5	1.7	16	1	.04	78	1	.21
15	98	2	.53	15	1	.04	69	1	.19
16	94	6	2.3	15	1	.04	63	1	.17
17	391	29	30	14	1	.04	57	1	.15
18	270	6	4.4	13	1	.04	54	1	.15
19	189	4	2.0	18	3	.15	50	1	.14
20	148	3	1.2	22	2	.12	46	1	.12
21	113	3	.92	17	1	.05	43	1	.12
22	88	2	.48	15	1	.04	40	1	.11
23	72	2	.39	13	1	.04	38	1	.10
24	62	2	.33	12	1	.03	36	1	.10
25	54	2	.29	12	1	.03	38	1	.10
26	48	1	.13	11	1	.03	48	3	.39
27	42	1	.11	11	1	.03	55	4	.59
28	38	1	.10	12	3	.10	353	38	43
29	35	1	.09	--	--	--	201	10	5.8
30	33	1	.09	--	--	--	365	40	44
31	31	1	.08	--	--	--	239	12	8.0
TOTAL	5636	--	368.43	489	--	1.55	8339	--	4896.08

11169800 COYOTE CREEK NEAR GILROY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTORER 1973 TO SEPTEMBER 1974

	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	573	103	371	25	5	.34	7.3	2	.04
2	884	105	312	24	5	.32	6.9	2	.04
3	393	16	17	22	5	.30	6.8	2	.04
4	256	6	4.1	22	5	.30	6.6	4	.07
5	188	4	2.0	21	5	.28	6.7	4	.07
6	147	4	1.6	20	5	.27	6.3	4	.07
7	120	4	1.3	19	5	.26	5.9	4	.06
8	103	4	1.1	16	5	.22	5.6	5	.08
9	109	3	.88	15	5	.20	5.1	5	.07
10	101	3	.82	14	5	.19	4.5	5	.06
11	82	3	.66	13	5	.18	4.3	5	.06
12	71	3	.58	12	5	.16	3.9	5	.05
13	62	3	.50	12	5	.16	3.7	5	.05
14	55	3	.45	11	5	.15	3.8	6	.06
15	51	3	.41	10	5	.14	3.5	6	.06
16	48	4	.52	10	4	.11	3.1	6	.05
17	45	4	.49	9.7	4	.10	3.7	7	.07
18	45	5	.61	9.9	4	.11	3.8	7	.07
19	44	5	.59	9.5	4	.10	4.1	8	.09
20	40	5	.54	9.3	4	.10	4.3	9	.10
21	37	5	.50	9.3	3	.08	3.9	10	.11
22	35	5	.47	8.8	3	.07	3.9	10	.11
23	36	5	.49	8.5	3	.07	3.8	10	.10
24	47	6	.76	8.2	3	.07	3.2	11	.10
25	45	6	.73	7.7	3	.06	3.0	12	.10
26	37	6	.60	7.7	3	.06	2.8	14	.11
27	34	6	.55	7.5	2	.04	2.5	15	.10
28	31	6	.50	7.2	2	.04	2.5	16	.11
29	28	6	.45	7.4	2	.04	2.1	18	.10
30	26	6	.42	7.3	2	.04	2.0	19	.10
31	--	--	--	7.3	2	.04	--	--	--
TOTAL	3773	--	722.62	391.3	--	4.60	129.6	--	2.30

	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	2.4	20	.13	.09	13	0	.06	10	0
2	2.1	21	.12	.07	11	0	.03	6	0
3	1.7	22	.10	.05	10	0	.01	3	0
4	1.6	22	.10	.06	9	0	0	0	0
5	1.6	23	.10	.07	8	0	0	0	0
6	1.8	23	.11	.07	7	0	0	0	0
7	1.5	23	.09	.08	8	0	0	0	0
8	1.4	24	.09	.08	9	0	0	0	0
9	2.3	22	.14	.08	10	0	0	0	0
10	1.8	23	.11	.09	11	0	0	0	0
11	2.2	23	.14	.09	13	0	0	0	0
12	2.5	24	.16	.09	14	0	0	0	0
13	2.1	25	.14	.09	15	0	0	0	0
14	1.9	25	.13	.10	15	0	0	0	0
15	1.6	26	.11	.11	15	0	0	0	0
16	1.5	27	.11	.10	15	0	0	0	0
17	1.2	26	.08	.10	16	0	0	0	0
18	1.1	25	.07	.10	16	0	0	0	0
19	.89	24	.06	.10	16	0	0	0	0
20	.65	23	.04	.12	16	.01	0	0	0
21	.49	22	.03	.11	16	0	0	0	0
22	.42	21	.02	.13	17	.01	0	0	0
23	.37	21	.02	.16	18	.01	0	0	0
24	.32	21	.02	.18	19	.01	0	0	0
25	.26	20	.01	.19	20	.01	0	0	0
26	.22	19	.01	.18	21	.01	0	0	0
27	.19	18	.01	.16	22	.01	0	0	0
28	.16	18	.01	.14	20	.01	0	0	0
29	.15	17	.01	.13	18	.01	0	0	0
30	.12	17	.01	.11	16	0	0	0	0
31	.10	15	0	.08	14	0	--	--	--
TOTAL	36.64	--	2.28	3.31	--	.09	.10	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 23435.65
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 9363.59

11169800 COYOTE CREEK NEAR GILROY, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
DEC.										
01...	1200	8.0	1180	442	1410	41	54	65	78	89
01...	1415	10.0	940	264	670	42	52	64	75	85
27...	0740	10.0	1510	442	1800	29	41	54	68	79
27...	1140	6.0	1240	268	897	31	43	55	68	79
27...	1550	6.0	990	175	468	35	45	59	72	81
JAN.										
07...	1330	8.0	915	183	452	34	50	62	76	87
MAR.										
01...	0950	10.0	1290	737	2570	25	32	40	50	62
05...	1120	7.0	381	17	17	--	--	--	--	--
28...	1135	11.5	512	52	72	--	--	--	--	--
APR.										
02...	1245	9.5	775	68	142	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC.										
01...	--	95	--	99	--	100	--	--	--	--
01...	--	91	--	96	--	99	--	100	--	--
27...	89	--	95	--	99	--	100	--	--	--
27...	86	--	90	--	95	--	99	--	100	--
27...	--	90	--	90	--	93	--	96	--	100
JAN.										
07...	--	93	--	98	--	100	--	--	--	--
MAR.										
01...	72	--	83	--	91	--	98	--	100	--
05...	--	86	--	91	--	96	--	100	--	--
28...	--	84	--	94	--	97	--	99	--	100
APR.										
02...	--	94	--	97	--	100	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.								
05...	1350	1	.00	--	1	2	5	9
05...	1355	1	.00	--	1	1	3	8
05...	1400	1	.00	--	1	2	3	6
05...	1405	1	.00	1	2	8	23	28

DATE	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
NOV.							
05...	16	23	31	56	71	100	--
05...	17	25	35	69	80	80	100
05...	10	17	22	43	100	--	--
05...	32	43	61	100	--	--	--

11176400 ARROYO VALLE ABOVE LANG CANYON, NEAR LIVERMORE, CALIF.

LOCATION.--Lat 37°33'00", long 121°39'57", in SE¼ sec.29, T.4 S., R.3 E., Alameda County, at gaging station 700 ft (213 m) upstream from small right-bank tributary, 1,200 ft (366 m) upstream from Lang Canyon, and 10.5 mi (16.9 km) southeast of Livermore.

DRAINAGE AREA.--126 mi^2 (326 km^2).

PERIOD OF RECORD.--Water temperatures: October 1973 to September 1974.
Sediment records: October 1973 to September 1974.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 1,050 mg/l Apr. 1; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 2,430 tons (2,200 tonnes) Apr. 1; minimum daily, 0 tons (0 tonnes) on many days.

REMARKS.--No flow Sept. 1-30.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	9.5	---	10.5	11.0	11.5	20.0	25.0	27.5		
2		15.5	8.0	---	---	9.0	12.0	20.0	---	---		
3		---	---	6.0	---	---	13.0	---	26.0	29.0		
4		---	9.0	---	---	---	14.0	---	---	---		
5		---	---	---	---	10.5	---	22.5	26.5	29.0		
6		14.5	8.5	---	7.0	---	---	---	---	---		
7		---	---	---	---	10.0	15.0	---	27.0	---		
8		---	---	---	---	---	15.0	24.0	---	---		
9		---	8.5	---	---	---	---	---	---	---		
10		---	---	6.5	---	---	14.0	---	---	23.0		
11		---	---	---	---	11.0	17.0	---	27.0	---		
12		---	---	8.5	---	---	---	---	---	27.5		
13		---	9.5	---	---	13.5	---	---	27.0	---		
14		---	---	---	---	---	---	---	---	---		
15		---	8.5	---	---	14.0	17.0	---	27.0	---		
16		---	---	---	---	---	---	18.0	---	---		
17		---	---	---	---	---	16.0	---	---	---		
18		---	---	12.0	---	12.5	---	---	23.0	---		
19		---	---	---	---	---	---	---	---	---		
20		---	---	---	---	14.0	---	15.0	27.0	---		
21		---	---	---	---	16.5	---	21.0	---	---		
22		---	7.5	---	---	---	17.5	---	---	---		
23		---	---	---	---	---	---	---	---	---		
24		---	---	---	---	15.0	14.5	24.5	---	---		
25		---	---	---	---	---	---	---	---	---		
26		---	---	---	---	14.0	---	---	---	---		
27		---	---	---	---	---	---	---	---	---		
28		---	---	8.0	---	14.0	---	---	---	---		
29		11.5	---	---	---	---	---	---	29.0	---		
30		---	---	---	---	---	21.0	---	---	---		
31		---	---	---	---	12.5	---	24.0	---	---		
MONTH		---	---	---	---	---	---	---	---	---		

11176400 ARROYO VALLE ABOVE LANG CANYON, NEAR LIVERMORE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.10	3	.00	.34	2	.00	700	768	1720
2	.10	3	.00	.34	2	.00	233	161	112
3	.12	3	.00	.37	2	.00	90	65	16
4	.10	3	.00	.37	2	.00	51	32	4.4
5	.10	3	.00	1.7	7	.00	35	18	1.7
6	.08	3	.00	21	169	13	28	14	1.1
7	.79	4	.01	13	42	2.0	23	14	.87
8	1.7	4	.02	6.7	22	.40	20	12	.65
9	1.3	3	.01	4.8	15	.19	18	12	.58
10	.73	3	.01	4.3	10	.12	16	12	.52
11	.51	3	.00	5.0	20	.00	18	12	.58
12	.43	3	.00	73	235	52	19	11	.56
13	.30	3	.00	15	60	2.4	18	11	.53
14	.30	3	.00	10	30	.81	18	10	.49
15	.30	3	.00	6.7	8	.14	16	8	.35
16	.30	3	.00	9.4	5	.13	15	8	.32
17	.21	3	.00	29	14	2.0	15	8	.32
18	.18	3	.00	69	20	4.0	15	6	.24
19	.18	3	.00	24	12	.78	14	6	.23
20	.17	3	.00	14	8	.30	13	6	.21
21	.21	3	.00	13	7	.25	39	31	11
22	.46	3	.01	9.8	6	.16	111	62	20
23	3.2	11	.11	8.6	6	.14	57	28	4.3
24	1.8	3	.01	7.4	5	.10	38	18	1.8
25	1.0	2	.01	7.2	4	.08	30	14	1.1
26	.84	2	.00	7.0	4	.08	71	48	38
27	.59	2	.00	6.5	3	.05	818	531	1190
28	.54	2	.00	6.0	3	.05	555	121	201
29	.43	2	.00	5.6	3	[illegible]	246	30	20
30	.28	2	.00	8.2	23	1	146	20	7.9
31	.26	2	.00	---	---	--	96	12	3.1
MONTH	17.61	---	.19	387.32	---	80.73	3582	---	3359.85

	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	90	8	1.9	32	2	.17	145	227	176
2	68	6	1.1	30	2	.16	582	326	531
3	56	10	1.5	28	2	.15	410	130	144
4	120	6	1.9	27	2	.15	274	40	30
5	176	14	6.7	25	2	.14	170	16	7.3
6	254	45	31	24	18	1.2	123	14	4.7
7	375	93	108	23	16	.99	102	12	3.3
8	475	198	273	22	14	.83	104	10	2.8
9	256	70	48	22	12	.71	76	8	1.6
10	167	36	16	21	10	.57	62	6	1.0
11	136	24	9.0	21	8	.45	55	5	.74
12	220	47	28	21	6	.34	54	10	1.5
13	187	37	19	23	4	.25	49	16	2.1
14	137	30	11	21	2	.11	43	13	1.5
15	112	22	6.7	20	2	.11	39	10	1.1
16	105	17	4.8	20	2	.11	37	10	1.0
17	194	28	15	20	2	.11	34	12	1.1
18	185	19	9.5	19	2	.10	32	12	1.0
19	160	17	7.3	25	10	.68	30	12	.97
20	134	16	5.8	24	8	.52	28	12	.91
21	104	14	3.9	20	6	.32	27	8	.58
22	80	13	2.8	20	4	.22	26	10	.70
23	68	12	2.2	19	2	.10	27	10	.73
24	59	10	1.6	18	2	.10	26	12	.84
25	52	8	1.1	18	2	.10	28	16	1.2
26	46	6	.75	18	2	.10	38	20	2.1
27	41	4	.44	18	2	.10	41	20	2.2
28	37	3	.30	18	4	.19	197	79	54
29	35	3	.28	---	---	---	148	44	19
30	33	3	.27	---	---	---	115	20	6.2
31	32	2	.17	---	---	---	95	14	3.6
MONTH	4194	---	619.01	617	---	9.08	3217	---	1004.77

11176400 ARROYO VALLE ABOVE LANG CANYON, NEAR LIVERMORE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	478	1050	2430	21	17	.96	6.0	6	.10
2	664	547	1180	19	7	.36	5.8	8	.13
3	291	97	82	18	6	.29	5.5	9	.13
4	178	35	17	17	5	.23	5.1	10	.14
5	128	22	7.6	17	4	.18	4.7	10	.13
6	99	14	3.7	16	5	.22	4.3	7	.08
7	80	10	2.2	15	6	.24	3.8	4	.04
8	70	8	1.5	14	7	.26	3.2	10	.09
9	92	16	5.0	13	7	.25	2.8	16	.12
10	124	28	9.4	12	7	.23	3.0	22	.18
11	80	12	2.6	12	7	.23	3.7	29	.29
12	60	14	2.3	11	7	.21	4.3	28	.33
13	48	16	2.1	10	8	.22	4.1	26	.29
14	42	20	2.3	10	15	.41	4.1	26	.29
15	36	22	2.1	10	20	.54	4.1	26	.29
16	34	24	2.2	9.8	36	.95	4.0	30	.32
17	32	26	2.2	9.8	20	.53	4.3	36	.42
18	30	26	2.1	9.9	15	.40	5.1	42	.58
19	31	25	2.1	10	10	.27	5.4	34	.50
20	28	25	1.9	9.8	10	.26	5.2	26	.37
21	27	24	1.8	9.7	7	.18	4.5	24	.29
22	25	24	1.6	9.3	7	.18	3.8	22	.23
23	26	22	1.5	8.9	6	.14	3.2	20	.17
24	33	20	1.8	8.5	6	.14	3.0	18	.15
25	29	20	1.6	7.9	6	.13	2.7	14	.10
26	26	18	1.3	7.5	6	.12	2.5	12	.08
27	25	18	1.2	6.8	7	.13	2.3	10	.06
28	24	18	1.2	6.4	7	.12	2.0	8	.04
29	22	16	.95	6.4	8	.14	1.8	6	.03
30	21	16	.91	6.2	8	.13	1.6	9	.04
31	---	---	---	6.0	8	.13	---	---	---
MONTH	2883	---	3774.16	347.9	---	8.78	115.9	---	6.01

	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	1.6	12	.05	.31	4	.00			
2	1.2	15	.05	.27	4	.00			
3	1.1	18	.05	.21	4	.00			
4	1.1	19	.06	.18	4	.00			
5	.94	20	.05	.20	4	.00			
6	.86	18	.04	.16	3	.00			
7	.93	16	.04	.12	3	.00			
8	.91	14	.03	.10	3	.00			
9	1.7	12	.06	.09	3	.00			
10	3.2	9	.08	.08	3	.00			
11	2.7	12	.09	.08	3	.00			
12	2.2	14	.08	.08	3	.00			
13	1.9	12	.06	.08	3	.00			
14	1.7	12	.06	.08	3	.00			
15	1.4	10	.04	.08	3	.00			
16	1.2	10	.03	.08	3	.00			
17	1.0	8	.02	.08	3	.00			
18	.89	7	.02	.06	3	.00			
19	.84	6	.01	.06	3	.00			
20	.69	4	.01	.06	3	.00			
21	.56	4	.01	.04	3	.00			
22	.46	4	.01	.04	3	.00			
23	.39	4	.00	.03	3	.00			
24	.42	4	.00	.03	3	.00			
25	.36	4	.00	.03	3	.00			
26	.28	4	.00	.03	3	.00			
27	.25	4	.00	.02	3	.00			
28	.25	4	.00	.02	3	.00			
29	.31	4	.00	.01	3	.00			
30	.27	4	.00	.01	3	.00			
31	.28	4	.00	.01	3	.00			
MONTH	31.89	---	.95	2.73	---	.00	.00	---	.00
YEAR	15396.35		8863.53						

11176400 ARROYO VALLE ABOVE LANG CANYON, NEAR LIVERMORE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
06...	1340	14.5	38	358	37	73	86	94	98	98
DEC.										
01...	1215	9.5	911	1040	2560	31	42	57	72	87
01...	1610	9.5	689	488	908	35	47	61	75	86
22...	1015	7.5	101	57	16	--	--	--	--	--
JAN.										
12...	1545	8.5	233	44	28	--	--	--	--	--
MAR.										
01...	1510	11.0	96	176	46	--	--	--	--	--
02...	1715	9.0	504	222	302	--	--	--	--	--
05...	1715	10.5	160	15	6.5	--	--	--	--	--
11...	1715	11.0	58	5	.78	--	--	--	--	--
28...	1705	14.0	325	175	154	--	--	--	--	--
APR.										
01...	1700	11.5	907	2650	6490	42	49	65	79	91
03...	1720	13.0	258	67	47	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.									
06...	--	99	--	100	--	--	--	--	--
DEC.									
01...	95	--	98	--	99	--	100	--	--
01...	93	--	95	--	96	--	100	--	--
22...	--	92	--	93	--	98	--	100	--
JAN.									
12...	--	94	--	96	--	98	--	100	--
MAR.									
01...	--	97	--	98	--	99	--	100	--
02...	--	91	--	95	--	97	--	98	100
05...	--	86	--	90	--	96	--	100	--
11...	--	90	--	100	--	--	--	--	--
28...	--	93	--	96	--	98	--	100	--
APR.									
01...	97	--	99	--	100	--	--	--	--
03...	--	90	--	93	--	99	--	100	--

11176500 ARROYO VALLE NEAR LIVERMORE, CALIF.

LOCATION.--Lat 37°37'24", long 121°45'28", in Valle de San Jose Grant, Alameda County, temperature recorder at gaging station 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).
PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), December 1958 to July 1966.
Water temperatures: October 1959 to September 1961, October 1962 to current year.
Sediment records: October 1962 to September 1967.
EXTREMES.--Current year:
Water temperatures: Maximum, 30.5°C June 29; minimum, 5.5°C Jan. 9.
Period of 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.
REMARKS.--Recorder stopped Oct. 1-3, May 13 to June 4; recorder malfunction July 9-31.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.0	14.5	11.0	---	---	28.0	20.0	26.0	22.0	20.5	16.5
2	12.0	10.0	16.0	10.0	---	---	27.5	17.5	27.0	22.5	20.0	16.5
3	11.0	10.0	16.0	11.0	---	---	28.0	21.0	28.0	23.0	23.0	16.5
4	11.0	9.5	16.5	11.0	---	---	29.0	21.5	26.5	23.0	24.0	16.5
5	11.5	10.0	16.5	11.5	18.0	13.5	28.0	21.5	24.0	17.0	25.0	17.5
6	11.0	10.0	17.0	12.0	19.0	13.0	26.5	20.0	21.0	16.5	25.0	19.5
7	11.0	10.0	18.0	11.5	18.5	12.5	25.0	18.0	20.5	15.5	26.0	20.0
8	11.0	10.0	17.5	11.0	19.0	12.5	23.0	19.0	20.5	15.5	24.5	18.0
9	10.5	10.0	16.0	11.5	19.5	12.5	---	---	21.0	16.0	24.5	17.0
10	11.0	10.0	17.5	11.0	20.0	12.5	---	---	20.0	16.5	24.0	18.5
11	12.0	10.0	17.5	11.0	20.5	12.5	---	---	19.5	16.5	24.0	20.0
12	16.0	11.0	17.0	11.5	24.5	15.0	---	---	19.5	16.0	24.0	16.0
13	17.5	11.5	---	---	24.0	16.0	---	---	19.0	15.5	19.0	16.0
14	19.0	11.5	---	---	25.0	16.5	---	---	19.5	15.0	18.5	15.5
15	18.5	12.0	---	---	25.0	16.5	---	---	18.5	15.5	18.5	15.0
16	19.5	10.5	---	---	23.0	17.0	---	---	17.0	15.5	17.5	15.0
17	16.0	12.5	---	---	21.0	16.0	---	---	19.0	15.5	18.0	14.5
18	14.0	12.0	---	---	21.5	17.0	---	---	18.5	15.0	18.0	14.5
19	18.0	12.0	---	---	22.5	16.5	---	---	19.5	15.5	17.0	15.0
20	19.5	12.0	---	---	27.0	16.0	---	---	21.0	15.5	18.5	14.0
21	20.0	12.5	---	---	27.0	18.0	---	---	21.5	15.5	18.5	14.0
22	18.0	14.5	---	---	25.5	18.0	---	---	21.5	16.0	18.5	14.0
23	16.0	14.0	---	---	26.0	17.0	---	---	21.5	16.5	18.0	14.5
24	14.5	11.5	---	---	25.5	16.5	---	---	21.0	16.5	18.5	14.0
25	17.5	10.5	---	---	24.5	16.0	---	---	21.0	17.0	17.0	14.5
26	15.0	12.0	---	---	25.0	15.0	---	---	21.0	16.5	16.5	14.5
27	18.0	10.5	---	---	26.0	15.5	---	---	20.0	16.5	17.0	14.5
28	15.5	12.0	---	---	29.0	19.0	---	---	20.0	17.5	16.5	14.0
29	19.5	11.0	---	---	30.5	21.5	---	---	20.0	17.5	17.0	14.0
30	17.0	12.5	---	---	28.0	21.5	---	---	19.0	17.5	17.5	14.5
31	---	---	---	---	---	---	---	---	20.0	17.0	---	---
MONTH	20.0	9.5	---	---	30.5	12.5	---	---	28.0	15.0	26.0	14.0

11185350 KERN RIVER NEAR QUAKING ASPEN CAMP, CALIF.

LOCATION.--Lat 36°08'04", long 118°25'49", in SW¼SW¼ sec.32, T.20 S., R.33 E., Tulare County, Sequoia National Forest, temperature recorder at gaging station on right bank, 0.4 mi (0.6 km) upstream from Little Kern River, and 6.8 mi (10.9 km) east of Quaking Aspen Camp.

DRAINAGE AREA.--530 mi^2 (1,373 km^2).

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1974 (discontinued).

EXTREMES.--1973-74:
Water temperatures: Maximum, 18.5°C Sept. 3-6, 9; minimum, freezing point on several days during December and January.
Period of record:
Water temperatures: Maximum, 21.5°C July 14, 1972; minimum, freezing point on several days in 1966, 1971-72, 1974.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	9.5	7.5	6.0	2.5	1.5	1.0	0.5	3.0	2.0	3.5	3.0
2	12.0	9.0	7.5	6.0	1.5	0.0	1.0	0.5	3.0	1.5	3.5	2.5
3	11.0	8.0	6.5	5.5	1.5	0.5	0.5	0.0	2.5	1.0	3.0	1.0
4	10.5	7.5	5.5	3.0	2.0	1.0	0.0	0.0	3.0	2.0	3.0	1.0
5	11.0	8.0	4.0	2.5	2.5	1.5	0.0	0.0	3.0	2.0	4.0	2.0
6	11.0	8.0	6.5	3.5	2.5	1.5	0.0	0.0	2.5	1.5	5.0	3.0
7	10.5	8.0	7.0	5.5	3.0	2.0	0.0	0.0	2.5	1.0	5.0	4.5
8	10.5	9.0	6.5	4.5	3.0	2.5	1.0	0.0	3.0	1.5	4.5	4.0
9	10.0	8.5	5.5	4.0	3.0	2.0	1.0	0.5	3.0	2.0	5.5	4.0
10	10.0	7.0	8.0	5.5	3.0	2.0	0.5	0.0	3.5	2.0	5.5	4.0
11	9.0	7.0	8.0	7.5	2.5	2.0	1.0	0.0	3.5	2.0	6.0	4.0
12	9.5	7.0	8.0	6.5	2.5	2.0	1.5	1.0	3.0	2.0	6.5	4.5
13	11.0	8.0	6.5	5.0	3.0	2.5	1.5	1.0	3.5	2.5	6.5	4.5
14	11.0	8.5	5.5	4.5	3.5	2.5	1.5	0.5	3.5	2.0	8.0	5.0
15	11.0	8.5	4.5	4.0	3.5	2.5	2.5	1.5	4.5	2.5	8.0	6.0
16	11.0	8.5	4.0	3.5	3.5	2.5	2.5	2.0	4.5	3.0	8.0	6.5
17	11.0	8.5	5.5	4.0	3.5	2.5	3.0	2.0	4.0	3.5	7.0	5.5
18	11.0	8.5	5.5	3.5	3.0	2.0	3.0	3.0	3.5	2.0	7.5	5.5
19	11.0	8.5	3.5	2.5	2.5	1.5	3.5	3.0	4.0	3.5	7.0	6.0
20	11.0	9.0	3.0	2.0	2.0	1.5	3.5	3.5	3.5	2.5	8.0	6.0
21	10.0	8.0	3.0	2.5	2.0	1.5	3.5	3.0	4.0	2.0	7.5	6.0
22	9.5	8.0	2.5	2.0	2.0	1.5	3.0	1.5	4.5	2.5	7.0	5.0
23	10.0	9.0	2.5	2.0	2.5	2.0	2.0	1.5	4.0	2.0	7.0	5.0
24	9.0	7.0	2.5	1.5	2.5	2.5	2.5	1.5	4.5	2.0	7.5	5.0
25	8.5	6.5	2.5	2.0	2.5	1.5	2.5	2.0	4.5	2.0	7.0	5.5
26	8.5	6.5	2.5	2.0	2.5	2.0	2.5	1.5	4.5	2.5	7.5	5.5
27	8.5	5.5	2.5	1.5	4.0	2.5	2.0	0.5	4.5	3.0	7.5	6.5
28	8.0	6.0	2.5	1.5	4.5	3.5	2.0	1.0	4.5	3.5	7.5	7.0
29	7.5	5.5	3.0	2.0	4.5	4.0	2.0	1.0	---	---	7.0	5.0
30	7.5	5.5	3.0	2.5	4.5	3.0	2.0	1.5	---	---	7.0	6.0
31	8.0	5.5	---	---	3.0	0.5	2.5	1.5	---	---	7.0	4.5
MONTH	12.5	5.5	8.0	1.5	4.5	0.0	3.5	0.0	4.5	1.0	8.0	1.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	5.5	9.0	6.5	9.5	8.5	15.0	14.5	17.0	15.5	17.5	13.5
2	6.0	3.0	9.0	6.5	9.5	8.5	15.0	14.0	17.5	15.5	18.0	14.5
3	6.5	4.5	9.0	6.5	10.5	8.0	15.0	14.0	16.5	16.0	18.5	15.5
4	6.5	4.0	9.0	7.5	11.0	9.0	15.0	14.5	16.0	15.5	18.5	15.5
5	7.0	5.0	8.0	6.5	11.5	9.0	15.5	14.5	17.5	15.5	18.5	15.5
6	7.5	5.0	9.5	7.0	12.0	9.5	15.5	14.0	17.0	15.0	18.5	15.5
7	7.5	5.0	9.5	7.5	12.0	9.5	15.0	13.5	18.0	16.0	18.0	15.5
8	7.0	5.0	10.0	8.0	11.5	9.5	14.5	13.0	18.0	16.0	18.0	15.0
9	7.0	4.0	10.0	7.0	11.0	9.0	14.5	12.5	18.0	15.5	18.5	15.5
10	5.5	2.5	10.0	7.0	12.0	9.5	15.0	13.5	18.0	16.0	17.5	15.0
11	7.0	4.0	9.5	7.0	12.0	10.0	14.5	12.5	18.0	16.0	17.5	14.5
12	8.0	5.0	9.5	7.0	12.0	10.0	15.5	13.0	18.0	16.0	17.0	15.0
13	8.5	5.5	9.0	6.0	12.5	10.5	16.0	13.5	18.0	16.0	17.0	14.0
14	8.5	6.0	9.0	6.5	12.5	10.5	15.5	14.0	17.0	15.5	16.0	13.0
15	8.5	6.0	9.5	7.0	12.5	10.5	17.0	14.5	17.0	14.0	16.0	12.5
16	8.0	5.5	9.0	6.0	12.0	10.5	16.5	14.5	17.5	15.0	15.5	12.5
17	8.5	6.0	8.0	5.5	11.5	9.5	16.0	14.0	17.5	14.5	15.5	12.5
18	8.0	6.0	6.5	4.5	11.5	10.0	16.0	14.0	17.5	14.5	15.5	12.5
19	6.5	4.5	6.0	4.5	11.5	10.5	16.0	13.5	17.5	14.5	15.5	12.0
20	6.5	5.5	6.5	4.0	12.0	10.5	17.0	15.0	17.0	14.0	15.0	12.0
21	7.5	5.0	8.0	6.0	12.5	11.5	17.5	15.0	17.5	13.5	14.5	11.5
22	7.5	6.0	9.0	7.5	13.0	12.5	17.5	15.0	17.5	14.0	15.0	11.5
23	7.5	5.5	9.0	7.5	13.0	12.0	17.0	16.0	18.0	15.0	14.5	12.5
24	7.0	5.5	10.0	7.5	12.5	11.5	16.5	16.0	18.0	15.0	14.0	12.5
25	6.0	4.0	10.0	8.5	13.0	12.0	17.0	15.0	17.5	14.5	13.5	12.0
26	7.0	4.5	10.5	8.5	13.0	11.5	17.0	15.5	17.5	14.0	14.0	11.5
27	7.5	5.0	10.5	8.5	13.0	11.5	17.5	15.5	17.5	14.5	13.5	11.0
28	7.0	5.5	10.5	8.0	14.0	12.5	18.0	16.0	18.0	15.0	13.5	11.0
29	8.5	5.5	10.0	7.0	14.5	13.0	17.5	16.0	18.0	14.5	13.5	10.5
30	9.0	6.5	10.0	8.0	15.0	14.0	17.0	16.0	17.5	14.5	13.5	10.5
31	---	---	10.0	7.5	---	---	17.0	15.0	17.5	14.0	---	---
MONTH	9.0	2.5	10.5	4.0	15.0	8.0	18.0	12.5	18.0	13.5	18.5	10.5

11187000 KERN RIVER AT KERNVILLE, CALIF.

LOCATION.--Lat 35°45'34", long 118°25'12", in NE¼NW¼ sec.15, T.25 S., R.33 E., Kern County, temperature recorder at gaging station on left bank, 0.5 mi (0.8 km) upstream from highway bridge at Kernville, 1.7 mi (2.7 km) upstream from Caldwell Creek, 9.5 mi (15.3 km) upstream from Isabella Dam, and 42 mi (68 km) northeast of Bakersfield.
DRAINAGE AREA.--1,009 mi² (2,613 km²).
PERIOD OF RECORD.--Water temperatures: June 1962 to current year.
Sediment records: Water years 1967 to current year (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 20.5°C Aug. 23-25; minimum, 2.0°C Jan. 4-7, 11.
Period of record:
Water temperatures: Maximum (1962-63, 1964 to current year), 28.5°C (recorded), Aug. 20, 1972; minimum, 0.5°C Dec. 24, 25, 1970.
REMARKS.--Clock stopped Feb. 14-20, Apr. 7-19, June 13-18; range in temperature, 3.5°C to 5.5°C, 6.0°C to 10.0°C, and 12.0°C to 13.5°C, respectively. No record July 18, 19.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.0	9.5	8.5	5.0	4.5	4.5	4.0	4.5	3.5	5.5	5.0
2	15.5	14.5	9.5	8.5	4.5	4.0	4.5	3.5	4.0	3.5	5.5	4.5
3	15.0	13.5	9.0	8.5	4.0	3.5	3.5	2.5	4.0	3.0	4.5	4.0
4	14.5	13.5	8.5	7.5	4.0	3.5	2.5	2.0	4.0	3.5	5.0	3.5
5	14.5	13.5	7.5	6.5	4.5	3.5	2.5	2.0	4.0	3.5	6.0	4.5
6	14.0	13.5	7.5	7.0	5.0	4.0	2.5	2.0	4.0	3.5	6.5	5.5
7	13.5	13.0	8.5	7.0	5.0	4.0	2.5	2.0	3.5	3.0	6.5	6.0
8	13.3	13.0	8.5	7.5	5.5	4.5	3.5	2.5	4.0	3.0	6.5	6.0
9	13.5	12.5	8.0	7.0	5.5	5.0	3.0	2.5	3.5	3.0	7.0	6.0
10	13.0	12.0	9.0	7.5	5.5	4.5	3.0	2.5	4.0	3.0	7.5	6.5
11	13.0	12.0	9.0	8.5	5.0	4.5	2.5	2.0	4.0	3.5	8.0	6.5
12	12.5	12.0	9.0	8.5	5.0	4.5	3.0	2.5	4.0	3.5	8.0	7.0
13	13.0	12.5	9.0	7.0	6.0	4.5	3.5	3.0	4.5	3.5	8.0	7.5
14	13.5	13.0	7.0	6.5	6.0	5.5	3.5	3.0	---	---	9.0	7.5
15	13.5	13.0	6.5	6.0	6.0	5.5	4.0	3.5	---	---	9.0	8.5
16	13.5	13.0	6.0	5.0	6.0	5.0	4.0	4.0	---	---	9.0	9.0
17	13.5	13.0	7.0	6.0	6.0	5.5	4.5	4.0	---	---	9.0	8.0
18	14.0	12.5	7.0	6.0	6.5	5.5	4.5	3.5	---	---	9.0	8.0
19	12.5	11.5	6.0	5.5	6.0	5.0	5.0	4.5	---	---	9.0	8.5
20	12.5	11.5	5.5	5.0	5.0	4.0	5.0	4.5	---	---	9.0	8.0
21	12.0	11.5	6.0	5.0	4.5	4.0	5.0	4.0	5.0	4.0	9.0	8.0
22	11.5	11.0	5.5	5.0	5.0	4.5	4.5	4.0	5.5	4.5	9.0	8.0
23	11.5	11.0	5.5	5.0	5.0	4.5	4.0	3.5	5.5	4.5	8.5	7.0
24	11.0	10.0	5.5	5.0	5.5	4.5	4.0	3.5	5.5	4.0	8.5	7.0
25	10.5	9.5	5.5	4.5	5.5	4.5	4.0	3.5	5.5	4.5	8.0	7.0
26	10.5	9.5	6.0	5.0	5.5	4.5	4.0	3.5	6.0	5.0	8.0	7.0
27	10.0	9.0	5.0	4.5	5.5	5.0	3.5	3.0	6.0	5.0	8.5	8.0
28	10.0	9.0	5.0	4.0	7.0	5.5	3.5	2.5	6.0	5.0	8.5	8.0
29	10.0	9.0	5.0	4.5	7.0	6.0	3.5	3.0	---	---	8.5	7.5
30	9.5	9.0	5.5	4.5	6.5	6.0	4.0	3.0	---	---	8.5	7.5
31	9.5	8.5	---	---	6.0	4.5	4.0	3.0	---	---	8.0	6.5
MONTH	16.0	8.5	9.5	4.0	7.0	3.5	5.0	2.0	---	---	9.0	3.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.0	11.5	10.5	12.5	12.0	17.5	16.0	19.0	18.0	19.0	18.0
2	7.5	6.5	11.5	10.5	13.0	12.0	17.0	16.5	19.5	18.5	19.5	18.0
3	8.5	7.0	11.5	10.5	13.0	12.0	17.0	16.0	19.5	19.0	20.0	19.0
4	8.5	7.0	11.0	10.0	14.0	13.0	17.5	16.0	19.5	19.0	20.0	19.0
5	9.0	7.5	10.0	9.5	14.0	14.0	17.5	16.5	19.5	18.5	20.0	19.0
6	10.0	8.0	10.5	9.5	14.0	14.0	17.5	16.0	19.0	18.5	20.0	19.0
7	---	---	11.5	10.5	14.0	14.0	17.5	16.5	19.0	18.5	20.0	19.5
8	---	---	11.5	11.5	14.0	13.5	17.5	16.5	19.0	18.5	20.0	19.5
9	---	---	11.5	11.0	14.0	13.5	17.5	16.5	19.0	18.5	20.0	19.5
10	---	---	11.0	10.5	14.5	14.0	17.5	16.5	19.0	18.5	20.0	19.5
11	---	---	11.0	10.5	14.5	14.5	17.0	16.0	19.5	19.0	19.5	19.0
12	---	---	11.0	10.5	14.5	14.0	17.5	16.5	19.5	19.5	19.0	19.0
13	---	---	10.5	10.0	---	---	18.0	17.0	19.5	19.5	19.0	18.0
14	---	---	10.8	10.0	---	---	18.0	17.5	19.5	19.0	18.5	17.5
15	---	---	11.0	10.5	---	---	18.5	17.5	19.5	18.5	18.0	17.0
16	---	---	11.0	10.0	---	---	19.0	18.0	19.0	18.5	17.5	17.0
17	---	---	10.0	9.5	---	---	18.5	17.5	19.0	18.5	17.5	17.0
18	---	---	9.5	9.0	---	---	---	---	19.5	18.5	18.0	17.0
19	---	---	9.0	8.0	13.5	12.5	---	---	19.0	18.5	18.0	17.0
20	9.5	8.0	9.5	8.0	14.0	12.5	18.0	17.0	19.5	18.5	17.[illegible]	17.0
21	10.0	8.0	11.0	9.5	15.0	13.0	18.5	17.5	19.5	18.5	17.5	16.5
22	9.5	8.5	12.0	10.5	15.5	14.0	18.5	18.0	20.0	18.5	17.5	16.5
23	10.0	8.5	12.0	11.0	15.0	14.5	18.5	18.0	20.5	19.0	17.5	17.0
24	9.5	8.5	12.0	10.0	15.0	13.5	19.0	18.0	20.5	19.0	17.0	17.0
25	9.0	7.5	13.0	11.5	15.0	14.0	18.5	18.0	20.5	19.0	17.0	16.0
26	9.0	7.5	13.0	12.5	15.0	13.5	19.0	18.0	20.0	18.5	17.0	16.0
27	9.5	8.0	13.0	12.5	15.5	14.0	19.0	18.5	20.0	18.5	17.0	16.0
28	10.5	8.5	12.5	12.0	15.5	14.5	19.0	18.5	20.0	19.0	16.0	15.5
29	10.5	9.0	12.0	11.5	16.0	15.0	19.0	18.5	20.0	19.0	15.5	14.5
30	11.5	10.0	12.5	11.5	16.5	15.5	19.0	18.5	19.0	19.0	15.5	14.5
31	---	---	13.0	12.5	---	---	19.0	18.0	19.0	18.0	---	---
MONTH	---	---	13.0	8.0	16.5	12.0	19.0	16.0	20.5	18.0	20.0	14.5

BUENA VISTA LAKE BASIN

11187000 KERN RIVER AT KERNVILLE CALIF.--Continued

PERIODIC SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT.					
14...	1630	14.0	235	2	1.3
NOV.					
16...	1000	5.0	298	2	1.6
DEC.					
13...	1205	5.0	302	2	1.6
JAN.					
24...	1220	4.0	596	3	4.8
FEB.					
20...	1710	6.0	385	4	4.2
MAR.					
20...	1150	9.0	996	8	22
APR.					
19...	1045	7.5	1470	13	52
MAY					
24...	1130	12.0	1950	16	84
JUNE					
11...	1530	14.5	3920	85	900
18...	1150	14.0	1970	19	101
AUG.					
23...	1800	20.5	325	4	3.5
SEP.					
19...	1020	17.0	222	3	1.8

11187500 BOREL CANAL BELOW ISABELLA DAM, CALIF.

LOCATION.--Lat 35°38'32", long 118°28'09", in SW¼NE¼ sec.30, T.26 S., R.33 E., Kern County, temperature recorder at gaging station on right bank, 500 ft (152 m) downstream from Isabella Dam, and 3 mi (5 km) upstream from point where canal crosses Erskine Creek.

PERIOD OF RECORD.--Water temperatures: October 1958 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 23.0°C on several days during August and September; minimum, 5.0°C Feb. 26, Mar. 1-3.
Period of record:
Water temperatures: Maximum, 26.5°C July 31, Aug. 1, 1959; minimum, 0.5°C Jan. 17, 18, 1960.
(1958-72, 1973 to current year), 0.5°C
Jan. 17, 18, 1960.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	19.5	15.0	15.0	10.0	9.5	7.0	7.0	7.0	6.5	5.5	5.0
2	19.5	19.0	15.0	14.5	9.5	9.5	7.0	6.5	7.0	6.5	5.5	5.0
3	19.0	18.5	14.5	14.0	9.5	9.0	6.5	6.0	7.0	7.0	5.5	5.0
4	19.5	18.5	14.0	14.0	9.0	9.0	6.0	6.0	7.0	7.0	6.0	5.5
5	19.0	18.5	14.0	13.5	9.0	9.0	6.0	6.0	7.0	7.0	6.0	5.5
6	19.0	18.5	13.5	13.0	9.0	8.5	6.0	6.0	7.0	6.0	6.0	5.5
7	18.5	18.0	13.0	13.0	9.0	9.0	6.0	5.5	6.5	6.0	5.5	5.5
8	18.0	17.5	13.5	13.0	9.0	9.0	6.0	5.5	7.0	6.5	5.5	5.5
9	17.5	17.0	13.0	13.0	9.5	9.0	6.0	6.0	6.5	6.0	5.5	5.5
10	17.0	16.5	13.0	13.0	9.0	8.5	6.0	6.0	7.0	6.5	6.0	5.5
11	17.0	16.5	13.0	12.5	8.5	8.0	6.0	5.5	7.0	6.5	7.0	6.0
12	17.0	16.5	12.5	12.5	8.5	8.0	5.5	5.5	7.0	6.5	6.5	6.0
13	17.0	16.5	12.5	12.5	8.0	7.5	6.0	5.5	7.0	7.0	7.0	6.5
14	17.5	17.0	12.5	12.5	8.0	7.5	6.0	6.0	7.0	6.5	7.5	7.0
15	17.5	17.0	13.0	12.5	7.5	7.5	6.0	6.0	6.5	6.0	8.5	7.5
16	17.5	16.5	12.5	12.5	8.0	7.5	6.0	6.0	6.5	6.5	8.5	8.0
17	17.5	17.0	12.5	12.5	8.0	8.0	6.5	6.0	6.5	6.5	9.5	8.5
18	17.5	17.0	12.5	12.5	8.0	8.0	6.0	6.0	6.5	6.5	8.5	7.5
19	17.5	17.0	12.5	12.0	8.0	7.5	6.0	5.5	6.5	6.5	9.0	8.0
20	17.0	17.0	12.0	12.0	8.0	7.5	6.0	5.5	7.0	6.5	9.0	8.5
21	17.0	16.5	12.0	11.5	7.6	7.5	6.0	6.0	7.0	6.5	8.5	8.5
22	16.5	16.5	11.5	11.0	7.5	7.5	6.5	6.0	6.5	6.0	9.0	8.5
23	16.5	16.5	11.0	11.0	7.5	7.5	6.5	6.5	6.5	6.0	9.5	8.5
24	16.5	16.0	11.0	10.5	7.5	7.5	6.5	6.5	7.0	6.0	10.0	9.0
25	16.0	15.5	10.5	10.5	7.5	7.0	6.5	6.5	9.5	6.5	10.0	10.0
26	15.5	15.5	10.5	10.0	7.0	7.0	6.5	6.5	8.0	5.0	10.0	10.0
27	16.0	15.5	10.0	10.0	7.0	7.0	6.5	6.5	7.5	5.5	10.0	10.0
28	16.0	15.5	10.0	10.0	7.0	7.0	6.5	6.5	6.0	5.5	10.0	10.0
29	15.5	15.5	10.0	10.0	7.0	7.0	6.5	6.5	---	---	10.0	10.0
30	15.5	15.0	10.0	10.0	7.0	7.0	6.5	6.5	---	---	10.5	10.0
31	15.5	15.0	---	---	7.0	7.0	6.5	6.5	---	---	10.5	10.5
MONTH	19.5	15.0	15.0	10.0	10.0	7.0	7.0	5.5	9.5	5.0	10.5	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.5	13.0	13.0	15.0	14.0	19.0	18.5	23.0	22.0	22.5	22.0
2	10.5	10.5	13.0	12.5	15.5	14.0	19.5	18.5	22.5	21.5	22.0	22.0
3	10.5	10.5	12.5	12.5	15.0	14.5	20.0	19.0	22.5	22.0	22.0	22.0
4	11.0	10.5	13.0	12.5	15.0	14.0	20.5	19.5	22.5	22.0	22.5	22.0
5	11.5	10.5	14.0	13.0	14.0	13.5	20.5	19.5	23.0	21.5	22.5	22.0
6	10.5	10.5	14.0	14.0	15.0	13.5	20.0	19.0	22.5	21.5	22.5	22.5
7	11.5	10.5	14.0	13.5	15.0	14.0	20.0	19.5	22.0	21.5	22.5	22.5
8	12.0	10.5	14.0	13.0	16.5	14.5	20.0	19.5	22.5	21.5	22.5	22.5
9	11.0	10.5	13.5	13.0	16.5	16.5	20.0	19.5	22.5	21.5	22.5	22.0
10	10.5	10.5	13.0	13.0	17.0	16.5	20.0	20.0	23.0	21.5	23.0	22.0
11	11.0	10.5	15.0	13.0	17.0	16.0	20.0	19.0	23.0	21.5	22.0	22.0
12	11.0	10.5	14.0	14.0	17.0	16.0	20.5	19.0	22.5	21.5	22.0	22.0
13	11.5	10.5	14.0	14.0	17.0	16.0	21.0	20.0	21.5	21.5	22.0	22.0
14	13.0	11.5	14.0	14.0	17.5	16.5	20.5	20.5	22.0	21.5	22.0	22.0
15	13.5	12.0	14.0	14.0	17.5	16.5	20.5	20.0	22.5	21.5	22.0	22.0
16	13.0	12.0	14.0	14.0	17.0	16.5	20.5	20.5	22.5	22.0	22.5	22.0
17	12.5	12.0	14.0	14.0	18.0	16.0	20.5	20.0	22.0	21.5	22.0	21.5
18	12.5	12.0	14.0	14.0	18.0	16.5	20.5	20.5	22.5	21.5	21.5	21.5
19	12.0	12.0	14.0	14.0	17.0	16.5	20.5	20.5	22.0	21.5	21.5	21.5
20	12.0	12.0	14.0	14.0	17.5	17.0	20.5	20.5	22.0	21.5	21.5	21.5
21	12.5	12.0	14.0	14.0	18.5	17.0	20.5	20.0	22.0	21.5	22.0	21.5
22	13.0	12.5	14.0	14.0	18.5	16.5	21.5	20.0	22.0	22.0	22.5	21.5
23	13.0	12.5	14.0	14.0	18.5	16.5	22.0	21.0	22.0	22.0	22.0	22.0
24	12.5	12.5	14.0	14.0	19.5	18.0	22.0	21.5	22.5	22.0	22.0	21.5
25	12.5	12.0	14.0	13.5	18.5	17.5	21.5	21.0	23.0	22.5	22.0	21.5
26	12.0	12.0	14.5	14.0	19.5	17.5	21.5	21.0	22.5	22.5	21.5	21.5
27	12.0	12.0	14.5	14.5	19.5	17.5	21.5	21.0	22.5	22.0	21.5	21.5
28	12.0	12.0	14.5	14.0	19.5	17.5	21.5	20.5	22.0	22.0	21.5	21.0
29	13.0	12.0	14.0	13.5	19.5	19.0	22.0	20.5	22.5	22.0	21.5	21.0
30	13.0	13.0	14.0	13.5	20.0	19.0	22.0	21.0	22.5	22.0	21.5	21.0
31	---	---	15.0	14.0	---	---	22.5	21.0	22.5	22.0	---	---
MONTH	13.5	10.5	15.0	12.5	20.0	13.5	22.5	18.5	23.0	21.5	23.0	21.0

11191000 KERN RIVER BELOW ISABELLA DAM, CALIF.

LOCATION.--Lat 35°38'21", long 118°29'02", in SW¼NW¼ sec.30, T.26 S., R.33 E., Kern County, temperature recorder at gaging station on right bank 200 ft (61 m) downstream from highway bridge, 0.6 mi (1.0 km) downstream from Isabella Dam, and 1.6 mi (2.6 km) southwest of town of Lake Isabella.
DRAINAGE AREA.--2,074 mi² (5,372 km²).
PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1963, water years 1964-66 (partial-record station).
Water temperatures: November 1970 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 21.5°C on many days during August and September.
Period of record:
Water temperatures: Maximum, 24.5°C Sept. 3, 1971; minimum (1970-73), 4.0°C Jan. 4, 1972, Feb. 1, 1973.
REMARKS.--Recorder malfunction Jan. 15-24, Apr. 10-18, Sept. 16-18.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	18.5	16.0	14.0	10.0	9.0	9.5	8.0	7.5	6.0	8.5	8.0
2	18.5	18.5	16.5	14.0	11.0	8.5	9.5	7.0	9.0	5.5	8.0	8.0
3	18.5	18.5	16.0	13.0	10.0	8.0	9.0	6.5	9.5	5.5	8.0	8.0
4	18.5	18.0	15.0	12.5	10.0	8.0	7.0	5.5	9.5	5.5	8.5	8.0
5	18.5	18.0	15.0	12.0	11.0	8.0	9.0	7.0	7.0	6.0	8.5	8.0
6	18.5	18.0	16.0	11.5	11.0	8.0	8.0	7.5	7.5	6.5	8.0	8.0
7	18.0	17.5	16.0	12.5	10.5	8.0	8.0	7.5	7.5	6.5	8.5	7.5
8	18.0	16.0	15.5	12.0	11.0	8.0	10.0	7.5	8.0	6.0	9.0	7.5
9	19.0	16.5	15.0	11.5	11.0	8.0	10.0	7.0	8.0	7.0	10.0	7.0
10	19.0	15.5	16.5	12.0	10.5	8.0	9.5	6.5	7.5	6.5	10.5	6.5
11	18.5	14.5	14.5	12.5	10.5	8.5	8.0	6.5	7.5	6.0	8.5	8.0
12	18.5	15.0	15.0	12.5	11.5	8.5	9.0	7.5	7.5	7.0	8.5	8.0
13	19.0	15.0	13.0	11.5	10.0	9.5	10.0	6.5	7.5	7.0	8.5	8.0
14	19.0	15.0	14.0	11.5	11.5	9.0	9.5	6.0	7.5	6.5	8.5	8.0
15	19.0	15.0	13.5	11.0	11.5	8.5	---	---	7.5	7.0	9.0	8.0
16	19.0	15.0	13.0	10.5	11.5	9.0	---	---	8.0	7.5	9.0	8.0
17	18.5	14.5	14.5	12.0	11.5	8.5	---	---	7.5	7.0	9.5	8.0
18	18.5	14.5	13.0	11.5	12.0	9.0	---	---	7.5	7.5	9.0	8.0
19	18.5	15.0	12.5	10.5	11.0	8.5	---	---	7.5	7.5	9.0	8.0
20	18.5	15.0	12.5	10.0	10.5	8.5	---	---	7.5	7.5	9.0	8.5
21	18.0	15.0	11.0	10.0	9.5	8.5	---	---	7.5	7.5	9.0	8.0
22	17.5	14.5	12.0	9.5	10.0	9.0	---	---	7.5	7.5	9.5	8.5
23	17.0	15.5	12.0	10.0	9.5	9.0	---	---	8.0	7.5	9.5	8.5
24	17.0	13.5	10.0	9.0	11.0	8.5	---	---	8.0	8.0	10.0	8.5
25	17.5	14.5	10.5	9.0	11.0	8.5	8.0	5.0	8.5	8.0	9.5	9.0
26	18.0	14.0	11.0	9.0	11.0	8.5	6.5	5.5	8.0	8.0	13.5	9.0
27	18.0	14.0	11.5	8.5	10.5	9.0	8.5	5.0	8.0	8.0	13.0	9.0
28	18.0	13.5	12.0	9.0	11.0	9.5	8.5	5.5	8.0	8.0	12.5	9.0
29	18.0	14.0	11.0	9.0	12.0	9.5	8.5	5.5	---	---	13.0	9.0
30	17.5	13.5	12.0	8.5	11.5	8.5	9.0	5.5	---	---	12.0	9.0
31	17.5	13.5	---	---	10.0	8.5	8.5	5.5	---	---	13.0	8.5
MONTH	19.0	13.5	16.5	8.5	12.0	8.0	---	---	9.5	5.5	13.5	6.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	8.5	12.5	12.0	14.0	13.5	17.0	16.0	20.0	19.5	21.0	21.0
2	12.5	9.0	12.0	12.0	14.5	13.5	17.5	16.5	20.0	19.0	21.0	21.0
3	13.5	9.5	12.5	12.0	14.5	13.5	17.5	16.0	20.0	19.5	21.5	21.0
4	14.0	9.0	12.5	12.0	14.5	14.0	17.0	16.5	20.0	19.5	21.0	21.0
5	13.5	9.0	13.0	12.5	14.5	14.0	17.5	16.5	20.0	19.5	21.5	21.0
6	13.5	9.5	13.0	12.5	15.0	14.0	17.5	17.0	20.5	19.5	21.0	21.0
7	14.0	9.0	13.0	12.5	15.0	14.0	17.5	16.5	20.0	19.5	21.5	21.0
8	14.5	9.5	13.0	12.5	15.5	14.5	17.5	17.0	20.0	19.5	21.5	21.0
9	11.5	9.0	13.0	12.5	15.0	14.5	17.5	17.0	20.5	19.5	21.5	21.0
10	---	---	13.0	12.5	15.0	14.5	17.5	17.0	20.5	20.0	21.5	21.0
11	---	---	13.5	13.0	15.5	14.5	18.0	17.0	20.5	20.0	21.5	21.0
12	---	---	13.5	13.0	15.5	14.5	18.5	17.0	21.0	20.0	21.5	21.0
13	---	---	13.5	13.0	16.0	15.0	18.5	17.0	20.5	20.0	21.0	21.0
14	---	---	13.5	13.0	16.0	15.0	18.0	17.0	21.0	20.0	21.0	21.0
15	---	---	14.0	13.0	16.0	15.0	18.5	17.5	21.0	20.0	21.0	21.0
16	---	---	14.0	13.5	15.5	15.0	18.5	17.5	21.0	20.0	---	---
17	---	---	14.0	13.5	16.5	15.0	18.5	17.5	21.0	20.0	---	---
18	---	---	14.0	14.0	16.0	15.0	19.0	17.5	21.0	20.0	---	---
19	11.0	11.0	14.0	13.5	16.0	15.5	18.5	18.0	21.0	20.5	21.5	21.5
20	11.5	11.0	14.0	13.0	16.0	15.5	19.0	17.5	21.0	20.5	21.5	21.0
21	12.0	11.0	13.0	12.0	16.5	15.5	19.0	17.5	21.0	20.5	21.5	21.0
22	12.0	11.5	12.5	12.0	16.5	15.5	19.5	18.0	21.0	21.0	21.5	21.0
23	12.0	11.5	12.5	12.0	16.0	14.5	19.0	16.5	21.0	20.5	21.5	21.0
24	11.5	11.5	13.0	12.0	17.0	15.5	19.0	18.5	21.0	21.0	21.5	21.0
25	12.0	11.0	13.0	12.0	16.0	16.0	19.5	17.0	21.0	20.5	21.5	21.5
26	12.0	11.5	13.0	12.5	17.0	15.5	19.0	18.5	21.0	21.0	21.5	21.5
27	12.0	11.5	13.0	12.5	17.0	16.0	19.5	18.5	21.0	21.0	21.5	21.5
28	12.0	11.5	13.5	12.5	17.0	16.0	20.0	18.5	21.0	21.0	21.5	21.5
29	12.0	12.0	13.0	13.0	17.0	16.0	20.0	18.0	21.5	21.0	21.5	21.5
30	12.5	12.0	14.0	13.0	17.0	16.0	20.0	18.0	21.5	21.0	21.5	21.5
31	---	---	14.0	13.5	---	---	20.0	19.0	21.0	21.0	---	---
MONTH	---	---	14.0	12.0	17.0	13.5	20.0	16.0	21.5	19.0	21.5	21.0

11203200 TULE RIVER NEAR SPRINGVILLE, CALIF.

LOCATION.--Lat 36°06'02", long 118°52'07", in NE¼SW¼ sec.17, T.21 S., R.29 E., Tulare County, temperature recorder at gaging station 10 ft (3 m) downstream from highway bridge, 3.5 mi (5.6 km) southwest of Springville, and 4.1 mi (6.6 km) upstream from Success Dam.
DRAINAGE AREA.--247 mi^2 (640 km^2).
PERIOD OF RECORD.--Chemical analyses: November 1963 to July 1966.
Water temperatures: October 1965 to September 1967, October 1968 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 29.0°C July 26-28; minimum, 5.0°C Jan. 3.
Period of record:
Water temperatures: Maximum, 35.5°C July 1, 1972; minimum (1966-67, 1969 to current year), 2.5°C Jan. 5-8, 1971.
REMARKS.--Prior to Mar. 20, 1968, gage was located 1.9 mi (3.1 km) upstream.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	9.5	17.0	13.5	18.0	16.5	25.5	22.5	28.5	25.5	26.5	22.5
2	10.0	9.5	16.5	14.5	19.0	16.5	25.5	22.5	28.5	25.0	27.0	23.0
3	10.0	9.0	16.0	13.5	20.0	17.0	25.5	22.5	28.0	25.5	27.0	23.0
4	11.5	8.5	15.5	14.5	20.5	18.0	26.0	23.0	27.0	25.5	27.0	23.5
5	13.0	10.0	15.5	14.0	20.5	18.0	26.0	23.0	28.0	25.0	27.0	23.5
6	12.0	10.5	16.5	14.0	20.5	18.5	25.5	22.5	28.5	25.0	27.5	23.5
7	13.0	10.5	17.5	15.0	20.5	18.5	25.0	22.0	28.5	25.5	27.5	23.5
8	13.0	11.0	18.0	16.0	20.5	18.0	25.0	22.0	27.0	24.0	26.5	24.0
9	12.5	10.0	17.5	15.5	20.5	17.5	25.0	22.0	27.5	23.5	26.5	23.0
10	11.0	9.5	16.5	14.5	20.5	18.0	23.5	22.0	27.5	24.0	26.5	23.0
11	12.0	9.5	17.0	14.5	21.5	18.5	23.5	20.5	28.0	24.5	26.0	23.0
12	13.0	11.0	17.0	15.0	21.5	19.0	24.5	21.0	27.5	24.5	26.0	23.0
13	13.5	11.5	16.0	14.0	21.5	19.0	25.0	22.0	27.0	24.0	25.0	22.0
14	14.0	11.5	16.0	13.5	21.5	19.0	24.5	22.5	26.5	23.5	25.0	21.5
15	14.0	12.0	16.0	14.0	21.5	19.5	25.5	22.5	26.5	23.0	25.0	21.5
16	14.0	11.5	15.5	13.5	21.5	19.0	25.5	22.5	26.5	22.5	25.0	21.5
17	14.0	12.0	13.5	12.0	21.0	18.5	25.5	22.5	26.0	23.0	24.5	21.5
18	13.0	11.5	12.5	11.5	21.0	18.5	26.0	22.5	26.0	23.0	25.0	21.0
19	11.5	10.5	13.0	11.0	21.0	18.5	26.5	23.0	25.5	22.5	25.0	21.0
20	12.5	10.5	14.0	10.5	21.0	18.5	27.0	23.5	25.5	22.0	24.5	21.0
21	14.0	11.0	15.5	12.5	22.5	19.5	27.0	24.0	26.0	22.0	24.5	21.0
22	14.0	12.0	17.0	14.0	23.5	20.5	27.0	24.0	26.5	23.0	24.5	21.0
23	13.0	11.5	16.5	15.0	23.5	21.0	27.5	24.5	27.0	23.0	24.5	21.0
24	12.5	11.5	18.0	14.5	24.0	21.0	27.5	25.0	27.5	23.5	24.0	21.5
25	12.0	10.0	19.0	16.0	23.0	20.5	28.0	25.0	27.0	23.0	24.0	21.0
26	12.0	9.5	19.5	17.0	23.0	20.5	29.0	25.5	26.5	22.5	23.0	21.0
27	13.0	9.5	20.0	17.5	23.5	20.5	29.0	25.5	26.5	23.0	23.0	20.0
28	14.0	11.0	19.0	17.0	24.0	21.0	29.0	26.0	26.0	23.0	23.0	20.0
29	15.0	12.0	17.5	16.0	24.5	21.5	27.5	26.0	26.0	22.5	22.0	19.0
30	16.0	13.0	18.0	15.5	25.0	22.0	27.5	25.0	26.0	22.5	21.5	19.0
31	---	---	18.5	16.0	---	---	28.5	25.0	26.5	22.5	---	---
MONTH	16.0	8.5	20.0	10.5	25.0	16.5	29.0	20.5	28.5	22.0	27.5	19.0

11204900 TULE RIVER BELOW SUCCESS DAM, CALIF.

LOCATION.--Lat 36°03'23", long 118°55'22", in NW¼SW¼ sec.35, T.21 S., R.28 E., Tulare County, at gaging station 1,000 ft (305 m) downstream from Success Dam, and 5 mi (8 km) east of Porterville.

DRAINAGE AREA.--393 mi^2 (1,018 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1961 to September 1969, water years 1970 to current year (partial-record station).
Water temperatures: November 1970 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 27.0°C on several days during August and September; minimum, 7.0°C Feb. 20.
Period of record:
Water temperatures: Maximum, 29.0°C (recorded) Sept. 13-15, 1972; minimum, 4.0°C Jan. 5, 1971.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Temperature recorder malfunction Dec. 20 to Jan. 5, Mar. 15 to Apr. 4.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED SODIUM (NA) (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)	TOTAL NITRATE (N) (MG/L)
MAR., 1974										
20...	1235	92	22	11	102	0	84	--	4.7	.20
JULY										
17...	1230	437	18	8.4	80	0	66	.0	5.2	.32

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
MAR., 1974										
20...	138	.19	34.3	79	0	200	8.4	14.5	10.4	0
JULY										
17...	110	.15	130	59	0	125	7.1	--	10.1	100

11204900 TULE RIVER BELOW SUCCESS DAM, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.0	21.5	18.0	17.0	13.0	12.5	---	---	9.5	9.0	10.0	9.5
2	24.5	20.5	18.5	17.0	13.0	11.5	---	---	9.5	9.0	11.0	9.5
3	24.5	20.5	19.0	15.0	12.5	11.0	---	---	10.0	8.5	10.0	9.5
4	24.0	21.0	18.5	14.5	12.5	11.0	---	---	10.0	9.0	11.0	9.5
5	24.0	20.5	18.0	14.0	12.0	10.5	---	---	9.0	8.5	10.0	9.5
6	23.0	20.0	18.5	14.5	12.0	10.5	10.0	8.0	9.5	8.5	10.0	9.0
7	23.0	20.0	18.5	14.5	12.0	10.0	10.0	8.5	10.0	8.5	10.5	9.5
8	22.0	19.0	19.0	14.5	11.0	11.0	8.5	8.5	10.0	8.5	10.5	9.5
9	21.0	20.0	18.5	14.5	11.5	11.0	9.0	8.5	10.0	8.5	10.5	9.5
10	20.5	19.5	19.0	15.0	11.0	10.5	8.5	8.5	10.0	8.5	10.5	10.0
11	20.5	19.5	16.5	15.5	11.5	10.5	8.5	8.5	10.0	8.5	10.0	9.5
12	20.5	18.5	20.5	15.5	11.5	9.5	9.0	8.0	9.5	8.5	10.5	9.5
13	21.0	19.0	18.5	13.0	11.5	9.5	9.0	8.5	15.0	8.5	10.0	10.0
14	20.5	18.5	19.5	12.5	11.0	10.0	9.5	8.5	15.0	7.5	10.5	9.5
15	20.5	18.0	17.5	11.5	11.5	10.0	9.5	8.5	18.5	10.0	---	---
16	20.5	18.0	14.5	10.5	11.5	9.5	9.5	8.5	13.5	8.5	---	---
17	20.0	18.5	17.5	13.0	11.5	9.5	9.5	9.0	13.5	8.5	---	---
18	20.0	18.5	16.5	12.5	11.5	10.0	10.5	9.0	16.5	7.5	---	---
19	20.5	17.5	15.0	9.5	12.0	10.5	9.5	9.0	13.5	9.5	---	---
20	20.5	18.5	14.5	9.5	---	---	10.0	9.0	17.5	7.0	---	---
21	20.0	18.5	15.5	9.5	---	---	10.0	9.5	19.5	7.5	---	---
22	19.5	19.0	16.0	9.5	---	---	10.0	9.0	15.0	10.5	---	---
23	19.5	18.5	15.0	10.0	---	---	10.0	9.0	19.5	9.5	---	---
24	20.0	18.0	13.0	10.0	---	---	10.0	9.0	20.0	8.5	---	---
25	19.0	17.0	13.5	10.0	---	---	10.0	9.0	13.0	9.0	---	---
26	19.5	17.5	13.0	13.0	---	---	9.5	8.5	10.5	9.0	---	---
27	19.0	17.5	13.0	13.0	---	---	9.5	8.5	11.5	9.5	---	---
28	18.5	17.0	13.0	12.5	---	---	10.5	9.0	9.5	9.0	---	---
29	19.0	17.5	13.0	12.5	---	---	9.5	9.0	---	---	---	---
30	19.0	17.5	13.0	12.0	---	---	9.5	9.0	---	---	---	---
31	18.5	17.5	---	---	---	---	9.5	8.5	---	---	---	---
MONTH	24.5	17.0	20.5	9.5	---	---	10.5	8.0	20.0	7.0	---	---

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

11208730 EAST FORK KAWEAH RIVER NEAR THREE RIVERS, CALIF.

LOCATION.--Lat 36°27'05", long 118°47'15", in NW¼NW¼ sec.14, T.17 S., R.29 E., Tulare County, temperature recorder at gaging station on left bank just downstream from diversion dam, and 6.6 mi (10.6 km) east of Three Rivers.
DRAINAGE AREA.--85.8 mi^2 (222.2 km^2).
PERIOD OF RECORD.--Chemical analyses: July 1968 to September 1971.
Water temperatures: June 1968 to current year.
Sediment records: Water years 1968-71 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 21.5°C Aug. 1-4; minimum, 1.0°C Jan. 3, 4, 10.
Period of record:
Water temperatures: Maximum, 22.0°C on several days in 1972; minimum, 0.5°C on several days in 1970 and 1971.
REMARKS.--Records furnished by Southern California Edison Co.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	13.5	9.0	9.0	5.5	5.0	4.5	3.0	4.5	4.5	6.5	5.5
2	14.0	13.0	9.0	9.0	5.0	3.5	3.0	2.0	4.5	3.5	6.5	4.0
3	13.0	11.0	9.0	9.0	3.5	3.5	2.0	1.0	3.5	3.0	4.0	3.0
4	11.5	10.5	9.0	7.0	3.5	3.5	1.5	1.0	4.0	3.5	4.0	1.5
5	11.5	11.0	7.0	6.0	3.5	3.5	2.0	1.5	4.0	3.5	5.5	3.5
6	11.5	11.0	6.0	6.0	3.5	3.5	2.0	2.0	3.5	1.5	6.0	4.5
7	11.0	11.0	6.5	6.0	4.0	3.5	3.0	2.0	3.0	1.5	6.0	5.5
8	11.0	11.0	7.0	6.5	4.0	4.0	3.5	3.0	3.0	2.0	6.0	5.0
9	11.0	9.5	7.0	7.0	4.0	4.0	3.5	3.5	3.5	3.0	5.5	4.0
10	9.5	9.0	8.0	7.0	4.0	4.0	3.5	1.0	3.5	3.5	6.0	5.0
11	9.5	9.5	9.5	8.0	4.0	4.0	3.0	2.0	3.5	3.0	6.5	5.5
12	9.5	9.5	10.0	9.5	4.5	4.0	4.5	3.0	3.5	3.0	8.0	6.0
13	10.5	9.5	9.5	8.0	5.5	4.5	4.5	4.0	4.0	3.5	8.0	6.0
14	11.5	10.5	8.0	7.0	5.5	5.5	4.0	3.5	3.5	3.0	9.0	6.5
15	11.5	11.0	7.0	6.5	5.5	5.0	5.0	4.0	4.0	3.5	9.0	7.0
16	11.5	11.5	6.5	6.0	5.0	5.0	5.5	5.0	4.5	4.0	9.0	7.0
17	11.5	11.5	8.0	6.0	5.0	5.0	5.5	5.0	4.5	4.5	9.0	6.5
18	11.5	11.5	8.0	6.0	5.0	4.5	6.0	5.5	4.5	3.5	9.0	6.5
19	11.5	11.5	6.0	4.5	4.5	3.5	6.5	6.0	3.5	3.5	9.0	7.0
20	11.5	11.5	4.5	4.5	3.5	3.5	6.5	[illegible]	3.5	3.0	9.0	7.0
21	11.5	11.5	4.5	4.5	4.5	3.5	6.0	[illegible]	4.0	3.0	9.0	8.0
22	11.5	11.0	4.5	4.5	4.5	4.5	5.0	3.5	4.5	4.0	9.0	7.0
23	11.0	11.0	4.5	4.5	4.5	3.5	3.5	3.5	4.5	4.0	8.0	6.5
24	11.0	10.0	4.5	4.5	4.0	3.5	4.0	3.5	4.0	3.5	8.5	6.5
25	10.0	9.5	4.5	4.5	4.0	4.0	4.0	4.0	4.5	4.0	8.5	6.5
26	9.5	9.0	4.5	4.5	4.0	4.0	4.0	3.5	5.0	4.0	8.5	7.0
27	9.0	9.0	4.5	4.0	5.5	4.0	3.5	2.0	5.5	5.0	8.5	8.0
28	9.0	9.0	4.0	4.0	6.0	5.5	3.0	2.0	6.0	5.5	8.0	7.0
29	9.0	9.0	4.5	4.0	6.5	6.0	3.5	3.0	---	---	9.5	6.5
30	9.0	9.0	5.0	4.5	6.5	5.5	3.5	3.0	---	---	9.5	8.0
31	9.0	9.0	---	---	5.5	4.5	4.5	3.5	---	---	8.0	5.5
MONTH	14.0	9.0	10.0	4.0	6.5	3.5	6.5	1.0	6.0	1.5	9.5	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	6.5	12.0	9.0	13.5	9.5	18.0	15.5	21.5	19.5	18.5	17.0
2	8.0	5.0	12.0	9.0	14.0	9.5	18.0	15.5	21.5	19.5	19.0	18.0
3	6.5	5.5	11.0	8.5	15.0	10.0	18.0	15.5	21.5	19.5	19.5	19.0
4	8.5	5.0	11.0	9.0	15.0	10.5	18.5	16.0	21.5	19.5	19.5	19.0
5	9.0	6.5	11.5	8.5	15.0	10.5	18.5	16.5	20.0	18.0	19.5	19.0
6	9.0	6.5	13.5	9.0	15.5	11.5	18.0	15.0	21.0	19.0	20.0	19.5
7	9.5	6.5	14.0	8.5	15.0	11.0	17.0	15.0	21.0	19.5	20.0	19.5
8	10.0	7.0	13.5	9.5	14.5	11.0	16.5	14.0	21.0	18.0	20.0	19.5
9	10.0	5.5	13.0	9.0	15.0	10.5	16.5	14.5	20.0	18.0	20.0	19.5
10	6.5	4.0	12.0	8.5	15.5	11.0	16.5	15.5	20.0	18.5	20.0	19.0
11	9.5	6.0	13.5	8.5	16.5	11.5	15.5	13.5	20.5	19.0	19.5	19.0
12	10.5	8.0	12.0	8.5	16.5	12.0	16.5	14.0	20.5	19.5	19.5	19.0
13	10.5	8.5	11.0	8.0	16.5	12.0	18.0	15.0	20.5	19.0	19.5	18.0
14	10.5	8.5	12.0	8.0	16.5	12.0	18.0	15.5	20.0	18.0	19.0	17.0
15	10.5	8.5	11.5	8.0	16.5	11.5	19.0	16.0	19.0	16.5	18.0	16.5
16	10.5	7.0	10.5	8.0	16.0	13.0	19.0	16.5	18.5	16.5	18.0	16.5
17	11.0	7.0	9.0	6.5	15.0	10.5	18.5	16.0	18.5	16.5	18.0	16.0
18	11.0	5.5	8.0	5.0	14.0	11.0	18.5	16.0	18.5	17.0	18.0	15.5
19	8.0	5.5	5.5	5.0	14.0	10.5	18.5	15.5	18.5	17.0	18.0	16.5
20	8.5	6.5	9.5	5.0	15.0	11.0	19.0	16.0	18.0	16.0	17.0	16.5
21	10.5	6.5	11.5	6.0	16.5	13.0	19.5	18.0	18.0	16.0	18.0	16.5
22	10.5	8.0	12.0	9.0	17.0	14.0	20.0	18.0	18.0	16.5	17.0	16.0
23	10.5	8.0	11.5	9.0	17.0	13.5	20.0	18.5	18.5	17.0	17.0	16.5
24	9.5	7.0	14.0	9.0	16.5	13.0	20.0	19.0	19.0	18.0	17.0	16.5
25	8.0	6.0	14.5	10.0	16.5	13.0	20.0	18.0	19.0	17.0	16.5	16.5
26	8.0	6.0	14.5	9.5	16.0	12.0	20.5	18.5	18.5	16.5	16.5	16.0
27	9.5	6.5	14.5	9.5	16.0	13.0	21.0	19.0	18.5	17.0	16.5	16.0
28	10.5	8.0	13.5	9.5	16.5	13.5	21.0	19.5	19.0	18.0	16.5	16.0
29	11.5	8.5	13.0	8.0	18.0	14.5	21.0	20.0	19.0	18.5	16.0	15.0
30	12.0	9.5	13.5	9.0	18.0	15.5	20.5	19.5	19.0	18.0	15.5	15.0
31	---	---	14.0	9.0	---	---	21.0	18.5	18.5	17.0	---	---
MONTH	12.0	4.0	14.5	5.0	18.0	9.5	21.0	13.5	21.5	16.0	20.0	15.0

11209900 KAWEAH RIVER AT THREE RIVERS, CALIF.

LOCATION.--Lat 36°26'38", long 118°54'09", in SW¼SW¼ sec.13, T.17 S., R.28 E., Tulare County, temperature recorder at gaging station on right bank opposite schoolhouse in Three Rivers, and 0.2 mi (0.3 km) downstream from North Fork Kaweah River.

DRAINAGE AREA.--418 mi^2 (1,083 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1963 to July 1966.
Water temperatures: October 1965 to December 1966, January 1968 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 27.0°C on several days during July to September; minimum, 1.5°C Jan. 3.
Period of record:
Water temperatures: Maximum, 30.0°C July 14, 15, 1972; minimum, 0.5°C Jan. 7, 1971, Dec. 12, 1972.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	16.0	15.0	10.5	9.0	7.0	6.0	4.5	7.0	5.5	9.0	8.0
2	20.0	15.0	14.5	10.5	7.0	5.0	5.5	3.5	8.5	4.5	9.0	6.0
3	19.0	13.5	13.0	9.5	6.5	4.0	5.0	1.5	8.5	4.0	6.5	5.0
4	19.0	13.0	12.0	8.0	6.5	5.5	5.0	3.5	8.5	4.5	8.0	4.0
5	19.5	13.5	11.0	7.0	7.0	5.0	5.0	4.0	7.5	6.0	9.0	4.5
6	18.0	13.5	11.5	8.0	7.0	4.5	5.0	4.0	8.0	5.0	10.5	6.0
7	15.5	13.5	13.5	8.5	8.0	5.0	6.0	5.0	8.0	4.0	10.5	8.0
8	16.0	13.5	14.0	9.0	7.0	5.5	6.5	6.0	8.5	4.0	8.5	6.0
9	16.0	12.0	13.0	9.0	7.0	5.5	6.5	6.0	8.5	4.5	10.0	5.0
10	16.5	11.5	14.0	11.0	8.0	5.5	7.5	5.5	9.5	5.0	11.0	7.0
11	17.0	12.0	13.0	12.0	7.0	5.0	5.5	4.0	9.5	4.5	12.0	7.0
12	17.5	12.5	14.0	11.0	7.5	5.0	8.0	5.5	8.0	4.5	12.0	9.0
13	18.0	12.5	12.0	10.0	7.5	6.5	9.0	6.0	8.0	5.5	12.5	8.5
14	18.5	13.0	11.5	8.5	8.0	7.5	9.0	5.5	7.5	4.0	13.0	8.5
15	19.0	13.5	10.5	8.0	8.5	6.0	10.0	6.0	9.5	5.5	12.5	0.0
16	19.0	13.5	10.0	8.0	9.0	6.0	8.5	7.5	8.0	6.0	12.0	10.0
17	19.0	13.5	10.0	8.5	9.0	6.0	9.5	8.0	7.0	6.0	13.0	9.0
18	19.0	13.5	10.0	7.0	9.0	6.5	9.0	7.5	8.0	4.5	13.0	9.0
19	19.0	13.5	7.5	6.0	7.5	5.0	9.5	8.5	7.0	5.5	13.0	9.5
20	19.0	14.5	7.0	6.0	7.0	4.0	9.0	8.5	8.5	4.0	14.0	9.5
21	18.0	13.5	8.0	6.0	6.5	5.0	8.5	7.5	10.0	5.0	14.0	10.0
22	17.0	13.5	8.0	6.0	8.5	6.5	8.5	6.0	8.0	6.5	12.0	10.0
23	15.5	13.5	8.0	6.5	7.0	5.5	7.5	5.5	10.5	6.5	11.0	9.0
24	15.5	12.0	7.0	6.5	7.5	6.0	8.0	4.5	10.5	5.5	13.0	8.0
25	15.0	11.0	8.0	6.0	7.0	6.0	8.5	5.0	11.0	6.0	11.5	9.5
26	15.5	11.0	8.0	6.0	7.0	5.5	6.5	5.0	10.5	6.0	13.5	9.0
27	15.5	10.5	8.0	5.0	8.0	6.5	7.0	3.5	11.5	7.0	12.5	10.0
28	16.0	10.5	8.5	4.5	10.0	7.5	6.5	3.0	10.0	7.5	10.5	9.0
29	15.5	11.0	8.0	5.5	10.0	8.0	7.0	3.5	---	---	12.5	8.0
30	15.5	10.5	9.5	6.0	9.5	7.5	7.5	4.0	---	---	11.5	10.0
31	15.5	10.0	---	---	7.5	6.0	7.5	4.5	---	---	11.0	7.5
MONTH	21.0	10.0	15.0	4.5	10.0	4.0	10.0	1.5	11.5	4.0	14.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.0	14.5	10.5	15.0	11.0	22.0	17.5	27.0	21.0	26.0	19.0
2	10.0	8.0	13.5	10.5	16.0	11.0	22.0	18.0	27.0	21.5	26.0	19.5
3	9.0	7.5	13.0	9.5	16.5	12.0	22.5	17.5	27.0	21.5	26.0	20.0
4	12.0	7.0	12.5	10.0	16.5	12.5	23.0	18.0	25.0	20.0	26.0	20.0
5	13.0	9.0	13.0	9.5	16.5	12.5	23.0	18.5	26.0	20.0	26.5	20.0
6	12.5	9.0	14.5	10.5	17.0	13.0	22.0	17.5	27.0	21.0	26.5	20.5
7	13.5	9.5	15.0	11.0	16.5	12.5	21.5	16.5	27.0	21.5	27.0	20.5
8	13.5	9.5	15.0	11.0	16.0	12.0	21.0	16.0	26.0	20.0	26.5	20.5
9	12.5	8.0	14.5	10.5	16.0	12.0	21.0	16.0	26.0	20.0	26.5	20.5
10	10.0	6.0	13.5	10.0	16.5	12.0	21.0	17.5	26.5	20.5	26.5	20.5
11	11.5	7.0	14.0	10.0	17.5	13.0	21.0	15.5	27.0	21.0	26.0	20.0
12	14.0	8.0	14.5	10.0	17.5	13.5	22.0	15.5	26.5	21.5	26.0	20.0
13	14.5	10.0	12.5	9.0	18.0	14.0	23.0	16.5	26.0	21.0	25.0	19.5
14	14.0	10.0	13.5	9.0	18.0	14.0	21.5	18.0	25.0	20.0	25.0	18.5
15	14.0	10.0	13.0	9.0	17.5	14.0	23.5	18.0	25.0	19.0	25.0	19.0
16	13.5	9.5	11.5	8.5	17.0	14.0	23.5	18.0	25.0	19.0	25.0	18.5
17	14.0	10.0	9.5	7.0	16.0	13.0	24.0	18.0	25.0	19.0	25.0	18.5
18	12.0	8.5	8.0	6.0	16.5	13.0	24.0	18.0	25.0	19.0	25.0	18.5
19	10.0	6.5	8.0	5.5	16.0	12.5	25.5	18.0	24.5	19.0	25.0	18.5
20	11.5	8.0	11.0	5.5	17.0	13.0	25.0	19.0	24.5	18.0	24.5	18.5
21	13.5	8.0	13.5	8.5	19.0	14.5	25.5	19.5	25.0	18.0	24.5	18.0
22	13.5	10.0	15.0	11.0	20.0	16.0	25.0	20.0	25.5	19.0	24.0	18.0
23	12.5	9.5	13.0	11.0	20.0	16.0	25.5	20.5	26.0	19.5	24.5	18.0
24	11.0	8.5	15.5	10.5	20.0	16.0	24.5	21.0	26.5	20.0	23.0	19.0
25	10.0	7.0	16.0	12.0	19.0	15.0	26.0	20.0	26.0	19.5	23.0	18.0
26	10.5	7.0	16.0	11.5	19.0	14.5	26.0	20.5	26.0	18.5	23.0	18.5
27	12.5	7.0	16.0	11.0	19.5	15.0	27.0	21.0	26.0	19.5	23.0	17.5
28	14.0	8.5	15.0	11.0	20.0	15.5	27.0	21.5	25.5	19.5	23.0	17.5
29	15.0	9.5	13.5	9.5	21.0	16.5	25.0	22.0	25.5	19.5	22.0	16.5
30	15.5	10.5	14.5	10.0	22.0	17.5	26.0	21.5	25.0	19.5	22.0	16.0
31	---	---	15.0	10.0	---	---	25.5	20.0	25.5	19.0	---	---
MONTH	15.5	6.0	16.0	5.5	22.0	11.0	27.0	15.5	27.0	18.0	27.0	16.0

TULARE LAKE BASIN

11210950 KAWEAH RIVER BELOW TERMINUS DAM, CALIF.

LOCATION.--Lat 36°24'51", long 119°00'42", in SE¼SE¼ sec.26, T.17 S., R.27 E., Tulare County, at gaging station 0.6 mi (1.0 km) downstream from Terminus Dam, and 2.2 mi (3.5 km) northeast of Lemoncove.

DRAINAGE AREA.--561 mi^2 (1,453 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1961 to September 1969, water years 1970 to current year (partial-record station).
Water temperatures: November 1970 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 28.5°C on several days during August and September; minimum, 6.5°C Jan. 8, 9.
Period of record:
Water temperatures: Maximum, 28.5°C Aug. 29, Sept. 1, 1972, and on several days in 1974; minimum (1971-72, 1973 to current year), 5.0°C Jan. 9, 10, 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED SODIUM (NA) (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)	TOTAL NITRATE (N) (MG/L)
MAR., 1974										
14...	1240	628	11	4.6	45	0	37	--	.9	.05
JULY										
16...	1200	1830	4.5	1.7	19	0	16	.0	1.9	.07

DATE	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
MAR., 1974										
14...	72	.10	122	34	0	89	7.4	10.5	9.3	0
JULY										
16...	33	.04	163	15	0	35		--	10.5	0

11210950 KAWEAH RIVER BELOW TERMINUS DAM, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	11.5	13.0	11.5	13.5	13.0	16.5	16.0	24.5	24.0	26.5	25.0
2	13.0	10.5	12.5	11.0	14.0	13.0	17.0	16.5	25.0	24.0	26.5	24.5
3	11.0	10.5	12.5	11.0	13.5	13.0	17.0	16.5	25.0	24.5	26.0	24.5
4	12.0	10.0	12.0	11.0	14.0	13.0	17.0	16.5	25.5	24.5	26.5	25.0
5	11.5	10.0	12.5	11.0	15.0	14.0	17.0	16.5	25.5	25.0	26.0	25.0
6	11.0	10.0	12.5	11.0	16.0	14.5	17.0	16.5	26.0	25.0	26.5	24.5
7	11.5	10.0	12.5	11.5	17.5	14.5	17.5	17.0	26.5	25.5	26.5	24.5
8	11.5	10.0	12.5	11.5	16.5	15.0	17.5	17.0	26.5	25.5	28.0	24.5
9	11.0	10.5	12.5	11.0	16.0	15.0	17.5	17.0	27.0	26.0	28.5	23.5
10	12.0	10.5	12.5	11.0	15.5	14.5	17.5	17.0	27.0	26.0	28.5	23.0
11	12.5	10.0	12.5	11.5	15.5	14.5	18.0	17.0	27.5	26.5	28.5	22.5
12	12.0	10.5	13.0	11.5	15.0	14.5	18.0	17.5	27.5	26.5	28.5	23.0
13	12.0	10.5	12.0	11.5	15.0	14.5	18.0	17.5	27.5	27.0	28.0	23.0
14	12.5	10.5	12.5	11.5	15.0	14.0	18.0	17.5	27.5	27.0	28.0	22.5
15	12.5	10.5	12.5	11.5	15.0	14.0	18.5	18.0	27.5	27.0	28.0	23.0
16	12.5	10.5	12.5	11.5	15.0	14.0	18.5	18.0	27.5	26.5	28.0	22.5
17	12.5	10.5	12.5	12.0	15.0	14.5	19.0	18.0	27.5	26.0	28.0	22.0
18	12.0	10.5	12.5	12.0	15.0	14.5	19.0	18.5	27.5	26.0	28.5	22.0
19	12.0	10.5	12.0	11.5	15.0	14.5	19.5	18.5	27.5	25.5	28.0	22.0
20	12.0	11.0	12.0	11.5	15.5	14.5	19.5	19.0	27.0	25.5	28.0	22.0
21	12.5	10.5	12.0	11.5	15.5	15.0	20.0	19.5	27.0	25.5	27.5	21.5
22	12.0	11.0	12.0	11.5	15.5	14.5	20.5	20.0	27.0	25.0	27.5	21.0
23	12.5	11.0	12.0	11.5	15.5	15.0	21.0	20.0	27.0	25.0	27.5	21.5
24	12.0	11.0	12.5	11.5	16.0	15.0	21.0	20.5	27.5	24.5	26.5	22.5
25	12.5	11.0	12.5	12.0	16.0	15.5	22.0	21.0	28.0	24.0	28.0	21.5
26	12.5	11.0	12.5	12.0	16.0	15.5	22.0	21.5	28.5	23.5	26.0	22.5
27	12.5	11.0	12.5	12.0	16.0	15.5	22.5	22.0	28.5	23.5	26.5	21.5
28	12.5	11.0	12.5	12.5	16.5	15.5	23.0	22.5	28.0	23.5	26.5	21.0
29	13.0	11.0	13.0	12.5	16.5	16.0	23.5	23.0	28.0	23.5	26.0	20.5
30	13.0	11.0	13.0	12.5	16.5	16.0	24.0	23.0	26.5	24.0	26.0	20.5
31	---	---	13.0	12.5	---	---	24.0	23.5	26.5	25.0	---	---
MONTH	13.0	10.0	13.0	11.0	17.5	13.0	24.0	16.0	28.5	23.5	28.5	20.5

11213500 KINGS RIVER ABOVE NORTH FORK, NEAR TRIMMER, CALIF.

LOCATION.--Lat 36°51'48", long 119°07'24", in NW¼NE¼ sec.27, T.12 S., R.26 E., Fresno County, temperature recorder at gaging station on right bank at Rogers Crossing, 0.9 mi (1.4 km) upstream from North Fork, 2.9 mi (4.7 km) south of Balch Camp, and 9.6 mi (15.4 km) southeast of Trimmer.
DRAINAGE AREA.--952 mi² (2,466 km²).
PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1955.
Water temperatures: December 1965 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 22.0°C on several days during September; minimum, 2.0°C Jan. 3.
Period of record:
Water temperatures: Maximum (1967 to current year), 27.0°C Aug. 9-11, 1972; minimum, freezing point Dec. 14, 15, 1967.
REMARKS.--Recorder malfunction May 21-24, July 6-23, Aug. 13-26. Clock stopped Sept. 20-25; range in temperature, 18.0°C to 20.0°C.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	16.0	11.5	9.5	8.0	6.5	6.0	4.5	6.5	5.5	8.5	8.0
2	17.5	15.5	11.5	10.0	6.5	5.0	4.5	3.0	6.0	5.0	8.5	6.0
3	16.5	13.5	11.5	9.5	5.5	4.5	3.0	2.0	5.5	4.0	6.5	5.5
4	16.0	13.0	9.5	8.0	6.0	5.5	4.0	3.0	6.0	4.0	6.5	5.0
5	16.0	13.5	8.5	7.0	6.0	5.5	5.0	4.0	6.0	4.5	8.0	5.5
6	16.0	14.0	10.0	8.0	6.0	5.0	4.5	4.5	6.0	4.5	9.0	6.5
7	15.0	14.0	11.5	9.5	6.5	5.0	5.5	4.5	5.0	3.5	9.0	8.0
8	15.5	13.5	11.0	9.5	7.0	6.0	6.0	5.5	5.5	3.5	8.0	7.0
9	14.5	12.5	10.0	8.5	6.5	5.5	6.0	5.5	6.0	4.0	8.5	6.5
10	14.5	12.0	11.5	10.0	6.5	5.0	5.5	4.0	7.0	5.0	9.5	7.5
11	14.5	12.0	12.5	11.5	6.5	5.5	4.5	3.5	7.0	5.0	10.0	8.0
12	14.0	12.0	12.5	9.5	7.0	5.5	6.5	4.5	7.0	5.0	10.5	8.5
13	14.5	12.5	9.5	8.0	7.5	6.5	6.5	5.5	7.5	5.5	10.5	8.5
14	15.0	13.0	9.0	8.0	8.5	7.5	6.0	4.5	6.5	5.0	11.0	8.5
15	15.5	13.5	8.5	7.5	8.0	6.5	7.0	5.5	7.5	5.5	11.0	9.0
16	16.0	13.5	8.5	7.5	7.0	6.0	7.5	7.0	7.5	6.0	10.5	9.5
17	15.5	14.0	9.0	8.0	7.0	6.0	7.5	7.0	8.0	6.0	10.5	9.0
18	15.5	13.5	9.0	7.0	7.0	5.5	8.0	7.0	7.5	5.5	10.5	9.0
19	15.5	13.5	7.0	6.0	5.5	4.5	8.0	7.5	6.5	6.0	11.0	9.0
20	16.0	14.0	6.5	6.0	5.5	4.5	8.0	7.5	7.5	5.5	11.5	9.0
21	15.0	13.5	7.5	6.5	6.5	5.5	7.5	6.5	7.5	5.0	11.5	9.5
22	14.5	13.5	7.0	6.5	7.5	6.5	6.5	5.0	8.5	6.5	11.0	9.0
23	15.0	13.0	7.5	6.5	6.5	5.0	5.5	5.0	8.5	6.5	10.0	8.5
24	14.0	12.0	6.5	6.5	6.5	5.5	6.0	5.0	8.5	6.0	10.5	8.5
25	13.0	11.5	7.0	6.0	6.0	5.5	6.0	5.0	9.0	6.0	10.5	9.0
26	12.5	10.5	7.0	6.0	6.5	5.5	5.5	5.0	9.0	6.5	10.5	9.0
27	12.0	10.0	6.0	5.5	7.5	6.0	5.0	4.0	9.0	7.5	10.5	9.5
28	12.0	10.0	6.0	4.5	8.0	7.5	4.5	3.0	9.0	8.0	10.0	8.0
29	12.0	10.5	6.5	5.0	9.0	8.0	5.0	3.5	---	---	10.0	7.5
30	11.5	10.0	8.0	6.5	8.5	7.0	5.5	4.0	---	---	10.0	8.5
31	11.5	9.5	---	---	7.0	6.0	6.0	4.0	---	---	9.0	7.0
MONTH	18.0	9.5	12.5	4.5	9.0	4.5	8.0	2.0	9.0	3.5	11.5	5.0

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

11216500 NORTH FORK KINGS RIVER ABOVE DINKEY CREEK, AT BALCH CAMP, CALIF.

LOCATION.--Lat 36°54'12", long 119°07'14", in SE¼NE¼ sec.10, T.12 S., R.26 E., Fresno County, Sierra National Forest, temperature recorder at gaging station on left bank, 12 ft (4 m) downstream from bridge at Balch Camp, 300 ft (91 m) upstream from Dinkey Creek, and 9.3 mi (15.0 km) east of Trimmer.
DRAINAGE AREA.--250 mi^2 (648 km^2).
PERIOD OF RECORD.--Water temperatures: September 1967 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 20.0°C July 2, 26-28, Aug. 1; minimum, 3.0°C Jan. 3.
Period of record:
Water temperatures: Maximum, 26.0°C June 22, 23, 25-27, 1968, July 14, 1972; minimum, freezing point Dec. 14-16, 21, 1967.
REMARKS.--Clock stopped Jan. 22-25, Jan. 31 to Feb. 25, Apr. 4 to May 23; range in temperature 5.0°C to 7.5°c, 4.0°C to 7.5°C, and 6.0°C to 17.0°C, respectively.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	13.5	12.0	9.5	7.0	6.0	7.0	5.5	---	---	8.0	6.5
2	16.5	13.0	12.0	9.5	6.5	5.0	5.5	3.5	---	---	8.0	5.5
3	15.0	11.5	11.0	9.0	7.0	6.0	4.5	3.0	---	---	8.5	6.0
4	15.0	11.0	10.0	7.5	7.5	6.5	5.5	4.5	---	---	9.0	5.0
5	15.5	11.5	9.5	7.5	7.5	6.0	6.0	5.0	---	---	10.0	5.5
6	14.5	11.5	11.0	9.0	7.5	5.5	5.5	5.5	---	---	11.0	6.5
7	13.0	12.0	12.0	10.0	8.0	6.0	7.5	5.5	---	---	9.5	8.0
8	14.0	12.0	11.5	9.5	8.0	6.5	8.0	7.0	---	---	8.5	7.5
9	12.5	10.0	11.0	9.0	7.5	6.0	8.0	6.5	---	---	10.5	7.0
10	12.5	9.0	12.0	10.5	7.5	5.5	6.5	5.0	---	---	11.0	7.0
11	13.0	9.5	12.0	11.5	7.0	6.0	6.0	5.0	---	---	12.0	7.5
12	13.0	9.5	12.5	10.5	7.5	6.0	8.0	6.0	---	---	12.0	9.0
13	13.5	10.0	11.0	9.0	8.0	7.0	8.0	6.0	---	---	12.5	8.5
14	14.0	10.5	11.0	9.0	9.0	8.0	7.5	5.5	---	---	14.0	9.5
15	14.0	10.5	10.5	9.0	8.5	7.0	8.0	6.0	---	---	13.0	9.5
16	14.0	11.0	10.5	9.0	8.0	6.5	8.5	7.0	---	---	12.0	10.0
17	14.0	11.0	10.5	9.5	8.0	6.5	10.5	8.5	---	---	13.0	9.5
18	14.0	11.0	11.0	8.5	8.0	6.5	9.5	8.5	---	---	14.0	9.5
19	14.0	11.0	8.5	7.0	7.5	6.0	10.0	9.0	---	---	14.5	9.5
20	14.0	11.5	8.0	7.5	7.0	5.5	9.5	8.5	---	---	15.0	10.0
21	13.0	11.0	9.0	7.5	7.0	6.0	9.0	7.5	---	---	15.0	10.0
22	13.5	11.5	8.0	7.0	8.0	7.0	---	---	---	---	13.0	9.5
23	14.5	12.0	8.0	7.0	7.0	6.0	---	---	---	---	12.0	10.0
24	13.0	10.0	7.5	7.0	7.5	6.5	---	---	---	---	13.0	9.0
25	12.5	10.0	7.0	5.5	7.0	6.0	---	---	---	---	11.5	9.5
26	13.0	10.0	8.0	6.0	7.5	6.5	6.0	5.0	8.0	5.0	13.0	10.0
27	12.5	10.0	6.5	4.5	8.0	7.0	6.0	4.0	8.5	6.0	13.5	10.0
28	13.0	10.0	7.0	5.0	9.0	7.5	6.0	3.5	7.5	6.5	11.5	10.0
29	12.5	10.0	7.0	5.5	9.0	8.0	6.5	4.0	---	---	14.0	10.0
30	12.0	9.5	7.5	6.0	8.5	7.0	6.5	4.0	---	---	12.0	10.0
31	12.0	9.0	---	---	7.5	7.0	---	---	---	---	13.0	8.0
MONTH	16.5	9.0	12.5	4.5	9.0	5.0	10.5	3.0	---	---	15.0	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	7.5	---	---	17.0	10.5	19.5	14.0	20.0	15.0	17.5	12.5
2	10.0	7.0	---	---	17.0	10.0	20.0	14.0	19.5	14.0	18.0	13.0
3	10.0	7.5	---	---	17.0	9.5	19.0	14.0	19.0	14.0	18.0	13.5
4	---	---	---	---	17.5	10.0	19.0	14.0	17.0	14.5	18.0	13.5
5	---	---	---	---	17.5	10.5	19.0	14.0	19.5	14.0	18.0	13.5
6	---	---	---	---	18.0	10.5	18.5	13.0	19.5	14.0	18.0	13.5
7	---	---	---	---	18.5	13.0	18.0	12.5	19.5	14.5	18.5	14.0
8	---	---	---	---	17.5	11.5	17.0	13.0	18.0	13.0	18.0	14.0
9	---	---	---	---	18.0	12.0	15.0	13.0	18.5	13.0	18.5	14.0
10	---	---	---	---	18.0	12.0	18.0	13.0	18.5	13.0	18.5	14.5
11	---	---	---	---	19.0	13.0	17.5	12.0	19.0	14.0	18.0	14.0
12	---	---	---	---	19.0	13.0	18.0	11.5	19.0	14.0	18.0	14.0
13	---	---	---	---	19.0	13.0	18.0	12.0	18.5	13.5	17.5	13.5
14	---	---	---	---	19.0	13.5	16.0	13.0	18.0	12.5	17.0	13.0
15	---	---	---	---	18.5	13.0	18.5	13.5	18.0	12.5	17.0	13.0
16	---	---	---	---	18.5	13.0	18.5	13.0	17.5	12.0	17.0	13.0
17	---	---	---	---	17.5	12.0	18.5	12.5	17.5	12.0	17.0	13.0
18	---	---	---	---	17.0	11.5	18.0	12.5	16.5	12.5	17.0	13.5
19	---	---	---	---	17.0	11.0	18.5	12.5	17.0	12.0	17.5	13.5
20	---	---	---	---	17.0	11.0	19.0	13.5	17.5	12.0	17.0	13.5
21	---	---	---	---	17.5	11.5	19.5	14.0	17.5	12.0	17.0	13.0
22	---	---	---	---	18.0	13.0	19.5	14.5	17.5	12.5	17.0	13.0
23	---	---	---	---	19.0	13.0	19.5	14.0	18.0	12.5	17.0	13.0
24	---	---	10.0	8.0	18.5	13.0	18.0	15.0	18.0	13.0	17.0	13.5
25	---	---	11.0	9.0	18.0	12.5	19.5	14.0	18.0	13.0	17.0	13.5
26	---	---	11.0	9.0	18.0	12.0	20.0	14.5	17.5	12.5	17.0	14.0
27	---	---	10.5	9.0	18.0	12.0	20.0	15.0	18.0	13.0	16.5	13.0
28	---	---	10.5	9.0	18.0	12.0	20.0	15.0	18.0	13.0	16.0	13.0
29	---	---	10.5	8.5	19.0	13.0	18.5	15.5	18.0	13.0	15.5	12.0
30	---	---	17.0	9.5	19.5	14.0	18.0	15.0	16.0	13.0	15.5	12.0
31	---	---	17.0	9.0	---	---	19.0	14.0	17.5	12.5	---	---
MONTH	---	---	---	---	19.5	9.5	20.0	11.5	20.0	12.0	18.5	12.0

11218500 KINGS RIVER BELOW NORTH FORK, NEAR TRIMMER, CALIF.

LOCATION.--Lat 36°53'04", long 119°09'07", in NW¼SW¼ sec.16, T.12 S., R.26 E., Fresno County, temperature recorder on right bank 1 mi (2 km) downstream from gaging station, 1.8 mi (2.9 km) downstream from North Fork, 2.2 mi (3.5 km) southwest of Balch Camp, and 7.7 mi (12.4 km) southeast of Trimmer.

DRAINAGE AREA.--1,342 mi^2 (3,476 km^2), at gaging station.

PERIOD OF RECORD.--Chemical analyses: October 1955 to July 1963, water years 1964-66 (partial-record station), October 1967 to September 1969, water years 1970, 1973 to current year (partial-record station).
Water temperatures: October 1966 to current year.

EXTREMES.--Current year:
Water temperatures: Minimum, 2.5°C Jan. 27-30.
Period of record:
Water temperatures: Maximum (1966-73), 24.0°C July 31, 1971; minimum, freezing point on several days in 1966 and 1967.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Samples collected at gaging station 1 mi (2 km) upstream. Temperature subject to fluctuation because of powerplant operation upstream. Stream temperature affected by backwater from Pine Flat Lake Apr. 26 to July 23.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)
OCT.												
10...	1445	331	--	--	--	--	--	--	.01	.00	.10	.00
MAR.												
13...	1415	1320	5.6	3.2	23	0	19	.0	.00	--	--	--
MAY												
15...	1300	8510	--	--	--	--	--	--	.04	.00	.02	.01

DATE	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
OCT.											
10...	.00	--	--	--	--	--	50	7.2	14.0	12.4	--
MAR.											
13...	--	47	.06	168	16	0	50	7.4	11.0	9.2	0
MAY											
15...	.00	--	--	--	--	--	15	7.1	11.5	11.3	--

11218500 KINGS RIVER BELOW NORTH FORK, NEAR TRIMMER, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	15.5	12.5	10.5	7.0	5.5	5.5	4.0	5.0	3.0	5.5	5.0
2	18.0	15.0	11.0	10.5	7.0	5.0	5.5	3.5	5.0	3.0	6.0	4.0
3	17.5	14.0	12.5	10.5	7.0	5.0	4.0	3.0	5.0	3.0	5.0	3.5
4	17.0	13.5	11.5	9.0	6.5	5.5	4.5	3.5	5.5	3.0	5.5	3.0
5	17.0	13.5	11.0	8.5	7.5	5.5	4.5	4.0	5.0	3.5	6.5	3.5
6	16.0	13.5	11.0	9.5	8.0	5.5	4.0	4.0	5.5	3.5	7.5	4.5
7	14.5	12.5	12.5	10.0	8.0	5.0	5.0	4.0	5.5	3.0	7.0	5.5
8	14.5	12.0	12.0	10.0	8.0	6.0	6.0	5.0	5.5	3.5	5.5	5.0
9	13.5	11.5	12.0	9.0	7.5	5.5	6.0	4.0	5.5	3.5	8.5	5.5
10	13.5	11.5	12.0	10.0	8.0	5.5	5.5	4.0	5.5	3.5	7.5	5.5
11	13.5	11.0	11.0	10.5	7.0	5.5	4.0	3.5	5.5	3.5	8.5	5.5
12	13.5	11.5	11.5	9.0	7.0	6.0	6.0	4.5	5.0	3.5	7.5	6.0
13	16.5	12.5	10.5	9.0	6.5	6.0	6.0	4.0	5.5	3.5	7.0	6.0
14	14.0	12.0	9.5	8.5	7.5	6.0	5.5	3.5	5.5	3.5	8.5	6.0
15	14.5	12.5	9.5	7.5	7.5	5.5	6.0	4.0	5.5	3.5	8.5	6.5
16	15.0	12.0	9.0	7.5	7.5	5.0	5.0	4.5	5.0	3.5	7.5	6.5
17	14.5	12.5	9.0	8.5	7.0	5.5	6.5	4.5	5.5	3.5	8.5	6.5
18	16.5	11.5	8.5	7.0	7.5	5.0	5.5	4.5	5.5	3.5	8.5	6.0
19	14.5	11.5	8.0	6.0	6.5	4.5	6.5	5.0	5.0	4.0	9.0	6.5
20	16.5	12.5	7.5	6.5	6.5	4.0	6.0	5.0	6.0	4.0	9.0	7.0
21	15.5	13.0	8.5	6.5	5.5	4.5	5.5	4.5	6.5	4.0	9.0	7.0
22	16.0	12.0	7.5	6.5	7.0	5.0	5.5	3.5	6.0	4.5	8.5	7.0
23	14.0	11.5	8.0	6.0	6.5	4.5	5.0	3.5	7.0	4.5	8.5	7.0
24	13.0	11.0	6.5	6.0	6.5	5.0	5.0	3.0	7.0	4.0	9.0	7.0
25	13.0	11.0	7.5	5.5	6.5	5.0	5.0	3.0	7.0	4.5	8.0	7.0
26	14.0	11.0	7.5	6.0	6.5	5.0	3.5	3.0	6.5	4.5	8.0	7.0
27	13.5	11.0	7.0	5.0	6.5	5.5	4.5	2.5	6.0	5.0	8.5	7.0
28	14.0	11.0	7.5	5.0	6.5	6.0	4.5	2.5	5.0	5.0	8.0	7.0
29	13.5	11.0	7.0	5.0	8.0	5.5	4.0	2.5	---	---	8.0	6.5
30	13.5	10.5	7.5	6.0	7.5	6.0	5.0	2.5	---	---	8.0	7.0
31	13.5	10.0	---	---	6.0	5.0	5.0	3.0	---	---	8.0	6.0
MONTH	18.5	10.0	13.0	5.0	8.0	4.0	6.5	2.5	7.0	3.0	9.0	3.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.5	---	---	---	---	---	---	13.5	11.5	15.5	13.0
2	8.0	6.5	---	---	---	---	---	---	13.5	11.5	18.0	14.0
3	8.0	6.0	---	---	---	---	---	---	14.5	12.0	16.0	13.5
4	8.0	6.0	---	---	---	---	---	---	14.5	12.0	16.0	13.0
5	9.0	7.0	---	---	---	---	---	---	14.0	11.5	18.5	13.5
6	9.0	7.5	---	---	---	---	---	---	14.5	12.5	15.5	13.5
7	9.0	8.0	---	---	---	---	---	---	14.5	12.5	20.5	13.5
8	9.0	8.0	---	---	---	---	---	---	14.0	12.5	20.5	17.0
9	8.5	6.5	---	---	---	---	---	---	14.5	12.0	20.5	15.0
10	7.0	6.0	---	---	---	---	---	---	15.0	12.5	16.0	14.5
11	8.0	6.0	---	---	---	---	---	---	17.5	14.0	16.0	14.0
12	8.5	7.5	---	---	---	---	---	---	16.0	13.0	15.5	14.0
13	8.5	8.0	---	---	---	---	---	---	14.0	12.5	15.5	13.5
14	8.5	8.0	---	---	---	---	---	---	16.0	12.0	16.5	14.5
15	9.0	8.0	---	---	---	---	---	---	14.5	12.0	16.5	14.5
16	8.5	8.0	---	---	---	---	---	---	14.0	12.5	16.0	14.0
17	9.0	8.0	---	---	---	---	---	---	15.0	12.5	16.0	14.0
18	9.0	7.0	---	---	---	---	---	---	14.5	13.0	16.5	14.0
19	7.0	6.5	---	---	---	---	---	---	14.5	12.5	16.0	14.0
20	8.0	7.0	---	---	---	---	---	---	14.0	12.5	16.5	14.0
21	9.0	7.5	---	---	---	---	---	---	14.0	12.5	17.0	14.5
22	9.0	8.5	---	---	---	---	---	---	14.5	12.5	17.0	15.0
23	9.0	8.0	---	---	---	---	---	---	15.0	13.0	17.0	14.5
24	8.0	7.0	---	---	---	---	15.0	11.5	15.5	13.5	17.0	14.5
25	8.0	6.5	---	---	---	---	16.5	12.0	15.5	14.0	20.0	15.0
26	---	---	---	---	---	---	14.0	12.0	16.0	12.0	16.5	14.5
27	---	---	---	---	---	---	14.0	12.0	14.5	12.5	16.5	14.0
28	---	---	---	---	---	---	14.0	12.0	14.0	12.5	16.5	14.0
29	---	---	---	---	---	---	14.0	12.0	14.5	12.5	16.0	14.0
30	---	---	---	---	---	---	13.0	11.0	15.0	12.5	16.0	14.0
31	---	---	---	---	---	---	13.5	11.5	15.5	12.5	---	---
MONTH	9.0	6.0	---	---	---	---	---	---	17.5	11.5	20.5	13.0

11221500 KINGS RIVER BELOW PINE FLAT DAM, CALIF.

LOCATION.--Lat 36°49'50", long 119°20'07", in SW¼NW¼ sec.2, T.15 S., R.24 E., Fresno County, temperature recorder at gaging station on right bank, 5,200 ft (975 m) downstream from Pine Flat Dam, and 2.9 mi (4.7 km) northeast of Piedra.
DRAINAGE AREA.--1,545 mi^2 (4,002 km^2).
PERIOD OF RECORD.--Chemical analyses: October 1955 to July 1963, water years 1964-66 (partial-record station).
Water temperatures: October 1969 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 20.0°C Oct. 20.
Period of record:
Water temperatures: Maximum (1970 to current year), 23.0°C Sept. 5, 6, 1972; minimum (1969-73), 7.0°C Dec. 23, 24, 26, 1970, Jan. 4, 1971.
REMARKS.--Temperature probe isolated from stream Dec. 1, 2, Jan. 9, 12-25.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	8.0	9.0	9.0	14.5	13.5	17.0	16.0	10.5	10.5	13.0	12.5
2	13.5	9.0	9.0	9.0	14.5	13.5	17.5	16.0	10.5	10.5	13.0	13.0
3	12.0	9.0	9.0	9.0	14.5	13.5	17.5	16.5	10.5	10.5	13.0	13.0
4	10.5	9.0	9.0	9.0	14.5	13.5	18.0	17.0	11.0	10.5	13.0	13.0
5	10.0	9.0	9.0	9.0	14.0	13.5	18.0	17.0	11.0	10.5	13.0	13.0
6	10.5	9.0	9.5	9.0	14.0	13.5	18.0	16.5	11.0	11.0	13.5	13.0
7	12.0	9.0	9.5	9.5	14.0	13.0	17.5	16.5	11.0	11.0	13.5	13.5
8	12.0	9.5	9.5	9.5	14.5	13.5	17.0	17.0	11.0	11.0	13.5	13.5
9	14.5	12.0	9.5	9.5	15.0	14.0	17.0	16.5	11.0	11.0	13.5	13.5
10	15.0	13.5	13.5	9.5	15.0	14.0	17.0	16.0	11.0	11.0	13.5	13.5
11	15.0	14.0	15.5	13.5	15.0	14.0	17.0	16.0	11.0	11.0	14.0	13.5
12	15.0	14.5	16.0	14.5	15.0	14.0	17.5	17.0	11.0	11.0	14.0	14.0
13	15.0	14.5	15.0	14.5	15.0	13.5	18.0	17.0	11.0	11.0	14.0	14.0
14	15.0	14.5	16.0	14.5	14.5	14.0	18.5	17.5	11.0	11.0	14.0	14.0
15	15.0	14.5	15.0	13.5	15.0	14.0	18.5	17.0	11.0	11.0	14.0	14.0
16	15.0	14.0	14.0	13.0	14.5	14.0	18.0	17.0	11.0	11.0	14.0	14.0
17	14.5	12.5	14.0	13.0	14.5	14.0	18.0	11.0	11.0	11.0	14.0	14.0
18	13.0	12.0	14.0	13.0	15.0	14.0	11.0	10.5	11.0	11.0	14.5	14.0
19	13.0	12.0	14.0	13.0	15.0	14.0	10.5	10.5	11.0	11.0	14.5	14.5
20	13.0	12.5	14.5	13.5	15.0	15.0	10.5	10.0	12.0	11.5	14.5	14.5
21	13.0	12.5	14.0	13.5	16.0	15.0	10.5	10.0	12.0	12.0	15.0	14.5
22	13.5	12.5	14.0	13.5	16.0	15.0	10.0	10.0	12.0	12.0	15.0	14.5
23	12.5	11.5	14.0	14.0	15.5	15.0	10.0	10.0	12.0	12.0	15.0	15.0
24	13.0	11.5	14.5	14.0	16.0	15.0	10.0	10.0	12.0	12.0	15.0	15.0
25	13.0	9.0	15.0	14.0	16.0	15.0	10.0	10.0	12.0	12.0	15.0	15.0
26	9.5	9.0	15.0	14.5	16.5	15.5	10.0	10.0	12.0	12.0	15.0	15.0
27	9.5	9.0	16.0	15.0	16.5	15.5	10.0	10.0	12.5	12.0	15.0	15.0
28	9.5	9.0	15.0	14.0	17.0	16.0	10.0	10.0	12.0	12.0	15.0	15.0
29	9.0	9.0	14.0	13.0	17.0	16.5	10.0	10.0	12.5	12.0	15.0	15.0
30	9.0	9.0	14.5	13.5	17.0	16.5	10.0	10.0	12.5	12.5	15.0	15.0
31	---	---	14.5	13.5	---	---	10.5	10.0	12.0	12.5	---	---
MONTH	15.0	8.0	16.0	9.0	17.0	13.0	18.5	10.0	13.0	10.5	15.0	12.5

11247000 SAN JOAQUIN RIVER BELOW KERCKHOFF POWERHOUSE, NEAR PRATHER, CALIF.

LOCATION.--Lat 37°04'45", long 119°33'36", in NE¼NW¼ sec.10, T.10 S., R.22 E., Fresno County, temperature recorder at gaging station on left bank, 1.1 mi (1.8 km) downstream from Kerckhoff powerhouse, 1.4 mi (2.3 km) upstream from Big Sandy Creek, and 3.8 mi (6.1 km) southeast of Prather.
DRAINAGE AREA.--1,480 mi^2 (3,833 km^2).
PERIOD OF RECORD.--Water temperatures: November 1960 to September 1968, January 1970 to September 1974 (discontinued).
EXTREMES.--Current year:
Water temperatures: Maximum, 19.0°C Sept. 27-30; minimum, 5.0°C on many days during January.
Period of record:
Water temperatures: Maximum (1960-66, 1967-68, 1970-74), 29.0°C Sept. 1, 2, 1968; minimum (1960-68, 1970-74), 2.0°C Jan. 29, 1968.
REMARKS.--Twelve temperature observations and recorder chart furnished by Southern California Edison Co. No record Aug. 28 to Sept. 6.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	8.0	10.0	9.5	12.5	12.5	13.5	13.5	16.0	15.5	---	---
2	8.5	8.5	10.5	10.0	12.5	12.5	13.5	13.5	16.0	15.5	---	---
3	8.5	8.0	11.0	10.5	12.5	12.5	13.5	13.5	16.0	16.0	---	---
4	8.5	8.0	11.0	11.0	13.0	12.5	13.5	13.5	16.0	16.0	---	---
5	8.0	8.0	11.0	11.0	13.0	13.0	13.5	13.5	16.0	16.0	---	---
6	8.0	7.5	11.0	11.0	13.0	13.0	13.5	13.5	16.0	16.0	---	---
7	7.5	7.5	11.0	11.0	13.0	13.0	13.5	13.5	16.0	16.0	18.0	18.0
8	7.5	7.5	11.5	11.0	13.0	13.0	13.5	13.0	16.0	16.0	18.0	18.0
9	7.5	7.5	11.5	11.0	13.0	13.0	13.0	13.0	16.0	16.0	18.0	17.5
10	7.5	7.5	11.5	11.0	13.0	13.0	13.5	13.0	16.0	16.0	17.5	17.5
11	8.0	7.5	11.5	11.0	13.0	13.0	13.5	13.0	16.5	16.0	17.5	17.5
12	8.0	8.0	11.5	11.0	13.0	13.0	13.5	13.0	16.5	16.0	17.5	17.5
13	8.5	8.0	11.5	11.0	13.0	13.0	14.0	13.5	16.5	16.0	18.0	17.5
14	8.5	8.5	11.5	11.0	13.0	13.0	14.0	13.5	16.0	16.0	18.0	18.0
15	9.0	8.5	11.5	11.0	13.5	13.0	14.0	14.0	16.0	16.0	18.0	18.0
16	9.0	9.0	11.5	11.5	13.5	13.5	14.0	14.0	16.0	16.0	18.0	18.0
17	9.0	9.0	11.5	11.5	14.0	13.5	14.0	14.0	16.5	16.0	18.5	18.0
18	9.0	9.0	12.0	11.5	14.0	13.5	14.0	14.0	17.0	16.5	18.5	18.5
19	9.0	9.0	12.0	11.5	14.0	13.5	14.5	14.0	17.0	16.5	18.5	18.5
20	9.0	9.0	11.5	11.0	14.0	13.5	15.0	14.5	17.0	16.5	18.5	18.5
21	9.0	9.0	11.5	11.0	14.0	13.5	15.0	14.5	17.0	16.5	18.5	18.5
22	9.5	9.0	11.0	11.0	13.5	13.0	15.0	14.5	17.0	17.0	18.5	18.5
23	9.5	9.5	11.5	11.0	13.5	13.0	15.0	15.0	17.0	17.0	18.5	18.5
24	9.5	9.5	11.5	11.0	14.0	13.5	15.0	15.0	17.0	17.0	18.5	18.5
25	9.5	9.5	12.0	11.5	14.0	13.5	15.5	15.0	17.0	17.0	18.5	18.5
26	9.5	9.5	12.0	11.5	14.0	13.5	15.5	15.0	17.5	17.0	18.5	18.5
27	9.5	9.5	12.5	12.0	14.0	13.5	16.0	15.0	17.5	17.0	19.0	18.5
28	9.5	9.5	12.5	12.5	13.5	13.0	16.0	15.5	---	---	19.0	19.0
29	9.5	9.5	12.5	12.5	13.5	13.5	16.0	15.5	---	---	19.0	18.5
30	9.5	9.5	12.5	12.5	13.5	13.5	16.0	15.5	---	---	19.0	18.5
31	---	---	12.5	12.5	---	---	16.0	16.0	---	---	---	---
MONTH	9.5	7.5	12.5	9.5	14.0	12.5	16.0	13.0	17.5	15.5	19.0	17.5

11257500 FRESNO RIVER NEAR KNOWLES, CALIF.

LOCATION.--Lat 37°14'14", long 119°46'26", in SE¼NW¼ sec.15, T.8 S., R.20 E., Madera County, temperature recorder at gaging station on left bank at Fresno Crossing, 0.1 mi (0.2 km) downstream from Bean Gulch, and 6 mi (9.7 km) northeast of Knowles.

DRAINAGE AREA.--133 mi^2 (344 km^2).

PERIOD OF RECORD.--Water temperatures: July 1971 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 32.0°C July 25; minimum, 3.5°C Jan. 3.
Period of record:
Water temperatures: Maximum, 33.0°C Aug. 11, 1971; minimum, freezing point Jan. 5, 7, 1973.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	16.0	15.0	10.0	9.5	8.5	8.0	7.0	10.0	7.5	9.5	9.0
2	20.0	13.5	14.0	9.5	8.5	6.0	7.0	4.0	8.5	6.5	9.5	8.0
3	19.0	12.0	12.5	8.0	8.0	7.0	4.0	3.5	8.5	6.0	8.5	6.0
4	19.5	12.5	10.5	6.0	8.5	8.0	5.5	4.5	8.5	5.5	9.0	7.5
5	19.5	12.5	10.0	6.0	8.5	7.5	5.5	5.0	7.0	6.0	9.5	7.5
6	18.5	13.5	12.0	9.0	8.5	7.0	6.0	5.5	8.0	5.5	10.0	8.5
7	16.0	15.0	15.0	10.5	8.5	6.5	7.5	6.0	7.5	5.0	10.0	8.5
8	16.0	13.5	15.0	10.0	8.0	7.0	7.5	7.0	8.0	5.0	9.0	8.0
9	17.0	12.0	13.0	9.0	7.5	6.5	7.5	7.0	8.0	5.5	9.5	7.0
10	17.0	11.0	13.5	11.5	7.0	6.0	7.0	6.5	9.0	6.0	9.5	7.5
11	17.0	11.5	13.0	13.0	7.0	6.0	6.5	5.5	9.5	6.0	11.0	8.5
12	18.0	12.0	13.0	12.0	7.0	6.0	8.5	6.5	7.5	6.5	12.5	10.0
13	19.0	13.0	12.0	10.5	8.0	6.5	8.5	7.5	8.0	5.0	12.5	9.0
14	19.5	13.5	11.5	10.5	8.0	7.0	8.0	7.0	8.0	6.0	13.5	10.0
15	19.5	14.0	11.0	10.0	9.0	7.5	9.0	7.5	10.5	7.5	13.5	11.0
16	20.5	14.0	11.0	10.0	9.0	7.0	9.0	8.0	9.5	7.5	13.0	11.5
17	20.0	15.0	11.0	10.5	8.5	7.0	9.5	8.5	8.5	5.5	12.5	10.5
18	20.0	14.0	11.0	9.5	8.5	6.0	9.5	9.0	8.0	5.5	14.0	10.5
19	19.5	14.5	9.5	7.0	7.5	4.5	10.0	9.0	9.0	7.5	14.0	11.0
20	20.5	16.5	8.5	7.5	7.0	4.0	10.0	9.5	8.5	5.5	14.5	11.5
21	19.0	15.0	9.0	7.5	6.5	5.0	9.5	8.0	9.0	6.5	14.0	11.0
22	17.5	15.5	8.0	7.5	8.0	6.0	9.0	7.0	11.5	7.5	13.0	11.5
23	18.0	14.5	8.0	6.5	7.0	5.0	7.5	6.0	10.5	6.5	13.0	10.5
24	16.0	12.0	8.0	7.0	7.0	6.0	7.5	6.0	10.5	6.0	14.5	11.0
25	16.5	11.5	7.5	6.5	6.5	5.5	7.5	6.0	11.5	7.0	12.5	11.5
26	16.5	12.0	8.5	7.0	7.5	5.5	7.5	6.5	10.0	7.5	13.5	11.0
27	16.5	11.0	8.0	6.5	8.5	7.0	7.0	5.0	10.0	7.5	14.0	12.0
28	16.5	10.5	8.0	5.5	9.5	8.5	6.5	4.5	9.5	8.5	13.0	11.0
29	15.5	11.0	8.0	6.0	9.5	9.0	7.0	5.0	---	---	13.5	11.5
30	15.5	10.5	9.0	7.0	9.5	9.0	7.5	5.5	---	---	13.5	12.0
31	15.5	10.0	---	---	9.0	8.5	8.0	6.5	---	---	12.0	10.0
MONTH	21.0	10.0	15.0	5.5	9.5	4.0	10.0	3.5	11.5	5.0	14.5	6.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.5	19.0	15.0	20.0	16.0	27.5	21.5	31.0	23.0	27.5	19.0
2	11.0	8.5	18.0	14.5	21.0	17.0	28.0	21.5	31.0	23.0	28.0	19.5
3	12.5	8.0	17.5	13.0	22.0	17.5	28.0	21.0	31.5	24.0	27.5	19.5
4	13.0	8.5	16.5	13.5	21.5	18.0	28.5	21.5	26.5	24.0	27.5	19.0
5	14.0	10.0	17.5	13.0	22.0	18.0	28.5	21.5	30.5	22.0	28.0	19.0
6	14.5	10.5	19.0	14.5	22.5	18.5	27.5	20.5	31.5	23.0	28.5	20.0
7	15.0	11.0	20.0	15.5	22.5	18.5	27.0	19.5	30.5	22.5	28.5	20.0
8	14.0	11.5	20.5	16.0	21.5	17.5	24.0	20.0	30.0	21.0	27.5	19.5
9	13.0	10.5	19.5	15.5	22.0	17.5	23.0	20.5	29.5	21.0	27.5	19.5
10	11.5	8.0	18.5	14.5	24.0	18.0	25.0	19.5	30.5	22.0	27.5	19.0
11	13.5	8.5	19.5	15.0	25.0	19.5	25.0	18.0	30.0	21.5	27.5	19.0
12	15.0	11.0	19.5	16.0	25.5	20.0	26.5	18.0	29.5	21.0	27.5	19.5
13	16.0	11.5	18.5	14.5	25.5	20.5	28.0	19.5	29.0	20.0	25.5	18.0
14	16.0	12.0	19.0	14.5	26.0	20.5	28.5	20.0	28.5	18.5	25.5	18.0
15	16.5	12.5	19.0	15.0	25.0	20.5	29.0	22.0	28.0	18.5	26.5	18.0
16	16.5	12.5	17.5	14.0	24.5	19.5	28.5	20.0	28.0	19.0	26.5	18.0
17	17.0	13.0	15.5	12.5	22.5	18.0	28.5	19.5	28.0	19.0	26.0	18.0
18	16.0	13.0	14.5	11.0	22.0	17.5	29.5	20.0	28.0	19.0	25.5	18.0
19	13.0	10.0	13.5	10.0	22.0	18.0	30.0	21.0	27.0	18.0	26.0	18.0
20	15.0	11.0	14.5	9.5	22.0	17.0	30.0	22.0	27.0	17.5	26.0	18.0
21	16.0	12.0	16.0	11.0	23.5	18.0	30.0	22.0	28.0	19.0	25.5	18.0
22	16.5	13.0	18.0	13.5	25.0	19.5	30.5	21.5	28.5	19.0	25.5	18.0
23	15.5	13.0	18.0	14.0	25.5	20.0	31.0	22.5	29.0	19.5	25.5	17.5
24	13.0	11.0	19.0	14.0	25.0	19.0	30.0	23.0	29.0	20.5	25.0	17.5
25	13.0	9.0	20.5	15.5	24.5	19.0	32.0	23.5	28.5	20.0	25.0	18.5
26	14.0	10.0	21.5	17.0	24.5	18.0	31.5	24.0	28.5	19.5	24.0	17.5
27	15.0	10.5	21.5	17.5	24.5	18.5	31.5	23.5	28.0	20.0	24.0	17.0
28	16.0	11.5	21.0	17.0	25.0	19.0	30.5	23.0	27.5	19.0	24.0	17.0
29	17.0	12.5	19.5	15.5	27.0	20.5	30.5	24.0	27.5	19.0	23.0	15.5
30	18.0	14.0	19.0	14.5	27.5	22.0	30.0	23.5	25.0	18.5	23.0	15.0
31	---	---	20.0	15.5	---	---	31.0	24.0	27.5	18.5	---	---
MONTH	18.0	8.0	21.5	9.5	27.5	16.0	32.0	18.0	31.5	17.5	28.5	15.0

11258980 CHOWCHILLA RIVER NEAR RAYMOND, CALIF.

LOCATION.--Lat 37°15'36", long 119°56'43", in SE¼SE¼ sec.1, T.8 S., R.18 E., Madera County, temperature recorder at gaging station on right bank, 20 ft (6 m) downstream from County Road 613 bridge, 2,300 ft (701 m) downstream from Chapman Creek, and 3.8 mi (6.1 km) northwest of Raymond.

DRAINAGE AREA.--201 mi^2 (521 km^2).

PERIOD OF RECORD.--Water temperatures: October 1971 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum recorded, 33.0°C July 25; minimum, 4.5°C Jan. 3.
Period of record:
Water temperatures: Maximum recorded, 34.5°C June 28, 1973; minimum, 1.0°C Dec. 12, 1972.

REMARKS.--Recorder malfunction Dec. 8-18. No flow at probe Oct. 1-13, Aug. 1 to Sept. 30.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.0	23.5	17.5	27.5	20.5	29.5	24.0	---	---	---	---
2	13.0	10.5	23.0	17.0	28.5	21.5	29.5	24.0	---	---	---	---
3	13.5	10.0	22.5	16.5	29.5	22.0	29.5	24.0	---	---	---	---
4	14.5	10.5	22.5	17.0	29.0	22.5	30.0	24.5	---	---	---	---
5	15.5	12.0	23.5	17.0	29.0	22.0	29.5	24.0	---	---	---	---
6	15.0	13.0	25.0	18.0	30.0	23.0	29.0	24.0	---	---	---	---
7	15.5	13.5	26.0	19.0	29.0	22.5	28.5	23.0	---	---	---	---
8	15.5	14.0	26.5	19.5	28.5	21.0	27.0	23.0	---	---	---	---
9	14.5	12.5	25.5	19.5	30.0	22.0	26.0	23.5	---	---	---	---
10	13.0	10.0	25.0	18.0	30.5	22.5	27.0	22.0	---	---	---	---
11	14.5	11.0	25.5	18.5	30.0	23.0	26.5	20.5	---	---	---	---
12	17.0	13.0	25.0	19.0	30.5	23.0	28.5	20.5	---	---	---	---
13	17.5	14.0	24.5	18.0	30.5	23.0	29.0	22.0	---	---	---	---
14	18.5	14.5	24.5	17.5	30.5	23.0	29.0	22.5	---	---	---	---
15	19.0	15.0	24.0	17.5	29.5	23.5	29.5	24.5	---	---	---	---
16	19.0	15.0	23.0	16.5	28.5	22.0	28.5	23.0	---	---	---	---
17	19.5	15.5	22.0	16.0	28.0	21.0	29.0	22.5	---	---	---	---
18	18.0	15.5	21.5	15.5	27.0	21.5	30.5	23.5	---	---	---	---
19	16.0	13.5	20.5	15.5	28.0	21.5	31.5	22.5	---	---	---	---
20	18.0	13.5	22.0	15.0	28.5	20.5	31.5	24.5	---	---	---	---
21	19.5	14.0	23.0	15.5	30.0	22.0	31.0	23.5	---	---	---	---
22	19.5	15.5	24.0	17.5	30.5	23.5	31.0	23.0	---	---	---	---
23	18.0	15.5	25.0	18.0	30.0	23.0	31.5	24.0	---	---	---	---
24	16.0	13.5	26.5	19.0	29.5	22.0	32.0	24.5	---	---	---	---
25	16.5	11.5	27.5	20.0	28.5	21.5	32.0	25.5	---	---	---	---
26	18.0	13.0	29.0	21.0	28.0	20.5	32.0	25.5	---	---	---	---
27	19.0	13.0	29.0	22.5	28.5	21.0	31.0	25.0	---	---	---	---
28	20.0	14.0	28.5	22.0	29.0	21.5	29.5	23.5	---	---	---	---
29	21.5	15.0	27.0	20.5	30.5	23.5	28.5	24.0	---	---	---	---
30	23.0	16.5	27.0	19.5	30.5	24.5	28.0	23.0	---	---	---	---
31	---	---	27.5	20.0	---	---	27.5	24.0	---	---	---	---
MONTH	23.0	10.0	29.0	15.0	30.5	20.5	33.0	20.5	---	---	---	---

11264500 MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.
(Hydrologic bench-mark and radiochemical station)

LOCATION.--Lat 37°43'54", long 119°33'28" (unsurveyed), Mariposa County, Yosemite National Park, at gaging station on right bank, 10 ft (3 m) downstream from footbridge at Happy Isles, 0.4 mi (0.6 km) downstream from Illilouette Creek, and 2.0 mi (3.2 km) southeast of Yosemite National Park headquarters.

DRAINAGE AREA.--181 mi^2 (469 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1968 to current year.
Water temperatures: October 1965 to current year.
Sediment records: Water years 1970-71, 1973 to current year (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 17.0°C sometime during period July 9 to Aug. 13; minimum, freezing point Mar. 2-4.
Period of record:
Water temperatures: Maximum (1966 to current year), 18.5°C July 30, 31, Aug. 10, 1971, July 16, 1972; minimum, freezing point on many days during winter period most years.

REMARKS.--Clock stopped Feb. 5-11, Apr. 13 to May 22, May 24 to June 12, July 9 to Aug. 13, Aug. 23-25; range in temperatures, 0.5°C to 2.5°C, 1.0°C to 10.0°C, 6.0°C to 13.0°C, 9.0°C to 17.0°C, and 12.0°C to 14.5°C, respectively.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.											
03...	1100	7.2	8.9	--	50	3.4	.2	2.9	.5	14	0
04...	0800	7.0	--	--	--	--	--	--	--	--	--
NOV.											
20...	0945	222	6.4	--	80	1.9	.2	2.0	.3	8	0
JAN.											
16...	0830	182	8.0	--	70	2.1	.1	1.4	.4	9	0
FEB.											
21...	1535	113	10	--	140	2.3	.3	2.2	.4	10	0
APR.											
10...	0845	274	9.0	--	60	2.1	.0	1.4	.4	7	0
MAY											
23...	0800	1050	5.6	--	--	1.6	.1	1.0	.2	5	0
JUNE											
12...	0915	2430	3.1	--	80	.3	.3	.6	.2	6	0
JULY											
03...	1400	652	3.2	70	--	1.0	.0	.4	.1	5	0
04...	1350	643	3.9	70	--	.7	.1	.5	.2	5	0
05...	0745	634	4.1	80	--	1.8	.0	.5	.2	6	0
AUG.											
15...	0830	99	4.2	--	--	1.5	.0	1.4	.2	9	0
SEP.											
01...	1340	37	--	--	--	--	--	--	--	8	0
01...	1430	37	5.0	90	50	1.2	.2	1.6	.3	8	0
01...	1600	37	--	--	--	--	--	--	--	7	0
01...	1840	36	--	--	--	--	--	--	--	5	0
01...	2300	35	--	--	--	--	--	--	--	5	0
02...	0200	35	--	--	--	--	--	--	--	5	0
02...	0530	34	--	--	--	--	--	--	--	6	0
02...	0830	34	--	--	--	--	--	--	--	6	0
02...	1400	34	5.0	90	50	1.3	.0	1.7	.3	9	0
03...	0800	34	5.1	90	50	1.1	.0	1.7	.3	8	0

11264500 MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.											
03...	11	2.8	5.1	.1	--	.04	.03	.11	--	.10	.21
04...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
20...	7	1.8	1.8	.1	--	.13	.05	.10	--	.08	.18
JAN.											
16...	7	2.1	2.5	.0	--	.07	.07	.07	--	.07	.14
FEB.											
21...	8	.7	2.3	.4	--	.07	.01	.03	--	.00	.03
APR.											
10...	6	3.1	2.0	.1	--	.10	.10	.06	--	.19	.25
MAY											
23...	4	.9	.6	--	.01	.01	.00	.05	.01	.24	.29
JUNE											
12...	5	.4	.0	.0	--	.59	.04	.02	--	.19	.21
JULY											
03...	4	1.1	.8	--	--	--	--	.04	.02	--	--
04...	4	.9	.7	--	--	--	--	.05	.02	--	--
05...	5	.9	.5	--	--	--	--	.07	.00	--	--
AUG.											
15...	7	1.1	.6	.0	.02	.02	--	--	--	--	--
SEP.											
01...	7	--	--	--	--	--	--	--	--	--	--
01...	7	.9	.9	--	--	--	.03	.03	--	.44	.47
01...	6	--	--	--	--	--	--	--	--	--	--
01...	4	--	--	--	--	--	--	--	--	--	--
01...	4	--	--	--	--	--	--	--	--	--	--
02...	4	--	--	--	--	--	--	--	--	--	--
02...	5	--	--	--	--	--	--	--	--	--	--
02...	5	--	--	--	--	--	--	--	--	--	--
02...	7	.8	.7	--	--	--	.03	.02	--	.32	.34
03...	7	1.3	1.1	--	--	--	.05	.02	--	.44	.46

DATE	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO, PHOS-PHORUS (P) (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)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-, NESS (MG/L)
OCT.											
03...	.25	.02	--	--	.02	25	31	.03	.50	9	0
04...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
20...	.31	--	--	--	.03	14	19	.02	8.20	6	0
JAN.											
16...	.21	.02	--	--	.00	23	21	.03	11.7	6	0
FEB.											
21...	.10	.02	--	--	.00	18	24	.02	5.49	7	0
APR.											
10...	.35	.10	--	--	.02	21	22	.03	15.5	5	0
MAY											
23...	.30	.00	.00	.00	.00	14	12	.02	39.7	4	0
JUNE											
12...	.80	.01	--	--	.00	--	8	.01	52.5	2	0
JULY											
03...	--	.00	.00	.03	.00	4	9	.01	7.04	3	0
04...	--	.00	.00	.03	.00	8	10	.01	13.9	2	0
05...	--	.00	.00	.02	.00	7	11	.01	12.0	5	0
AUG.											
15...	--	.03	--	--	--	11	13	.02	2.94	4	0
SEP.											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	.00	--	--	.00	22	14	.03	2.20	4	0
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	.00	--	--	.00	24	14	.03	2.20	3	0
03...	--	.00	--	--	.00	23	15	.03	2.11	3	0

11264500 MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT.											
03...	39	.4	39	7.1	7.5	10.7	B3	--	--	12	20
04...	--	--	--	--	7.5	--	--	--	--	.0	--
NOV.											
20...	42	.4	19	--	2.5	--	--	--	--	--	10
JAN.											
16...	33	.3	22	6.8	3.0	11.0	<1	<1	<1	--	5
FEB.											
21...	39	.4	27	6.5	2.0	13.8	--	--	--	--	10
APR.											
10...	35	.3	22	6.4	1.0	11.2	B9	<1	<1	--	20
MAY											
23...	32	.2	10	6.8	5.5	--	--	--	--	1.8	--
JUNE											
12...	37	.2	7	6.8	9.5	10.6	25	6	7	--	4
JULY											
03...	25	.1	7	6.8	15.5	--	--	--	--	2.5	--
04...	31	.1	7	6.6	15.5	9.2	30	4	5	5.5	--
05...	19	.1	8	6.8	12.5	--	--	--	--	5.0	--
AUG.											
15...	43	.3	18	6.7	11.5	10.5	32	20	B17	2.4	--
SEP.											
01...	--	--	11	7.0	12.5	9.8	--	B5	--	--	--
01...	45	.4	30	--	13.5	--	--	--	--	4.5	--
01...	--	--	11	6.9	12.5	9.5	--	B8	--	--	--
01...	--	--	11	6.7	14.0	8.9	--	B10	--	--	--
01...	--	--	10	6.8	15.5	8.8	--	B5	--	--	--
02...	--	--	10	6.8	14.0	8.8	--	B8	--	--	--
02...	--	--	10	6.7	13.0	9.0	--	B6	--	--	--
02...	--	--	10	6.8	13.0	9.1	--	B14	--	--	--
02...	50	.4	21	--	13.0	--	--	--	--	3.1	--
03...	54	.4	11	6.9	13.0	--	--	--	--	2.1	--

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

BIOLOGICAL ANALYSES, AUGUST 1973 TO SEPTEMBER 1974

BENTHIC INVERTEBRATES 1/

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	ORGANISM COUNT	PERCENT COMPO-SITION
1973				
AUG.				
08...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		1	12.5
	..Diptera	Two-winged beetles		
	...Chironomidae		1	12.5
	....*Tripulidae*		1	12.5
	..Ephemeroptera	Mayflies		
	...Baetidae			
	....*Baetis*		3	37.5
	..Plecoptera	Stoneflies		
	...Chlcroperlidae			
	....*Paraperla*		1	12.5
	..Trichoptera	Caddisflies		
	...Hydropsychidae			
	....*Arctopsyche*		1	12.5
		TOTAL	8	
SEP.				
04...	ARTHROPODA			
	.Insecta			
	..Diptera	Two-winged flies		
	...Rhagionidae			
	....*Artherix*			
	.....*Variegata*		3	37.5
	..Ephemeroptera	Mayflies		
	...Ephemerellidae			
	....*Ephemerella*		1	12.5
	..Plecoptera	Stoneflies		
	...Perlidae			
	....*Acroneuria*		4	50.0
		TOTAL	8	

11264500 MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.--Continued

BIOLOGICAL ANALYSES, AUGUST 1973 TO SEPTEMBER 1974

BENTHIC INVERTEBRATES

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	ORGANISM COUNT	PERCENT COMPOSITION
OCT.				
03...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		2	9.5
	..Diptera	Two-winged flies		
	...Simuliidae	Blackflies	2	9.5
	..Ephemeroptera			
	...Baetidae			
	....*Baetis*		3	14.5
	...Heptageniidae			
	....*Rhithrogena*		2	9.5
	..Plecoptera	Stoneflies		
	...Nemouridae		4	19
	...Perlidae			
	....*Acroneuria*		2	19
	...Perlodidae		2	9.5
	..Trichoptera	Caddisflies		
	...Hydropsychidae			
	....*Arctopsyche*		2	9.5
		TOTAL	21	
1974 AUG.				
15...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		1	20
	..Diptera	Two-winged flies		
	...Chironomidae		1	20
	...Heleidae			
	....*Palpomyia*		1	20
	..Ephemeroptera	Mayflies		
	...Baetidae			
	....*Baetis*		2	40
		TOTAL	5	
SEP.				
02...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		4	23.5
	..Diptera	Two-winged flies		
	...Rhagionidae			
	....*Artherix*			
	.....*variegata*		12	70.5
	..Neuroptera			
	...Corydalidae	Dobsonflies		
	....*Dysmicohermes*			
	.....*crepusculus*		1	6.0
		TOTAL	17	

/1/ Collected with a Surber sampler.

DATE	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL B MG/SQ M	UNCORRECTED PERIPHYTON CHLOROPHYLL A MG/SQ M
AUG. 15...	1.5	.2	1.2
SEP. 02...	1.5	--	--

11264500 MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)
OCT.											
03...	1100	--	--	0	--	--	0	--	--	0	--
MAY											
23...	0800	0	--	0	<10	--	1	0	--	0	<50
JUNE											
12...	0915	--	--	--	--	--	--	--	--	--	--
JULY											
03...	1400	2	0	3	<10	<10	0	0	0	0	<50
04...	1350	9	6	3	<10	<10	0	0	0	0	<50
05...	0745	2	0	3	<10	<10	0	0	0	0	<50
SEP.											
01...	1430	0	0	2	<10	<10	0	0	0	0	<50
02...	1400	0	0	2	<10	<10	0	0	0	0	<50
03...	0800	1	0	3	<10	<9	<1	0	0	0	<50

DATE	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.											
03...	--	0	--	--	1	.1	--	--	--	--	20
MAY											
23...	--	1	<100	--	5	--	--	1.5	40	--	10
JUNE											
12...	--	--	--	--	--	.0	--	.1	--	--	--
JULY											
03...	<50	0	<100	<96	4	.0	.0	.0	0	0	10
04...	<50	0	<100	<98	2	.0	.0	.0	0	0	10
05...	<50	0	<100	<98	2	.0	.0	.0	0	0	0
SEP.											
01...	<49	1	<100	<98	2	.0	.0	.0	20	20	0
02...	<50	0	<100	<99	1	.0	.0	.0	10	10	0
03...	<50	0	<100	<99	1	.0	.0	.0	10	10	0

PERIODIC SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)
JULY					
04...	1350	15.5	643	1	1.7
05...	0745	12.5	634	2	3.4
AUG.					
15...	0800	--	99	2	.53
SEP.					
01...	1430	13.5	37	2	.20
02...	1400	13.0	34	1	.09
03...	0800	13.0	34	1	.09

11264500 MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	8.5	7.0	6.0	3.5	0.5	1.5	1.0	3.0	1.0	2.5	1.5
2	10.5	8.5	6.5	5.5	1.0	0.5	1.0	0.5	1.5	0.5	3.5	0.0
3	9.5	7.0	6.5	3.5	1.5	1.0	1.0	0.5	2.5	1.0	0.5	0.0
4	10.0	7.5	3.5	2.5	2.5	1.5	1.0	0.5	2.5	1.0	1.0	0.0
5	9.5	7.5	4.5	2.5	2.5	1.5	1.5	1.0	---	---	3.0	1.0
6	9.5	7.5	7.5	4.5	3.0	2.0	1.5	1.0	---	---	3.5	1.5
7	8.5	8.5	9.0	7.0	4.0	2.5	1.5	1.0	---	---	2.5	1.5
8	8.5	7.5	7.5	5.0	3.0	2.0	2.0	1.5	---	---	3.0	1.5
9	7.5	6.5	8.0	4.5	3.5	2.0	2.0	1.0	---	---	4.0	1.5
10	7.0	6.0	8.5	7.0	3.5	2.0	1.0	1.0	---	---	4.0	2.0
11	7.5	6.5	8.0	7.0	3.0	1.5	1.5	1.0	---	---	4.5	2.5
12	8.0	7.0	7.0	4.0	3.5	1.5	2.5	1.5	1.5	0.5	5.0	3.5
13	9.5	8.0	5.0	3.5	3.5	3.0	2.0	1.5	1.0	0.5	5.0	2.0
14	9.5	8.5	4.0	3.0	3.5	2.0	3.0	1.5	1.5	1.0	6.5	3.5
15	9.5	8.5	5.0	3.0	3.5	2.0	4.0	3.0	2.5	1.5	6.0	3.5
16	9.5	8.5	5.0	4.0	4.0	2.5	3.5	3.0	2.5	1.0	6.5	4.0
17	9.5	8.5	5.0	4.0	4.0	2.0	4.5	3.0	1.5	0.5	5.5	3.0
18	9.0	8.0	4.0	2.0	2.0	1.0	5.0	3.0	2.5	1.0	5.5	3.0
19	9.0	8.0	2.5	1.0	2.0	1.0	4.5	3.5	2.5	0.5	6.5	3.0
20	10.0	9.0	3.0	2.5	2.5	1.5	4.0	2.5	1.5	0.5	6.0	2.5
21	9.0	8.5	3.0	1.5	3.5	1.5	2.5	1.0	1.5	1.0	5.5	2.5
22	9.0	8.5	1.5	1.0	2.0	1.5	2.5	1.0	2.5	1.5	5.5	2.0
23	8.5	6.5	2.0	1.0	2.0	1.5	3.5	2.0	2.5	1.0	6.0	2.5
24	7.0	6.5	2.5	1.5	3.0	2.0	3.5	2.5	3.0	1.0	6.5	3.0
25	7.0	6.5	1.5	1.0	3.5	2.5	3.0	2.0	3.0	1.0	5.0	3.5
26	7.5	5.5	1.5	1.5	3.5	2.0	2.0	0.5	3.0	1.5	6.5	4.5
27	7.5	5.5	2.5	1.5	3.5	2.0	1.5	0.5	3.0	2.0	5.5	4.5
28	7.5	6.0	3.0	2.0	4.5	3.0	2.0	0.5	3.0	2.0	6.0	3.0
29	6.5	5.0	3.5	2.5	4.5	3.0	2.0	0.5	---	---	7.0	5.0
30	7.0	5.5	4.0	3.5	3.0	1.5	2.0	1.0	---	---	5.5	3.5
31	7.5	6.5	---	---	2.0	1.5	3.0	1.5	---	---	4.5	1.5
MONTH	10.5	5.0	9.0	1.0	4.5	0.5	5.0	0.5	---	---	7.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.0	3.0	---	---	---	---	15.5	12.0	---	---	14.5	12.5
2	3.5	1.0	---	---	---	---	15.5	12.0	---	---	15.0	13.5
3	4.5	1.0	---	---	---	---	15.5	12.0	---	---	15.5	13.5
4	6.0	2.0	---	---	---	---	15.0	12.0	---	---	14.5	13.0
5	6.0	3.5	---	---	---	---	14.5	11.5	---	---	15.0	13.5
6	7.0	3.5	---	---	---	---	14.0	10.5	---	---	15.5	14.0
7	7.0	2.5	---	---	---	---	14.0	11.0	---	---	15.5	14.0
8	5.5	3.5	---	---	---	---	12.5	11.5	---	---	15.0	13.5
9	5.5	2.0	---	---	---	---	---	---	---	---	15.0	13.5
10	5.5	1.0	---	---	---	---	---	---	---	---	14.5	13.5
11	7.5	3.0	---	---	---	---	---	---	---	---	14.5	13.5
12	8.0	4.0	---	---	---	---	---	---	---	---	15.0	14.0
13	---	---	---	---	13.0	8.5	---	---	---	---	14.0	12.5
14	---	---	---	---	12.5	8.5	---	---	13.5	11.0	13.5	12.0
15	---	---	---	---	12.0	8.5	---	---	14.5	11.5	13.5	12.5
16	---	---	---	---	11.0	9.0	---	---	14.0	11.0	13.0	12.0
17	---	---	---	---	11.0	8.0	---	---	14.0	10.5	13.0	11.5
18	---	---	---	---	11.0	8.0	---	---	14.0	11.0	12.5	11.0
19	---	---	---	---	11.0	8.5	---	---	12.5	10.5	13.0	11.5
20	---	---	---	---	12.5	7.5	---	---	13.5	10.0	12.5	11.0
21	---	---	---	---	13.0	9.5	---	---	13.5	11.5	13.0	11.0
22	---	---	---	---	13.5	10.5	---	---	13.5	11.0	13.0	11.5
23	---	---	9.5	6.0	14.0	10.5	---	---	---	---	13.0	11.5
24	---	---	---	---	13.0	9.5	---	---	---	---	12.5	11.0
25	---	---	---	---	13.0	10.0	---	---	---	---	12.5	11.0
26	---	---	---	---	13.0	9.0	---	---	15.0	12.5	13.0	11.0
27	---	---	---	---	14.0	9.5	---	---	15.5	13.0	13.0	11.0
28	---	---	---	---	15.0	11.0	---	---	15.5	13.5	12.5	10.5
29	---	---	---	---	16.0	11.5	---	---	16.0	14.0	11.5	10.0
30	---	---	---	---	15.5	12.5	---	---	15.0	13.0	12.0	10.0
31	---	---	---	---	---	---	---	---	15.0	13.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	15.5	10.0

11266400 MERCED RIVER AT EL CAPITAN BRIDGE, NEAR YOSEMITE VILLAGE, CALIF.

LOCATION.--Lat 37°43'27", long 119°37'50" (unsurveyed), Mariposa County, Yosemite National Park, on right bank upstream side of El Capitan Bridge at El Capitan Meadow, 3.0 mi (4.8 km) southwest of Yosemite Village.

DRAINAGE AREA.--287 mi^2 (743 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1973 to September 1974 (discontinued).

REMARKS.--Discharge obtained from stage-discharge rating at site.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
OCT.										
03...	1400	20	--	--	--	--	--	--	--	20
JAN.										
15...	1500	264	--	--	--	--	--	--	--	--
FEB.										
21...	1510	186	--	--	--	--	--	--	--	14
APR.										
10...	0800	492	--	--	--	--	--	--	--	6
MAY										
22...	1530	1340	6.3	--	--	1.2	.1	1.1	.3	10
JUNE										
12...	1045	--	--	--	--	--	--	--	--	8
JULY										
03...	1315	--	5.2	110	--	1.2	.4	.7	.2	6
04...	1200	--	5.2	110	--	.8	.1	.8	.2	7
05...	0820	--	5.4	110	--	1.6	.0	1.0	.2	7
AUG.										
14...	1500	--	--	--	--	--	--	--	--	9
SEP.										
01...	1230	--	--	--	--	--	--	--	--	11
01...	1400	59	9.1	270	100	4.4	.6	1.9	.7	14
01...	1515	--	--	--	--	--	--	--	--	5
01...	1815	--	--	--	--	--	--	--	--	8
01...	2230	--	--	--	--	--	--	--	--	7
02...	0115	--	--	--	--	--	--	--	--	7
02...	0445	--	--	--	--	--	--	--	--	10
02...	0745	--	--	--	--	--	--	--	--	10
02...	1300	56	8.8	290	70	2.5	.2	1.9	.7	14
03...	0900	56	8.9	200	70	2.5	.0	2.1	.7	26

DATE	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.										
03...	0	16	--	--	--	--	--	--	--	--
JAN.										
15...	--	--	--	--	.02	.03	--	.08	--	.38
FEB.										
21...	0	11	--	--	--	--	--	--	--	--
APR.										
10...	0	5	--	--	--	--	--	--	--	--
MAY										
22...	0	8	.9	.5	.03	.03	.03	.05	.01	.18
JUNE										
12...	0	7	--	--	--	--	--	--	--	--
JULY										
03...	0	5	.8	.8	--	--	--	.04	.02	--
04...	0	6	.3	.2	--	--	--	.05	.02	--
05...	0	6	.4	.1	--	--	--	.04	.01	--
AUG.										
14...	0	7	--	--	--	--	--	--	--	--
SEP.										
01...	0	9	--	--	--	--	--	--	--	--
01...	0	11	1.1	1.7	--	--	.01	.03	--	.02
01...	0	4	--	--	--	--	--	--	--	--
01...	0	7	--	--	--	--	--	--	--	--
01...	0	6	--	--	--	--	--	--	--	--
02...	0	6	--	--	--	--	--	--	--	--
02...	0	8	--	--	--	--	--	--	--	--
02...	0	8	--	--	--	--	--	--	--	--
02...	0	11	1.4	1.8	--	--	.01	.03	--	.06
03...	0	21	1.1	2.0	--	--	.01	.04	--	.06

11266400 MERCED RIVER AT EL CAPITAN BRIDGE, NEAR YOSEMITE VILLAGE, CALIF.--Coninued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (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)
OCT.										
03...	--	--	--	--	--	--	--	--	--	--
JAN.										
15...	.46	.49	.01	--	.01	--	--	--	--	--
FEB.										
21...	--	--	--	--	--	--	--	--	--	--
APR.										
10...	--	--	--	--	--	--	--	--	--	--
MAY										
22...	.23	.26	.01	.00	.02	.01	9	16	.01	32.6
22...	--	--	--	--	--	--	--	--	--	--
JUNE										
12...	--	--	--	--	--	--	--	--	--	--
JULY										
03...	--	--	.01	.01	.04	.01	5	12	.01	--
04...	--	--	.07	.06	.06	.03	5	11	.01	--
05...	--	--	.00	.00	.03	.00	8	12	.01	--
AUG.										
14...	--	--	--	--	--	--	--	--	--	--
SEP.										
01...	--	--	--	--	--	--	--	--	--	--
01...	.05	--	.05	--	--	.00	27	27	.04	4.30
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	.09	--	.01	--	--	.00	27	24	.04	4.08
03...	.10	--	.01	--	--	.00	28	30	.04	4.23

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.										
03...	--	--	--	--	54	7.3	12.0	--	--	--
JAN.										
15...	--	--	--	--	27	6.4	4.0	12.0	--	1.5
FEB.										
21...	--	--	--	--	30	6.5	3.0	--	--	--
APR.										
10...	--	--	--	--	20	6.2	2.0	--	--	--
MAY										
22...	3	0	39	.3	14	6.3	7.5	--	>20	1.4
22...	--	--	--	--	--	--	--	--	<1	--
JUNE										
12...	--	--	--	--	8	6.7	9.5	--	B11	--
JULY										
03...	5	0	24	.1	10	--	15.0	--	--	4.3
04...	2	0	40	.2	10	6.5	15.0	9.3	--	1.4
05...	4	0	34	.2	10	--	13.5	--	--	2.5
AUG.										
14...	--	--	--	--	24	6.5	17.0	9.8	B9	--
SEP.										
01...	--	--	--	--	18	6.9	16.5	7.9	28	--
01...	13	2	22	.2	28	--	18.0	--	--	4.2
01...	--	--	--	--	18	6.5	18.5	8.9	59	--
01...	--	--	--	--	17	6.8	18.0	8.7	52	--
01...	--	--	--	--	17	6.6	17.5	8.2	B16	--
02...	--	--	--	--	15	6.6	17.5	7.7	32	--
02...	--	--	--	--	14	6.8	16.0	7.5	23	--
02...	--	--	--	--	14	6.7	15.0	7.5	24	--
02...	7	0	34	.3	29	--	18.5	--	--	5.6
03...	6	0	39	.4	27	6.4	15.5	--	--	1.4

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

11266400 MERCED RIVER AT EL CAPITAN BRIDGE, NEAR YOSEMITE VILLAGE, CALIF.--Continued

BIOLOGICAL ANALYSES, AUGUST 1973 TO SEPTEMBER 11974

BENTHIC INVERTEBRATES 1/

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	ORGANISM COUNT	PERCENT COMPOSITION
1973				
AUG.				
07...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		1	25
	..Diptera	Two-winged flies		
	...Chironomidae		4	50
	...Tripulidae			
	....*Hexatoma*		1	25
		TOTAL	6	
SEP.				
04...	ARTHROPODA			
	.Insecta			
	..Diptera	Two-winged flies		
	...Chironomidae		4	16.7
	...Tripulidae			
	....*Hexatoma*		3	12.5
	..Ephemeroptera	Mayflies		
	...Baetidae			
	....*Baetis*		3	12.5
	...Ephemerellidae			
	....*Ephemerella*		1	4.2
	..Odanata	Dragonflies		
	...Gomphidae			
	....*Ophiogoniphus*		1	4.2
	..Plecoptera	Stoneflies		
	...Perlodidae			
	....*Isoperla*		10	41.7
	..Trichoptera	Caddisflies		
	...Hydroptilidae		1	4.2
	...Lepidostomatidae		1	4.2
		TOTAL	24	
OCT.				
03...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		3	23
	..Diptera	Two-winged flies		
	...Chironomidae		7	54
	...Tipulidae			
	....*Hexatoma*		3	23
		TOTAL	13	
1974				
AUG.				
14...	ARTHROPODA			
	.Insecta			
	..Diptera	Two-winged flies		
	...Chironomidae		3	42
	...Tipulidae			
	....*Hexatoma*		2	29
	..Ephemeroptera	Mayflies		
	...Ephemerellidae			
	....*Ephemerella*			
	.....*micheneri*		2	29
		TOTAL	7	
SEP.				
02...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		8	30.5
	..Ephemeroptera	Mayflies		
	...Baetidae			
	....*Baetis*		2	7.5
	...Ephemerellidae			
	....*Ephemerella*			
	.....*Micheneri*		5	19.0
	...Siphlonuridae			
	....*Ameletus*		2	7.5
	...Heptageniidae			
	....*Rhithrogena*		4	15.5
	..Plecoptera	Stoneflies		
	...Chloroperlidae			
	....*Hastaperla*		2	7.5
	...Perlodidae			
	....*Arcynopteryx*			
	.....*parallela*		3	11.5
		TOTAL	26	

1/ Collected with a Surber sampler.

11266400 MERCED RIVER AT EL CAPITAN BRIDGE, NEAR YOSEMITE VILLAGE, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)
MAY											
22...	1530	0	--	0	<10	--	1	0	--	0	<50
JULY											
03...	1315	2	0	3	<10	<9	1	0	0	0	<50
04...	1200	1	0	2	<10	<10	0	0	0	0	<50
05...	0820	2	0	4	<10	<10	0	0	0	0	<50
SEP.											
01...	1400	1	1	0	<10	<9	<1	0	0	0	<50
02...	1300	0	0	2	<10	<10	0	0	0	0	<50
03...	0900	0	0	1	<10	<10	0	0	0	0	<50

DATE	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY											
22...	--	1	<100	--	6	1.0	--	1.1	340	--	20
JULY											
03...	<50	0	<100	<98	2	.0	.0	.0	0	0	0
04...	<50	0	<100	<97	3	4.2	4.2	.0	0	0	0
05...	<50	0	<100	<98	2	.0	.0	.0	0	0	0
SEP.											
01...	<48	2	<100	<96	4	.0	.0	.0	10	0	10
02...	<50	0	<100	<98	2	.0	.0	.0	10	10	0
03...	<50	0	<100	<99	1	.0	.0	.0	0	0	0

11266450 EFFLUENT FROM TREATMENT PLANT NEAR YOSEMITE VILLAGE, CALIF.

LOCATION.--Lat 37°43'15", long 119°39'04" (unsurveyed), Maripisa County, Yosemite National Park, at outlet of sewage treatment plant effluent 0.8 mi (1.3 km) northwest of Cathedral Rocks, 1.1 mi (1.8 km) upstream from Pohono Bridge, and 4.1 mi (6.6 km) southwest of Yosemite Village.

PERIOD OF RECORD.--Chemical analyses: November 1973 to September 1974 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
NOV.							
20...	0910	--	9.2	6.8	.20	--	3.1
JAN.							
15...	1400	9.0	9.0	--	.06	--	1.8
FEB.							
21...	1450	--	7.8	7.1	4.9	4.5	.00
APR.							
10...	--	--	--	--	16	16	--
MAY							
22...	1500	7.4	7.4	7.3	.52	.50	2.5
JUNE							
11...	1430	4.9	4.9	2.1	11	8.2	20
JULY							
04...	1145	--	--	--	1.9	2.0	--
AUG.							
14...	1450	25	25	25	4.6	4.6	2.8
SEP.							
02...	1150	--	--	20	10	--	4.0

DATE	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)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.							
20...	3.3	13	3.3	--	--	2.6	--
JAN.							
15...	1.9	11	3.0	--	2.9	--	13
FEB.							
21...	2.9	11	3.7	3.5	--	--	12
APR.							
10...	--	--	3.6	--	--	3.1	8.7
MAY							
22...	3.0	10	2.8	2.5	2.4	2.3	12
JUNE							
11...	31	36	6.3	--	3.9	3.1	2.7
JULY							
04...	--	--	5.1	5.1	4.7	4.8	--
AUG.							
14...	7.4	32	6.4	--	6.2	5.6	22
SEP.							
02...	14	--	6.5	--	--	5.3	31

11267050 MERCED RIVER AT RANCHERIA FLAT, NEAR EL PORTAL, CALIF.

LOCATION.--Lat 37°40'10", long 119°48'25", in SE¼SW¼ sec.18, T.3 S., R.20 E., Mariposa County, Stanislaus National Forest, on left bank 100 ft (30 m) downstream from bridge, 1.6 mi (2.6 km) southwest of El Portal.

DRAINAGE AREA.--393 mi^2 (1,018 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1973 to September 1974.

REMARKS.--Discharge obtained from stage-discharge rating at site.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.											
04...	0850	31	--	--	--	--	--	--	--	22	0
JAN.											
16...	1030	520	--	--	--	--	--	--	--	--	--
FEB.											
21...	1315	--	--	--	--	--	--	--	--	12	0
APR.											
10...	1050	--	--	--	--	--	--	--	--	10	0
MAY											
22...	1245	--	7.1	--	--	2.1	.2	1.1	.3	8	0
JUNE											
12...	1150	--	--	--	--	--	--	--	--	6	0
JULY											
03...	1200	--	5.2	120	--	1.6	.1	.9	.3	8	0
04...	1030	--	5.3	150	--	1.5	.0	.9	.3	8	0
05...	0900	--	5.3	110	--	1.4	.0	.9	.3	8	0
AUG.											
14...	1300	--	--	--	--	--	--	--	--	13	0
SEP.											
01...	1120	--	--	--	--	--	--	--	--	17	0
01...	1250	61	11	70	60	3.1	.1	3.1	.8	17	0
01...	1325	--	--	--	--	--	--	--	--	17	0
01...	1520	--	--	--	--	--	--	--	--	17	0
01...	1715	--	--	--	--	--	--	--	--	18	0
01...	1915	--	--	--	--	--	--	--	--	18	0
01...	2200	--	--	--	--	--	--	--	--	18	0
02...	0110	--	--	--	--	--	--	--	--	20	0
02...	0430	--	--	--	--	--	--	--	--	16	0
02...	0705	--	--	--	--	--	--	--	--	18	0
02...	0915	--	--	--	--	--	--	--	--	17	0
02...	1030	61	11	80	50	3.2	.5	2.7	.9	18	0
03...	1020	55	11	80	60	3.1	.4	3.0	1.0	17	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
OCT.										
04...	18	--	--	--	--	--	--	--	--	--
JAN.										
16...	--	--	--	.39	.40	--	.03	--	.44	.47
FEB.										
21...	10	--	--	--	--	--	--	--	--	--
APR.										
10...	8	--	--	--	--	--	--	--	--	--
MAY										
22...	7	.8	.6	.01	.01	.01	.05	.01	.21	.26
JUNE										
12...	5	--	--	--	--	--	--	--	--	--
JULY										
03...	7	.9	.6	--	--	--	.02	.02	--	--
04...	7	.9	.7	--	--	--	.03	.02	--	--
05...	7	.9	.8	--	--	--	.02	.02	--	--
AUG.										
14...	11	--	--	--	--	--	--	--	--	--
SEP.										
01...	14	--	--	--	--	--	--	--	--	--
01...	14	1.3	.8	--	--	.16	.07	--	.49	.56
01...	14	--	--	--	--	--	--	--	--	--
01...	14	--	--	--	--	--	--	--	--	--
01...	15	--	--	--	--	--	--	--	--	--
01...	15	--	--	--	--	--	--	--	--	--
01...	15	--	--	--	--	--	--	--	--	--
02...	16	--	--	--	--	--	--	--	--	--
02...	13	--	--	--	--	--	--	--	--	--
02...	15	--	--	--	--	--	--	--	--	--
02...	14	--	--	--	--	--	--	--	--	--
02...	15	1.[illegible]	.7	--	--	.31	.06	--	.22	.28
03...	14	1.4	.9	--	--	.41	.06	--	.52	.58

11267050 MERCED RIVER AT RANCHERIA FLAT, NEAR EL PORTAL, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (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)	HARDNESS (CA,MG) (MG/L)
OCT.										
04...	--	--	--	--	--	--	--	--	--	--
JAN.										
16...	.87	.05	--	.04	--	--	--	--	--	--
FEB.										
21...	--	--	--	--	--	--	--	--	--	--
APR.										
10...	--	--	--	--	--	--	--	--	--	--
MAY										
22...	.27	.01	.00	.01	.01	11	16	.02	--	6
JUNE										
12...	--	--	--	--	--	--	--	--	--	--
JULY										
03...	--	.01	.01	.01	.00	2	14	.00	--	4
04...	--	.01	.01	.03	.00	10	14	.01	--	4
05...	--	.00	.00	.04	.00	8	14	.01	--	4
AUG.										
14...	--	--	--	--	--	--	--	--	--	--
SEP.										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	.07	--	--	.03	41	29	.06	6.75	8
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	.08	--	--	.04	34	31	.05	5.60	10
03...	--	.09	--	--	.05	40	31	.05	5.94	9

DATE	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.										
04...	--	--	--	59	7.5	12.0	11.5	--	--	--
JAN.										
16...	--	--	--	33	6.8	6.0	13.0	--	--	1.7
FEB.										
21...	--	--	--	32	6.7	5.0	15.1	--	--	--
APR.										
10...	--	--	--	26	6.4	4.0	13.2	--	--	--
MAY										
22...	0	27	.2	18	6.6	8.5	12.0	<1	--	1.7
JUNE										
12...	--	--	--	9	6.5	12.5	10.5	B9	--	--
JULY										
03...	0	29	.2	12	--	17.0	--	--	--	10
04...	0	32	.2	14	6.6	17.5	9.7	--	--	3.4
05...	0	34	.2	13	--	17.0	--	--	--	2.5
AUG.										
14...	--	--	--	30	7.2	21.0	9.5	B4	--	--
SEP.										
01...	--	--	--	38	7.7	19.0	9.6	B2	B12	--
01...	0	42	.5	40	--	20.0	--	--	--	3.2
01...	--	--	--	38	7.8	20.5	9.3	B2	B11	--
01...	--	--	--	38	8.0	22.0	9.1	B9	B14	--
01...	--	--	--	39	8.0	22.0	8.8	B3	20	--
01...	--	--	--	40	7.4	21.5	8.4	B5	40	--
01...	--	--	--	41	7.2	20.5	8.4	B6	30	--
02...	--	--	--	40	7.4	19.0	8.7	B5	100	--
02...	--	--	--	40	7.2	18.0	8.8	B6	21	--
02...	--	--	--	40	7.2	17.5	9.1	B10	29	--
02...	--	--	--	39	7.6	18.0	9.7	24	B4	--
02...	0	34	.4	39	--	18.5	--	--	--	.6
03...	0	38	.4	40	7.5	19.0	9.4	--	--	.5

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

11267050 MERCED RIVER AT RANCHERIA FLAT, NEAR EL PORTAL, CALIF.--Continued

BIOLOGICAL ANALYSES, AUGUST 1973 TO SEPTEMBER 1974

BENTHIC INVERTEBRATES 1/

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	ORGANISM COUNT	PERCENT COMPOSITION
1973				
AUG.				
07...	ARTHROPODA			
	.Insecta			
	..Diptera	Two-winged flies		
	...Chironomidae		15	83.3
	...Simuliidae		1	5.6
	.Ephemeroptera	Mayflies		
	...Siphlonuridae		1	5.6
	..Trichoptera	Caddisflies		
	...Hydropsychidae			
	....*Cheumatopsyche*		1	5.6
		TOTAL	18	
SEP.				
04...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		1	3.4
	..Diptera	Two-winged flies		
	...Chironomidae		2	6.9
	..Ephemeroptera	Mayflies		
	...Baetidae			
	....*Baetis*		12	41.4
	..Ephemerellidae			
	....*Ephemerella*		1	3.4
	...Heptageniidae			
	....*Iron*		5	17.2
	..Plecoptera	Stoneflies		
	...Perlodidae			
	....*Arcynopteryx*		5	17.2
	..Trichoptera	Caddisflies		
	...Hydropsychidae			
	....*Hydropsyche*		2	6.9
	...Limnephilidae			
	....*Dicosmoecus*		1	3.4
		TOTAL	29	
OCT.				
04...	ANNELIDA			
	.Oligochaeta			
	..Opisthopora	Earthworms		
	...Lumbricidae			
	....*Eiseniella*		2	2.8
	ARTHROPODA			
	.Insecta			
	..Diptera	Two-winged flies		
	...Chironomidae		3	4.2
	..Ephemeroptera	Mayflies		
	...Baetidae			
	....*Baetis*		10	14.1
	...Ephemerellidae			
	....*Ephemerella*		3	4.2
	...Heptageniidae			
	....*Iron*		6	8.5
	..Plecoptera	Stoneflies		
	...Perlodidae			
	....*Arcynopteryx*		27	38.0
	..Trichoptera	Caddisflies		
	...Hydropsychidae			
	....*Hydropsyche*		20	28.2
1974		TOTAL	71	
AUG.				
14...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		4	8.9
	...Ptilodactylidae			
	....*Stenocolus*		1	2.2
	..Diptera	Two-winged flies		
	...Tipulidae			
	....*Autocha*		3	6.7
	..Ephemeroptera	Mayflies		
	...Baetidae			
	....*Baetis*		6	13.3
	..Plecoptera	Stoneflies		
	...Perlodidae			
	....*Arcynopteryx*			
	.....*parallela*		8	17.8
	..Trichoptera	Caddisflies		
	...Hydropsychidae			
	....*Hydropysche*		23	51.1
		TOTAL	45	

BIOLOGICAL ANALYSES, AUGUST 1973 TO SEPTEMBER 1974

BENTHIC INVERTEBRATES

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	ORGANISM COUNT	PERCENT COMPOSITION
1974				
SEP.				
14...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		2	14.3
	..Diptera	Two-winged flies		
	...Tipulidae			
	....*Antocha*		2	14.3
	....*Hexatoma*		1	7.1
	..Ephemeroptera	Mayflies		
	...Ephemerellidae			
	....*Ephemerella*			
	.....*micheneri*		1	7.1
	..Lepidoptera	Moths and butterflies		
	...Pyralidae			
	....*Parargyractis*		1	7.1
	..Plecoptera	Stoneflies		
	...Chloroperlidae			
	....*Hastaperla*		1	7.1
	...Perlodidae			
	....*Arcynopteryx*			
	.....*parallela*		3	21.4
	..Trichoptera	Caddisflies		
	...Hydropsychidae			
	....*Hydropsyche*		3	21.4
		TOTAL	14	

1/ Collected with a Surber sampler.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)
MAY											
22...	1245	1	--	1	<10	--	2	0	--	0	<50
JULY											
03...	1200	2	0	2	<10	<10	0	0	0	0	<50
04...	1030	1	0	3	<10	<10	0	0	0	0	<50
05...	0900	2	0	3	<10	<10	0	0	0	0	<50
SEP.											
01...	1250	1	0	1	<10	<10	0	0	0	0	<50
02...	1030	2	1	1	<10	<10	0	0	0	0	<50
03...	1020	1	0	1	<10	<9	<1	0	0	0	<50

DATE	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY											
22...	--	1	<100	--	21	.8	--	.9	30	--	20
JULY											
03...	<50	0	<100	<98	2	.1	.0	.1	--	0	--
04...	<50	0	<100	<96	4	.0	.0	.0	0	0	0
05...	<50	0	<100	<97	3	.0	.0	.0	0	0	0
SEP.											
01...	<50	0	<100	<100	0	.0	.0	.0	10	10	0
02...	<50	0	<100	<98	2	.0	.0	.0	10	10	0
03...	<50	0	<100	<97	3	.2	.2	.0	10	10	0

11268000 SOUTH FORK MERCED RIVER NEAR EL PORTAL, CALIF.

LOCATION.--Lat 37°39'05", long 119°53'04", in NW¼NE¼ sec.29, T.3 S., R.19 E., Mariposa County, on right bank 1,500 ft (460 m) upstream from mouth, and 5.9 mi (9.5 km) west of El Portal.

DRAINAGE AREA.--241 mi^2 (624 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1973 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.											
04...	1020	--	--	--	--	--	--	--	--	42	0
JAN.											
16...	1115	418	--	--	--	--	--	--	--	--	--
APR.											
10...	1140	--	--	--	--	--	--	--	--	12	0
MAY											
23...	1100	1170	6.8	--	--	2.6	.2	1.2	.3	8	0
JUNE											
12...	1230	--	--	--	--	--	--	--	--	0	7
JULY											
03...	1130	134	12	70	--	2.7	.5	1.8	.4	15	0
04...	0930	111	13	50	--	4.0	.4	1.8	.4	15	0
05...	0920	107	13	50	--	3.1	.4	1.9	.5	16	0
AUG.											
14...	1200	29	--	--	--	--	--	--	--	31	0
SEP.											
01...	1100	16	--	--	--	--	--	--	--	40	0
01...	1230	17	15	40	20	9.1	1.2	6.4	1.0	35	0
01...	1310	--	--	--	--	--	--	--	--	42	0
01...	1500	--	--	--	--	--	--	--	--	39	0
01...	1700	--	--	--	--	--	--	--	--	42	0
01...	1930	--	--	--	--	--	--	--	--	40	0
01...	2210	--	--	--	--	--	--	--	--	40	0
02...	0125	--	--	--	--	--	--	--	--	38	0
02...	0440	--	--	--	--	--	--	--	--	40	0
02...	0720	--	--	--	--	--	--	--	--	42	0
02...	0900	16	15	40	20	8.9	1.2	6.6	1.0	38	0
03...	1130	16	15	50	20	9.0	.4	6.3	1.1	36	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.										
04...	34	--	--	--	--	--	--	--	--	--
JAN.										
16...	--	--	--	.03	.00	--	.05	--	.00	.01
APR.										
10...	10	--	--	--	--	--	--	--	--	--
MAY										
23...	7	6.4	.6	.00	.00	.00	.20	.01	.09	.29
JUNE										
12...	12	--	--	--	--	--	--	--	--	--
JULY										
03...	12	1.3	1.6	--	--	--	.04	.04	--	--
04...	12	1.1	2.2	--	--	--	.04	.01	--	--
05...	13	1.4	2.2	--	--	--	.04	.00	--	--
AUG.										
14...	25	--	--	--	--	--	--	--	--	--
SEP.										
01...	33	--	--	--	--	--	--	--	--	--
01...	29	2.3	8.5	--	--	.01	.05	--	.00	.05
01...	34	--	--	--	--	--	--	--	--	--
01...	32	--	--	--	--	--	--	--	--	--
01...	34	--	--	--	--	--	--	--	--	--
01...	33	--	--	--	--	--	--	--	--	--
01...	33	--	--	--	--	--	--	--	--	--
02...	31	--	--	--	--	--	--	--	--	--
02...	33	--	--	--	--	--	--	--	--	--
02...	34	--	--	--	--	--	--	--	--	--
02...	31	2.4	8.5	--	--	.02	.06	--	.04	.10
03...	30	2.3	8.9	--	--	.01	.05	--	.13	.18

11268000 SOUTH FORK MERCED RIVER NEAR EL PORTAL, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (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)	HARDNESS (CA,MG) (MG/L)
OCT.										
04...	--	--	--	--	--	--	--	--	--	--
JAN.										
16...	.04	.02	--	.00	--	--	--	--	--	--
APR.										
10...	--	--	--	--	--	--	--	--	--	--
MAY										
23...	.29	.02	.00	.00	.00	18	22	.02	56.9	7
JUNE										
12...	--	--	--	--	--	--	--	--	--	--
JULY										
03...	--	.00	.00	.02	.00	18	28	.02	6.51	9
04...	--	.00	.00	.03	.00	23	30	.03	6.89	12
05...	--	.00	.00	.03	.00	25	30	.03	7.22	9
AUG.										
14...	--	--	--	--	--	--	--	--	--	--
SEP.										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	.01	--	--	.00	65	61	.09	2.98	28
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	.01	--	--	.00	67	62	.09	2.89	27
03...	--	.01	--	--	.00	65	61	.09	2.81	24

DATE	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.										
04...	--	--	--	129	7.8	14.5	--	--	--	--
JAN.										
16...	--	--	--	57	6.9	6.5	12.0	--	--	2.1
APR.										
10...	--	--	--	42	6.5	8.5	--	--	--	--
MAY										
23...	0	25	.2	18	6.4	10.0	--	--	--	1.4
JUNE										
12...	--	--	--	12	6.8	15.0	--	--	--	--
JULY										
03...	0	30	.3	27	--	21.0	--	--	--	5.2
04...	0	24	.2	31	6.9	20.0	--	B13	--	3.2
05...	0	29	.3	--	7.3	20.0	--	--	--	1.2
AUG.										
14...	--	--	--	70	7.6	24.0	--	--	--	--
SEP.										
01...	--	--	--	91	8.0	22.0	8.8	B1	120	--
01...	0	33	.5	88	--	22.5	--	--	--	5.0
01...	--	--	--	90	8.0	23.5	8.8	B1	65	--
01...	--	--	--	90	8.0	24.5	8.7	<1	85	--
01...	--	--	--	91	8.1	24.5	8.6	B2	75	--
01...	--	--	--	91	8.1	24.5	8.0	<1	70	--
01...	--	--	--	92	8.0	24.0	8.0	B2	55	--
02...	--	--	--	92	7.6	23.5	7.6	<1	60	--
02...	--	--	--	92	7.7	22.0	7.8	B2	45	--
02...	--	--	--	91	7.9	21.5	7.7	B2	40	--
02...	0	34	.6	91	7.8	21.5	8.5	B5	40	3.1
03...	0	35	.6	97	--	23.0	--	--	--	.7

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

11268000 SOUTH FORK MERCED RIVER NEAR EL PORTAL, CALIF.--Continued

BIOLOGICAL ANALYSES, AUGUST 1973 TO SEPTEMBER 1974

BENTHIC INVERTEBRATES 1/

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	ORGANISM COUNT	PERCENT COMPOSITION
1973				
AUG.				
07...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		1	25
	..Diptera	Two-winged flies		
	...Chironomidae		4	50
	..Ephemeroptera	Mayflies		
	...Ephemerellidae			
	....*Ephemerella*		1	25
		TOTAL	6	
SEP.				
04...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		2	2.4
	...Ptilodactylidae			
	....*Stenocolus*		1	1.2
	..Ephemeroptera	Mayflies		
	...Baetidae			
	....*Baetis*		5	6.0
	...Heptageniidae			
	....*Iron*		15	17.9
	..Plecoptera	Stoneflies		
	...Perlidae			
	....*Claassenia*		5	6.0
	...Perlodidae		1	1.2
	...Pteronarcidae			
	....*Pteronarcys*		1	1.2
	..Trichoptera	Caddisflies		
	...Glossosomatidae			
	....*Glossosoma*		2	2.4
	...Hydropsychidae			
	....*Cheumatopsyche*		15	17.9
	...Hydroptiliidae		2	2.4
	...Philopotamidae			
	....*Chimarra*		23	27.4
	...Psychomiidae		12	14.3
		TOTAL	84	
OCT.				
04...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		4	5.3
	..Diptera	Two-winged flies		
	...Chironomidae		2	2.6
	..Ephemeroptera	Mayflies		
	...Baetidae			
	....*Baetis*		11	14.3
	...Heptageniidae			
	....*Iron*		10	13.0
	..Plecoptera	Stoneflies		
	...Perlidae			
	....*Claassenia*		5	6.5
	...Perliodidae			
	....*Arcynopteryx*		4	5.2
	...Pteronarcidae			
	....*Pteronarcys*		2	2.6
	..Trichoptera	Caddisflies		
	...Hydropsychidae			
	....*Hydropsyche*		20	26.0
	...Philopotamidae			
	....*Chimarra*		13	16.9
	..Psychomiidae		6	7.8
		TOTAL	77	
1974				
AUG.				
14...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Ptilodactylidae			
	....*Stenocolus*		1	11.1
	..Diptera	Two-winged flies		
	...Chironomidae		3	33.3
	..Ephemeroptera	Mayflies		
	...Baetidae			
	....*Baetis*		1	11.1
	...Tricorythidae			
	....*Tricorythodes*			
	.....*fallax*		4	44.4
		TOTAL	9	

BIOLOGICAL ANALYSES, AUGUST 1973 TO SEPTEMBER 1974

BENTHIC INVERTEBRATES

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	ORGANISM COUNT	PERCENT COMPOSITION
1974				
SEP.				
02...	ARTHROPODA			
	.Insecta			
	..Coleoptera	Beetles		
	...Elmidae		7	16.7
	..Ephemeroptera	Mayflies		
	...Heptageniidae			
	....*Iron*			
	.....*albertae*		7	16.7
	..Plecoptera	Stoneflies		
	...Perlidae			
	....*Claassenia*			
	.....*sabulosa*		3	7.1
	...Perlodidae			
	....*Arcynopteryx*			
	.....*parallela*		9	21.4
	...Pteronarcidae			
	....*Pteronarcys*			
	.....*californica*		1	2.4
	..Trichoptera	Caddisflies		
	...Hydropsychidae			
	....*Hydropsyche*		5	11.9
	...Philopotamidae			
	....*Chimarra*		2	4.8
	...Psychomiidae		8	19.0
		TOTAL	42	

1/ Collected with a Surber sampler.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)
MAY											
23...	1100	0	--	0	<10	--	1	0	--	0	<50
JULY											
03...	1130	2	0	2	<10	<10	0	0	0	0	<50
04...	0930	2	0	3	<10	<10	0	0	0	0	<50
05...	0920	1	0	3	<10	<10	0	0	0	0	<50
SEP.											
01...	1230	0	0	0	<10	<10	0	0	0	0	<50
02...	0900	1	0	1	<10	<9	<1	0	0	0	<50
03...	1130	1	1	0	<10	<10	0	0	0	0	<50

DATE	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
MAY											
23...	--	1	<100	--	7	1.0	--	.8	50	--	10
JULY											
03...	<50	0	<100	<97	3	.0	.0	.0	40	40	0
04...	<50	0	<100	<97	3	.0	.0	.0	0	0	0
05...	<50	0	<100	<96	4	.0	.0	.0	0	0	0
SEP.											
01...	<50	0	<100	<98	2	.0	.0	.0	10	10	0
02...	<50	0	<100	<98	2	.0	.0	.0	20	20	0
03...	<50	0	<100	<98	2	.0	.0	.0	0	0	0

11268200 MERCED RIVER NEAR BRICEBURG, CALIF.

LOCATION.--Lat 37°38'09", long 119°55'56", in NW¼NE¼ sec.36, T.3 S., R.18 E., Mariposa County, at gaging station on left bank 150 ft (46 m) upstream from Feliciana Creek, and 2.8 mi (4.5 km) northeast of Briceburg.

DRAINAGE AREA.--691 mi^2 (1,790 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1973 to September 1974.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.												
04...	1140	--	32	0	26	--	--	--	--	--	--	--
JAN.												
16...	1230	1000	--	--	--	.13	.15	--	.03	--	.25	.28
FEB.												
21...	1400	--	2	0	2	--	--	--	--	--	--	--
27...	1015	--	18	0	15	--	--	--	--	--	--	--
APR.												
10...	1210	--	14	0	11	--	--	--	--	--	--	--
MAY												
23...	1300	3480	8	0	7	.00	.00	.00	.06	.03	.24	.30
JUNE												
12...	1245	--	5	0	4	--	--	--	--	--	--	--
JULY												
03...	1100	1030	--	--	--	--	--	--	.02	.03	--	--
04...	0900	920	9	0	7	--	--	--	.01	.02	--	--
05...	0940	878	--	--	--	--	--	--	.03	.02	--	--
AUG.												
15...	1150	--	14	0	11	--	--	--	--	--	--	--
SEP.												
01...	1140	97	--	--	--	--	--	.18	.09	--	.09	.18
02...	0820	97	--	--	--	--	--	2.7	.07	--	.09	.16
03...	1200	93	6	0	5	--	--	.20	.05	--	.10	.15

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
04...	--	--	--	--	--	93	8.0	15.0	--	--	--
JAN.											
16...	.43	.04	--	.02	--	42	6.9	7.0	12.0	--	2.1
FEB.											
21...	--	--	--	--	--	45	6.8	5.0	--	--	--
27...	--	--	--	--	--	43	6.9	5.5	--	--	--
APR.											
10...	--	--	--	--	--	38	6.6	6.5	--	--	--
MAY											
23...	.30	.01	.00	.00	.00	15	6.5	10.5	--	--	1.6
JUNE											
12...	--	--	--	--	--	10	6.7	13.0	--	--	--
JULY											
03...	--	.01	.00	.01	.00	--	--	18.0	--	--	--
04...	--	.00	.00	.03	.00	18	6.6	18.0	--	B16	--
05...	--	.00	.00	.03	.00	--	--	18.0	--	--	--
AUG.											
15...	--	--	--	--	--	39	7.0	20.0	--	--	--
SEP.											
01...	--	.05	--	--	.01	--	--	21.0	--	--	2.1
02...	--	.06	--	--	.01	--	--	20.5	--	--	.8
03...	--	.05	--	--	.01	56	7.5	22.0	--	--	.7

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

11283100 LILY CREEK NEAR PINECREST, CALIF.

LOCATION.--Lat 38°08'41", long 119°53'59" (unsurveyed), T.3 N., R.19 E., Tuolumne County, Stanislaus National Forest, temperature recorder at gaging station on left bank, 1,500 ft (460 m) downstream from Mud Lake, and 5.7 mi (9.2 km) southeast of Pinecrest.

DRAINAGE AREA.--11.9 mi^2 (30.8 km^2).

PERIOD OF RECORD.--Water temperatures: October 1964 to September 1974 (discontinued).

EXTREMES.--Current year:
Water temperatures: Maximum, 20.5°C Aug. 2, 3; minimum, freezing point on many days during winter period.
Period of record:
Water temperatures: Maximum, 25.0°C Aug. 17, 1966; minimum, freezing point on many days during winter period each year.

REMARKS.--Temperature probe frozen Nov. 21 to Mar. 18.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	10.0	4.5	4.5	---	---	---	---	---	---	---	---
2	10.5	9.5	4.5	4.5	---	---	---	---	---	---	---	---
3	10.0	9.0	4.5	4.0	---	---	---	---	---	---	---	---
4	10.0	8.5	4.0	3.5	---	---	---	---	---	---	---	---
5	9.5	8.5	3.5	2.5	---	---	---	---	---	---	---	---
6	9.5	8.5	2.5	2.0	---	---	---	---	---	---	---	---
7	8.5	7.5	3.0	2.0	---	---	---	---	---	---	---	---
8	7.5	6.0	3.0	2.5	---	---	---	---	---	---	---	---
9	6.0	5.0	3.0	2.5	---	---	---	---	---	---	---	---
10	5.5	5.0	3.5	2.5	---	---	---	---	---	---	---	---
11	6.0	5.0	3.0	3.0	---	---	---	---	---	---	---	---
12	6.5	6.0	3.0	2.0	---	---	---	---	---	---	---	---
13	7.5	6.5	2.0	1.5	---	---	---	---	---	---	---	---
14	8.0	7.5	1.5	1.0	---	---	---	---	---	---	---	---
15	8.5	7.5	1.5	1.0	---	---	---	---	---	---	---	---
16	8.5	7.5	1.5	1.0	---	---	---	---	---	---	---	---
17	8.5	8.0	1.0	1.0	---	---	---	---	---	---	---	---
18	8.5	8.0	1.0	0.5	---	---	---	---	---	---	---	---
19	8.0	7.5	0.5	0.5	---	---	---	---	---	---	0.0	0.0
20	8.0	7.5	0.5	0.5	---	---	---	---	---	---	0.5	0.0
21	8.0	7.5	---	---	---	---	---	---	---	---	1.0	0.5
22	7.5	6.5	---	---	---	---	---	---	---	---	2.0	1.0
23	6.5	2.5	---	---	---	---	---	---	---	---	2.0	1.0
24	3.0	2.5	---	---	---	---	---	---	---	---	2.5	1.0
25	3.0	3.0	---	---	---	---	---	---	---	---	2.0	1.5
26	3.5	3.0	---	---	---	---	---	---	---	---	2.0	1.5
27	4.0	3.5	---	---	---	---	---	---	---	---	2.0	1.0
28	4.0	3.5	---	---	---	---	---	---	---	---	1.5	1.0
29	4.0	3.5	---	---	---	---	---	---	---	---	1.5	1.0
30	4.0	3.5	---	---	---	---	---	---	---	---	1.5	1.0
31	4.5	4.0	---	---	---	---	---	---	---	---	1.0	1.0
MONTH	11.5	2.5	---	---	---	---	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	1.0	1.0	3.5	2.0	7.5	5.0	18.0	13.5	20.0	18.5	17.5	15.5
2	1.0	1.0	3.5	2.0	7.0	5.0	17.5	13.5	20.5	18.5	18.0	15.5
3	1.0	1.0	3.0	2.0	8.0	5.0	17.5	14.0	20.5	18.0	18.0	15.5
4	1.0	1.0	3.5	2.0	8.0	5.5	17.5	14.5	20.0	18.0	18.0	15.5
5	1.0	1.0	3.5	2.0	9.0	6.0	17.5	15.0	18.0	15.5	18.0	15.5
6	3.0	1.0	3.5	2.0	10.0	6.5	17.5	14.5	18.0	16.0	18.0	15.5
7	2.5	1.0	3.5	2.0	10.5	7.0	17.0	14.0	18.0	16.5	18.0	16.0
8	2.5	1.5	4.0	2.0	10.5	6.5	16.5	13.5	17.0	15.5	17.5	15.5
9	2.5	1.5	4.0	2.0	11.0	7.5	13.5	10.5	18.0	16.5	18.0	15.5
10	2.0	1.0	4.0	2.0	11.5	7.5	10.5	10.0	18.0	17.0	17.5	15.5
11	3.5	1.5	4.0	2.0	11.5	8.5	13.0	8.5	19.0	17.0	17.0	15.0
12	3.0	1.5	4.0	2.5	12.0	8.5	14.0	10.0	19.0	17.0	17.0	15.0
13	3.0	1.0	4.0	2.0	12.0	8.0	15.0	11.0	18.0	16.0	16.5	14.5
14	2.5	1.5	4.5	2.0	11.5	8.0	16.0	12.5	18.0	15.0	16.0	14.0
15	2.5	1.5	4.5	2.0	11.0	8.5	16.5	13.5	18.0	15.0	15.5	13.5
16	3.0	1.5	4.5	2.0	11.0	8.5	16.5	13.0	18.0	15.5	15.0	13.0
17	3.5	2.0	3.5	2.0	11.5	8.0	16.5	13.0	18.5	15.5	16.0	13.0
18	2.5	2.0	2.5	2.0	11.0	8.0	16.0	13.5	18.5	15.5	15.5	13.0
19	3.0	1.5	2.0	1.0	9.5	8.0	16.5	15.0	17.5	15.5	16.0	13.0
20	4.0	2.0	3.5	1.0	11.5	7.0	17.0	16.0	17.5	15.0	15.0	13.0
21	4.0	2.0	5.5	2.0	13.0	9.5	18.0	16.0	18.5	15.5	15.0	12.5
22	3.5	2.5	5.5	3.0	14.0	10.0	18.5	17.0	19.5	15.5	14.5	12.5
23	2.5	2.0	5.0	3.0	14.5	10.5	19.5	18.0	19.0	16.0	14.0	12.5
24	2.0	2.0	5.5	3.0	14.5	10.5	20.0	18.5	19.0	16.0	13.5	12.0
25	2.0	1.5	5.5	3.0	14.0	10.5	19.0	18.0	19.0	16.5	13.5	12.0
26	1.5	1.5	6.0	3.5	14.0	9.5	18.5	16.0	18.5	16.0	13.5	12.0
27	3.0	2.0	6.0	3.5	15.0	10.0	18.5	16.5	18.5	16.0	13.0	11.5
28	4.5	2.0	6.5	3.5	16.5	11.5	19.0	17.5	18.5	16.0	12.5	11.5
29	4.5	2.0	7.0	4.0	17.5	13.0	19.0	18.5	19.0	16.0	12.0	11.0
30	4.0	2.5	7.5	4.0	18.0	13.5	20.0	18.5	18.5	16.0	11.0	10.0
31	---	---	8.0	4.5	---	---	20.0	19.0	18.0	16.0	---	---
MONTH	4.5	1.0	8.0	1.0	18.0	5.0	20.0	8.5	20.5	15.0	18.0	10.0

11289650 TUOLUMNE RIVER BELOW LA GRANGE DAM, NEAR LA GRANGE, CALIF.

LOCATION.--Lat 37°39'59", long 120°26'28", in NW¼NW¼ sec.21, T.3 S., R.14 E., Stanislaus County, temperature recorder at gaging station on left bank, 0.5 mi (0.8 km) downstream from La Grange Dam, and 1.1 mi (1.8 km) east of La Grange.

DRAINAGE AREA.--1,538 mi² (3,983 km²).

PERIOD OF RECORD.--Water temperatures: November 1970 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 15.5°C July 17, 28; minimum, 8.5°C on many days during February to April.
Period of record:
Water temperatures: Maximum (1972 to current year), 20.5°C Aug. 19, 1973; minimum, 6.0°C Feb. 6-8, 10, 1971.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	12.0	9.5	13.0	10.5	12.0	10.0	13.0	10.5	11.5	10.5
2	10.0	8.5	12.5	9.5	12.5	10.0	12.5	10.0	12.0	10.5	11.5	11.0
3	9.5	8.5	12.0	9.5	12.5	9.5	12.0	10.0	13.5	11.0	12.5	11.0
4	9.5	8.5	11.0	9.5	11.5	9.5	13.5	10.0	13.5	11.0	12.0	11.0
5	9.5	8.5	11.5	9.5	12.0	9.5	13.5	10.5	12.5	10.5	12.5	11.0
6	9.5	8.5	13.5	9.5	11.5	9.5	13.5	10.5	12.0	10.5	12.0	11.0
7	10.0	8.5	11.5	9.0	12.0	9.5	13.5	10.5	13.5	10.5	12.0	11.0
8	9.5	8.5	11.0	9.0	12.0	9.5	13.5	10.5	13.0	11.0	12.0	10.5
9	9.0	8.5	12.0	9.5	13.5	9.5	11.5	10.5	14.0	11.5	12.5	10.5
10	9.5	8.5	12.0	9.5	11.5	9.5	13.5	10.5	14.0	11.5	12.0	10.5
11	9.5	8.5	13.0	9.5	11.5	9.5	13.0	10.5	14.5	11.5	12.0	11.0
12	9.5	8.5	12.0	9.5	13.5	9.5	13.5	10.5	14.5	11.5	12.0	11.0
13	9.5	8.5	12.0	9.5	14.5	9.5	14.5	10.5	12.0	10.5	12.0	11.0
14	10.5	8.5	12.0	9.5	12.5	10.0	13.0	10.5	11.0	10.5	12.0	10.5
15	10.0	9.0	12.0	9.5	12.0	10.0	13.0	10.5	11.0	10.5	12.0	10.5
16	9.5	8.5	11.5	9.5	12.0	10.0	14.0	10.5	11.5	10.5	12.5	10.5
17	9.5	8.5	12.0	9.5	12.5	10.0	15.5	10.5	11.5	10.5	12.0	11.0
18	9.5	9.0	11.5	9.5	12.5	10.0	13.5	10.5	11.5	10.5	12.0	11.0
19	9.5	9.0	12.5	9.5	12.0	10.0	11.5	10.5	11.5	10.5	12.0	11.0
20	9.5	8.5	13.0	9.5	12.5	10.0	13.5	10.5	11.5	10.5	12.0	11.0
21	10.0	9.0	13.5	9.5	15.0	10.0	14.0	11.0	12.0	10.5	12.0	11.0
22	10.0	9.0	13.0	10.0	14.5	11.0	12.0	10.0	12.5	10.5	12.0	11.0
23	9.0	9.0	12.0	9.5	13.0	10.5	11.0	10.5	12.0	10.5	12.0	11.0
24	9.5	9.0	14.5	9.5	13.0	10.0	11.0	10.5	11.5	10.5	12.0	11.0
25	9.5	8.5	14.0	10.5	13.0	10.5	11.0	10.5	11.5	10.5	12.0	11.0
26	10.0	8.5	14.0	10.0	13.5	10.0	12.0	10.5	12.5	10.5	12.0	10.0
27	10.0	8.5	13.0	10.5	13.5	10.5	13.5	11.0	11.5	10.5	12.0	11.0
28	10.0	8.5	13.5	10.0	12.0	10.0	15.5	11.0	11.5	10.5	12.0	11.0
29	10.0	9.0	14.0	10.0	11.5	10.0	13.5	11.0	11.5	10.5	12.0	11.0
30	11.5	9.0	14.0	10.0	14.5	10.0	14.5	11.5	11.5	10.5	12.0	10.5
31	---	---	12.5	10.0	---	---	15.0	11.5	11.5	10.5	---	---
MONTH	11.5	8.5	14.5	9.0	15.0	9.5	15.5	10.0	14.5	10.5	12.5	10.0

11290000 TUOLUMNE RIVER AT MODESTO, CALIF.

LOCATION.--Lat 37°37'38", long 120°59'11", in SE¼SW¼ sec.33, T.3 S., R.9 E., Stanislaus County, temperature recorder at gaging station on left bank, at bridge on Ninth Street in Modesto, and 0.2 mi (0.3 km) downstream from Dry Creek.
DRAINAGE AREA.--1,884 mi^2 (4,880 km^2).
PERIOD OF RECORD.--Water temperatures: July 1965 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 29.5°C Aug. 2; minimum, 9.5°C Jan. 4, 8, 9, Feb. 4.
Period of record:
Water temperatures: Maximum (1965-67, 1968-72, 1973 to current year), 31.5°C July 15, 1972; minimum, 6.5°C on several days in 1972.
REMARKS.--Recorder malfunction Mar. 4-6, June 16, 17.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	15.5	22.5	20.0	25.0	21.5	27.5	24.5	28.5	24.5	21.5	19.5
2	16.5	15.0	22.5	19.0	26.0	22.5	27.0	24.0	29.5	26.0	22.0	19.5
3	17.0	15.0	22.5	19.5	26.0	23.0	28.0	24.5	28.0	26.5	22.0	19.5
4	18.0	15.5	23.0	20.0	26.5	23.0	28.0	24.5	28.0	25.5	21.5	19.5
5	18.0	16.5	23.0	20.0	25.5	23.5	27.0	24.5	28.5	25.5	21.5	19.5
6	19.0	16.5	24.0	20.5	26.0	23.0	27.0	24.0	28.5	25.5	21.5	19.5
7	19.0	17.0	25.0	21.5	25.0	23.0	25.0	23.0	27.5	26.0	21.5	19.5
8	19.5	17.5	25.5	22.0	25.0	21.5	24.0	23.0	27.5	24.5	21.5	19.5
9	18.5	17.0	24.0	22.5	26.5	23.5	23.5	21.5	27.5	24.5	21.5	19.5
10	19.5	17.0	24.0	21.0	26.5	23.5	24.5	21.5	27.5	24.0	21.5	19.5
11	20.5	17.5	25.0	22.0	26.5	24.0	24.5	22.0	26.0	24.0	20.5	19.5
12	20.0	18.0	23.5	21.0	26.0	23.5	25.5	22.0	26.5	24.0	19.5	18.0
13	20.0	17.5	22.5	20.0	26.0	23.0	26.0	23.0	27.0	23.5	20.0	18.5
14	20.5	18.5	22.5	19.5	26.0	23.0	26.5	23.5	26.0	23.0	20.0	18.5
15	21.5	19.0	23.0	19.5	25.0	22.5	26.5	24.0	26.0	23.5	20.5	18.5
16	21.5	19.0	21.5	18.0	---	---	26.0	23.0	25.0	22.0	20.5	19.0
17	21.5	19.5	20.0	17.5	---	---	27.0	23.5	22.5	20.0	20.0	19.0
18	20.0	18.0	20.0	17.0	24.5	22.5	27.5	24.0	22.0	19.5	18.5	17.0
19	20.5	18.0	20.5	17.5	24.5	22.0	29.0	24.5	21.5	19.5	17.5	16.5
20	20.5	18.0	21.0	18.5	25.5	21.5	28.5	26.0	22.0	19.5	17.5	16.0
21	21.0	18.5	21.5	19.0	26.5	23.5	28.0	25.5	22.5	19.5	17.0	16.0
22	21.0	19.5	23.0	19.5	27.0	24.0	27.5	25.0	22.5	20.0	17.5	16.0
23	19.5	18.5	23.5	20.0	26.5	23.5	29.0	25.5	22.5	20.5	17.5	16.0
24	20.0	18.0	24.5	20.5	26.5	23.0	28.5	26.0	22.5	20.5	17.0	16.0
25	20.5	18.0	25.0	21.5	26.0	22.5	29.0	26.5	22.5	20.5	17.0	16.0
26	20.0	18.0	26.0	23.0	25.5	22.5	27.5	25.5	22.5	20.0	16.5	15.5
27	20.0	17.5	27.0	23.0	26.0	22.5	27.0	24.0	22.5	20.0	16.5	15.5
28	20.5	18.0	25.5	22.5	27.5	23.5	27.0	23.5	22.0	20.0	16.5	15.5
29	21.5	19.0	24.5	21.5	28.5	24.5	27.0	24.0	21.5	19.5	17.0	15.5
30	22.5	19.5	24.5	21.0	28.0	25.5	28.0	24.0	21.5	19.5	17.0	16.0
31	---	---	25.0	21.5	---	---	27.5	24.5	21.5	19.5	---	---
MONTH	22.5	15.0	27.0	17.0	28.5	21.5	29.0	21.5	29.5	19.5	22.0	15.5

11292700 MIDDLE FORK STANISLAUS RIVER AT HELLS HALF ACRE BRIDGE, NEAR PINECREST, CALIF.

LOCATION.--Lat 38°14'49", long 120°01'51", in SW¼NE¼ sec.31, T.5 N., R.18 E., Tuolumne County, temperature recorder at gaging station on left bank, 200 ft (61 m) upstream from Donnell powerhouse, 800 ft (244 m) downstream from Hells Half Acre Bridge, 1.1 mi (1.8 km) upstream from Cow Creek, and 4.7 mi (7.6 km) northwest of Pinecrest.
DRAINAGE AREA.--287 mi^2 (743 km^2).
PERIOD OF RECORD.--Water temperatures: October 1965 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 19.5°C Aug. 1, 2; minimum, 1.5°C Mar. 3.
Period of record:
Water temperatures: Maximum (1966 to current year), 22.5°C Aug. 10, 1972; minimum, freezing point on many days during winter period most years.
REMARKS.--No record Oct. 1-16. Clock stopped Oct. 28 to Nov. 14; range in temperature, 5.5°C to 11.5°C.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	5.0	3.5	3.0	2.0	4.5	4.0	4.5	4.0
2	---	---	---	---	3.5	3.0	2.0	2.0	4.0	3.0	3.5	2.0
3	---	---	---	---	3.5	3.0	2.5	2.0	4.0	3.5	3.0	1.5
4	---	---	---	---	3.5	3.0	2.5	2.5	4.5	4.0	3.5	2.5
5	---	---	---	---	4.0	3.5	2.5	2.5	4.0	3.5	4.5	3.5
6	---	---	---	---	4.0	3.5	2.0	2.0	3.5	2.5	4.5	4.0
7	---	---	---	---	4.5	4.0	3.0	2.0	4.0	3.0	4.5	3.5
8	---	---	---	---	4.0	3.5	3.0	2.5	4.0	3.5	4.5	3.5
9	---	---	---	---	4.0	3.5	3.5	3.0	4.0	3.0	4.5	3.5
10	---	---	---	---	4.0	3.5	3.5	2.5	4.0	3.5	4.5	4.0
11	---	---	---	---	3.5	3.5	3.0	2.5	4.0	3.0	5.0	4.0
12	---	---	---	---	3.5	3.0	3.5	3.0	3.5	3.5	5.5	4.5
13	---	---	---	---	3.5	3.5	4.0	3.5	3.5	3.0	5.5	4.5
14	---	---	---	---	3.5	3.0	4.0	3.5	4.0	3.0	6.0	5.0
15	---	---	5.5	5.0	3.5	3.0	4.5	4.0	4.0	3.5	6.0	5.0
16	---	---	5.5	5.5	4.5	4.0	4.0	4.0	4.0	3.5	5.5	5.0
17	13.0	11.0	5.5	4.5	4.5	4.0	4.0	3.5	4.0	3.0	5.5	5.0
18	12.5	11.0	5.0	4.5	4.5	3.5	4.5	3.5	4.0	3.5	5.5	4.5
19	12.5	10.5	4.5	4.0	4.0	3.0	4.5	4.0	4.0	3.5	6.0	4.5
20	13.0	11.5	4.0	4.0	4.0	3.5	4.5	3.5	4.0	3.5	6.0	4.5
21	12.5	11.0	4.0	4.0	4.0	4.0	3.5	2.5	4.0	3.5	6.0	5.0
22	12.0	11.0	4.0	3.5	4.0	3.5	3.5	2.5	4.5	3.5	5.5	4.5
23	11.5	9.5	3.5	3.5	3.5	3.5	4.0	3.5	4.5	3.5	6.0	4.5
24	10.5	8.0	4.0	3.5	4.0	3.5	4.5	3.5	4.5	4.0	6.0	5.0
25	10.5	8.5	3.5	3.5	4.0	3.5	4.5	4.0	5.0	4.0	6.0	5.0
26	10.5	8.5	3.5	3.5	4.5	4.0	4.0	3.5	4.5	4.0	6.0	5.5
27	10.5	8.5	3.5	3.0	4.5	4.0	4.0	3.0	5.0	4.0	5.5	5.0
28	---	---	4.0	3.5	4.0	4.0	4.0	3.5	4.5	4.5	5.5	4.5
29	---	---	4.5	4.0	4.0	3.5	4.0	3.5	---	---	6.0	5.0
30	---	---	4.5	4.0	3.5	3.0	4.0	3.5	---	---	5.5	5.0
31	---	---	---	---	3.5	3.0	4.5	4.0	---	---	5.0	4.5
MONTH	---	---	---	---	5.0	3.0	4.5	2.0	5.0	2.5	6.0	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.0	4.5	9.0	7.5	12.5	10.5	16.0	14.5	19.5	15.0	16.0	12.5
2	5.0	4.0	9.0	7.0	13.0	10.5	16.0	14.5	19.5	14.5	16.5	13.0
3	5.0	4.0	8.5	7.0	13.0	10.5	15.5	14.5	18.5	14.5	16.5	13.0
4	5.5	4.5	9.0	7.5	12.5	10.5	16.5	15.0	17.5	14.5	16.5	13.0
5	6.0	5.0	9.5	6.5	12.5	10.5	16.5	15.5	17.5	14.0	16.5	13.0
6	6.5	5.0	9.5	7.0	13.0	10.0	16.0	15.5	17.5	14.0	17.0	13.5
7	6.5	5.0	10.0	7.0	13.5	11.5	16.0	14.5	18.0	14.0	17.0	13.5
8	6.0	5.5	9.5	7.0	13.5	10.5	15.0	14.5	17.5	13.5	17.0	13.5
9	6.0	4.5	9.5	7.0	13.0	10.5	14.5	13.5	17.5	13.5	16.5	13.5
10	5.5	4.5	10.0	7.0	13.5	11.0	14.5	13.5	17.5	13.5	16.5	13.0
11	6.5	5.0	10.0	7.5	14.0	11.0	14.5	11.5	17.5	13.5	16.5	13.0
12	7.0	6.0	9.5	7.5	14.0	11.0	12.0	11.5	17.5	13.5	16.5	13.5
13	7.0	5.5	9.0	7.0	15.0	11.5	13.0	11.5	16.5	13.0	16.0	12.5
14	7.5	6.0	9.5	7.5	14.0	11.5	14.0	12.0	16.5	12.5	15.5	12.0
15	7.0	6.0	9.5	8.5	14.0	11.0	15.0	12.5	16.5	12.5	15.5	12.0
16	7.0	6.0	9.0	8.0	13.5	11.0	15.0	12.0	16.5	13.0	15.5	12.0
17	7.5	6.0	8.5	8.0	13.5	11.5	15.5	12.5	16.5	12.5	15.5	12.0
18	7.5	5.5	8.5	8.0	13.5	11.5	16.0	12.0	17.0	13.0	16.0	12.0
19	6.5	5.5	8.5	8.0	13.0	11.5	16.5	12.0	16.5	12.5	15.5	12.0
20	7.0	6.0	9.0	8.0	13.5	11.0	17.0	12.5	16.0	12.5	16.0	12.0
21	7.5	6.0	9.5	8.0	14.5	12.0	17.0	12.5	16.5	12.5	16.0	12.5
22	7.5	6.5	10.0	9.0	14.5	12.5	17.5	13.0	16.5	12.5	16.0	12.5
23	7.5	5.5	10.5	9.5	15.0	13.0	18.0	13.5	17.0	13.0	15.5	12.5
24	5.5	4.0	11.5	9.5	15.0	13.0	17.0	14.0	17.0	13.0	16.0	12.5
25	5.5	4.5	11.0	10.0	15.0	13.0	16.0	14.0	17.5	13.5	16.0	12.5
26	6.0	5.0	13.0	10.0	14.0	12.0	18.5	14.0	17.0	13.0	16.0	13.0
27	6.5	5.0	11.5	9.5	14.5	13.0	18.5	13.5	17.0	13.0	15.5	12.5
28	7.5	6.0	11.5	9.0	15.5	13.5	19.0	14.5	17.0	13.0	15.5	12.0
29	8.0	6.5	11.0	9.5	16.5	14.0	18.0	15.5	16.5	13.0	15.0	11.5
30	8.5	6.5	11.5	10.0	16.5	14.5	18.5	14.5	16.0	13.0	14.5	11.0
31	---	---	12.5	10.0	---	---	19.0	14.5	16.0	13.0	---	---
MONTH	8.5	4.0	13.0	6.5	16.5	10.0	19.0	11.5	19.5	12.5	17.0	11.0

11295400 STANISLAUS RIVER NEAR HATHAWAY PINES, CALIF.

LOCATION.--Lat 38°08'09", long 120°22'38", in NE¼NE¼ sec.12, T.3 N., R.14 E., Calaveras County, temperature recorder on downstream side of Camp Nine Road bridge at right bank pier, 0.8 mi (1.3 km) downstream from gaging station, 4.0 mi (6.4 km) southeast of Hathaway Pines, and 4.6 mi (7.4 km) east of Murphys.

DRAINAGE AREA.--629 mi^2 (1,629 km^2), at gaging station.

PERIOD OF RECORD.--Water temperatures: February 1970 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 18.0°C sometime during period July 3 to Aug. 12, and on Sept. 7; minimum, 2.5°C Mar. 2, 3.
Period of record:
Water temperatures: Maximum, 20.5°C July 30, 1973; minimum, 2.0°C Dec. 8, 1972.

REMARKS.--Clock stopped July 3 to Aug. 12; range in temperature, 12.0°C to 18.0°C.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	12.5	11.5	10.5	9.0	6.0	5.0	4.0	6.0	6.0	6.5	5.5
2	13.0	12.5	11.5	10.5	7.0	6.0	4.0	3.0	6.0	4.5	5.5	2.5
3	13.0	12.0	10.5	9.5	7.5	5.0	5.0	3.0	5.5	4.5	5.0	2.5
4	12.5	12.0	9.5	8.5	7.5	5.5	5.5	4.0	5.5	5.0	5.5	4.0
5	12.5	12.0	8.5	8.0	8.5	7.5	5.0	3.5	5.5	5.0	6.5	5.0
6	12.5	12.0	11.0	8.5	8.5	7.0	4.0	3.5	5.0	4.5	7.0	5.5
7	12.5	12.0	11.5	10.0	8.0	7.0	5.5	4.0	5.0	4.0	7.0	5.5
8	12.5	12.0	12.0	11.0	8.5	7.0	5.5	4.0	5.0	4.5	6.0	5.0
9	12.5	12.0	12.5	11.5	8.0	6.5	5.5	5.0	5.5	5.0	6.5	6.0
10	12.5	12.0	12.5	12.0	8.0	7.0	5.0	4.5	5.5	5.0	6.5	5.5
11	12.5	12.5	12.0	10.0	8.0	7.0	5.0	4.0	5.5	5.0	7.0	6.0
12	13.0	12.5	10.0	9.0	7.5	6.5	6.0	5.0	5.0	4.5	7.5	6.5
13	13.0	13.0	9.5	8.5	7.5	7.0	6.0	5.5	5.0	4.0	7.5	6.0
14	13.0	13.0	9.5	8.0	7.5	6.5	6.0	5.0	5.0	4.0	8.5	6.5
15	13.5	13.0	9.5	8.0	7.0	5.5	6.5	6.0	5.5	4.5	8.5	6.5
16	13.5	13.0	10.0	8.5	7.5	6.0	6.5	5.5	5.5	5.0	8.0	7.0
17	13.5	13.0	10.0	8.5	8.0	7.0	6.0	5.0	5.5	4.5	7.5	6.5
18	13.5	13.0	8.5	7.5	7.5	5.5	6.5	6.0	5.0	4.5	8.0	6.0
19	13.5	13.0	9.0	6.5	6.5	6.0	6.5	6.0	5.5	5.0	8.5	6.0
20	13.5	13.0	9.0	6.5	7.0	6.0	6.5	6.0	5.0	4.5	8.5	6.5
21	13.5	13.0	9.0	7.5	7.5	7.0	6.0	5.0	5.5	5.0	8.5	6.5
22	13.5	13.0	9.0	6.0	7.0	6.0	5.0	4.5	5.5	5.0	8.0	6.0
23	14.0	13.0	9.0	7.0	6.5	6.0	5.5	5.0	5.5	5.0	8.0	6.0
24	13.0	11.5	9.0	5.5	6.5	6.0	6.0	5.5	6.0	5.0	8.5	7.0
25	12.0	11.5	9.0	6.0	7.0	6.0	6.0	5.5	6.0	5.0	8.5	7.0
26	12.0	11.0	9.0	6.5	7.0	6.5	6.0	5.0	6.0	5.0	8.0	7.0
27	12.0	11.0	8.5	5.5	7.0	6.5	5.5	4.0	6.0	5.0	8.0	7.0
28	12.0	11.0	8.5	5.5	7.5	7.0	5.5	5.0	6.0	5.5	8.0	7.0
29	11.5	10.5	9.0	6.0	7.5	5.5	5.5	5.0	---	---	8.0	7.5
30	11.5	10.5	9.0	7.5	6.0	5.0	5.5	5.0	---	---	8.0	7.0
31	11.5	10.5	---	---	5.5	5.0	6.0	5.5	---	---	7.5	6.0
MONTH	14.0	10.5	12.5	5.5	9.0	5.0	6.5	3.0	6.0	4.0	8.5	2.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	7.0	11.0	8.5	13.5	11.5	16.0	13.5	---	---	14.5	13.5
2	7.5	6.5	10.5	7.5	13.5	12.0	15.5	13.0	---	---	16.5	14.0
3	8.5	6.0	10.5	7.5	14.0	12.0	---	---	---	---	15.5	14.0
4	9.0	6.5	11.0	7.5	14.0	12.0	---	---	---	---	15.5	14.0
5	9.5	7.0	11.5	7.5	14.0	12.0	---	---	---	---	14.5	14.0
6	10.0	7.5	11.5	8.0	14.5	12.5	---	---	---	---	15.5	14.0
7	9.5	7.5	11.5	8.0	14.5	12.0	---	---	---	---	18.0	14.5
8	9.5	8.0	11.5	8.0	14.5	12.0	---	---	---	---	16.5	14.0
9	9.0	7.0	11.5	8.0	14.5	12.5	---	---	---	---	15.5	14.0
10	8.5	6.5	11.5	8.0	14.5	12.5	---	---	---	---	15.0	13.5
11	9.5	7.0	12.0	9.0	15.0	13.0	---	---	---	---	15.0	14.0
12	10.0	8.0	11.5	9.0	15.0	13.0	---	---	---	---	16.0	13.5
13	10.0	7.5	11.5	8.5	15.5	13.0	---	---	16.0	14.0	16.0	14.0
14	9.5	8.0	11.5	9.0	15.5	13.5	---	---	16.0	13.5	15.0	13.5
15	9.5	8.0	11.5	8.5	15.0	13.0	---	---	16.0	13.5	15.0	13.5
16	9.5	7.0	11.0	8.5	15.0	12.5	---	---	16.5	14.0	15.0	13.5
17	10.0	7.5	10.0	8.5	15.0	12.5	---	---	16.0	14.0	16.0	13.5
18	10.0	7.5	10.0	8.0	14.5	12.5	---	---	15.5	14.0	15.5	13.5
19	9.0	7.0	10.5	8.5	14.0	12.0	---	---	16.0	14.0	16.0	13.5
20	10.0	7.5	11.0	8.0	14.5	12.0	---	---	16.0	14.0	14.5	13.5
21	10.5	7.5	11.5	9.0	15.0	12.5	---	---	15.5	14.0	15.5	13.5
22	10.5	8.0	12.0	10.0	15.5	13.0	---	---	16.0	14.0	15.5	14.0
23	10.0	7.5	12.0	9.5	16.0	13.0	---	---	17.0	14.0	16.0	14.0
24	7.5	5.5	12.5	9.5	15.5	13.0	---	---	17.0	14.0	17.0	14.0
25	8.0	5.5	13.0	9.5	15.0	12.5	---	---	16.5	14.0	16.5	14.0
26	8.5	7.0	13.5	10.0	14.5	12.0	---	---	17.0	14.0	15.0	14.0
27	9.5	6.5	13.5	10.5	15.0	12.0	---	---	16.0	14.0	16.0	14.0
28	10.5	7.5	13.0	11.0	16.0	12.0	---	---	14.5	14.0	15.0	14.0
29	11.0	8.5	12.5	10.5	15.5	13.0	---	---	15.0	13.5	15.0	14.0
30	11.0	8.5	13.0	11.0	16.0	13.5	---	---	15.5	13.5	15.0	14.0
31	---	---	13.5	11.0	---	---	---	---	14.5	13.5	---	---
MONTH	11.0	5.5	13.5	7.5	16.0	11.5	---	---	---	---	18.0	13.5

11299997 STANISLAUS RIVER BELOW TULLOCH POWERPLANT, NEAR KNIGHTS FERRY, CALIF.

LOCATION.--Lat 37°52'34", long 120°36'15", in Rancheria del Rio Estanislao Grant, T.1 S., R.12 E., on Calaveras-Tuolumne County line, temperature recorder in south corner of Tulloch powerplant at downstream side of Tulloch Dam, 5.2 mi (8.4 km) northeast of Knights Ferry.

DRAINAGE AREA.--980 mi^2 (2,538 km^2).

PERIOD OF RECORD.--Water temperatures: June 1972 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 21.5°C Sept. 17; minimum, 5.5°C sometime during the period Feb. 1 to Apr. 1.
Period of record:
Water temperatures: Maximum, 22.0°C on many days in 1972; minimum recorded, 5.0°C Jan. 13, 1973.

REMARKS.--No record Dec. 27 to Jan. 3. Recorder malfunction Feb. 1 to Apr. 1, recorded range in temperature, 5.5°C to 8.0°C.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	10.0	10.0	13.0	13.0	15.0	15.0	18.0	18.0	20.5	20.0
2	11.5	11.0	10.0	10.0	13.0	13.0	15.5	15.0	18.0	18.0	20.5	20.0
3	11.5	11.0	10.0	10.0	13.5	12.5	15.5	15.5	18.5	18.0	20.5	20.0
4	11.5	11.0	10.5	10.0	13.5	13.0	15.5	15.5	18.5	18.5	20.5	20.0
5	11.5	11.5	10.5	10.0	13.5	13.0	15.5	15.5	18.5	18.5	20.5	20.0
6	11.5	11.5	10.5	10.0	13.5	13.5	15.5	15.5	18.5	18.5	20.5	20.0
7	11.5	11.0	10.5	10.5	13.5	13.5	16.0	16.0	18.5	18.5	21.0	20.0
8	11.5	11.0	10.5	10.5	14.0	13.5	16.0	16.0	18.5	18.5	21.0	20.0
9	11.5	11.5	11.0	10.5	14.0	14.0	16.0	16.0	18.5	18.5	21.0	20.0
10	11.5	11.0	11.0	10.5	14.0	14.0	16.0	16.0	19.0	18.5	21.0	20.5
11	11.0	10.5	11.0	11.0	14.5	14.0	16.5	16.0	19.0	19.0	21.0	20.0
12	11.0	10.5	11.0	11.0	14.0	14.0	16.5	16.5	19.0	19.0	21.0	20.5
13	10.5	10.5	11.5	11.0	14.0	13.5	16.5	16.5	19.0	19.0	21.0	20.5
14	10.5	10.5	11.5	11.5	14.0	13.5	16.5	16.5	19.0	19.0	21.0	20.5
15	10.5	10.5	12.0	11.5	14.0	14.0	16.5	16.5	19.0	19.0	21.0	20.5
16	10.5	10.5	12.0	12.0	14.0	14.0	16.5	16.5	19.0	19.0	21.0	20.5
17	10.5	10.5	12.5	12.0	14.0	14.0	17.0	16.5	19.5	19.0	21.5	20.5
18	10.5	10.5	12.5	12.0	14.0	14.0	17.0	17.0	19.5	19.5	21.0	20.5
19	10.5	10.5	12.5	12.5	14.5	14.0	17.0	17.0	19.5	19.5	21.0	20.0
20	10.5	10.5	12.5	12.5	14.5	14.5	17.0	17.0	19.5	19.5	21.0	20.5
21	10.5	10.5	12.5	12.5	14.5	14.5	17.0	17.0	19.5	19.5	21.0	20.5
22	11.0	10.5	12.5	12.0	15.0	14.0	17.0	17.0	20.0	19.5	21.0	20.5
23	10.5	10.5	12.5	12.0	15.0	14.0	17.5	17.0	20.0	20.0	21.0	20.5
24	10.5	10.5	12.5	12.0	14.5	14.5	17.5	17.5	20.0	20.0	20.5	20.5
25	10.5	10.5	12.5	12.0	14.5	14.5	17.5	17.5	20.0	20.0	20.5	20.5
26	10.5	10.5	12.5	12.0	15.0	14.5	17.5	17.5	20.0	20.0	20.5	20.0
27	10.5	10.5	12.5	12.0	15.0	15.0	17.5	17.5	20.0	20.0	20.5	20.0
28	10.5	10.5	12.5	12.5	15.0	15.0	17.5	17.5	20.0	20.0	20.5	20.0
29	10.5	10.0	12.5	12.5	15.0	15.0	18.0	18.0	20.5	20.0	20.5	20.0
30	10.5	10.0	13.0	12.5	15.0	15.0	18.0	18.0	20.0	20.0	20.5	20.0
31	---	---	13.0	12.5	---	---	18.0	18.0	20.5	20.0	---	---
MONTH	11.5	10.0	13.0	10.0	15.0	12.5	18.0	15.0	20.5	18.0	21.5	20.0

11302000 STANISLAUS RIVER BELOW GOODWIN DAM, NEAR KNIGHTS FERRY, CALIF.

LOCATION.--Lat 37°51'28", long 120°38'03", in SW¼SE¼ sec.10, T.1 S., R.12 E., Tuolumne County, temperature recorder at cableway A-frame on left bank, 0.5 mi (0.8 km) upstream from Owl Creek, 0.5 mi (0.8 km) downstream from Goodwin Dam, and 3.3 mi (5.3 km) northeast of Knights Ferry.
DRAINAGE AREA.--986 mi² (2,554 km²), at gaging station.
PERIOD OF RECORD.--Water temperatures: February 1966 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 30.5°C July 25.
Period of record:
Water temperatures: Maximum, 30.5°C July 25, 1974; minimum (1966-68, 1969 to current year), 5.5°C Feb. 3, 1972.
REMARKS.--Temperature recorder 0.5 mi (0.8 km) upstream from gaging station. Recorder malfunction Nov. 19 to Dec. 4, Dec. 20 to Feb. 1.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	18.5	15.5	14.5	---	---			---	---	8.0	7.5
2	21.0	16.5	15.0	14.5	---	---			8.0	8.0	8.0	8.0
3	21.0	16.5	15.0	14.0	---	---			8.0	8.0	8.0	8.0
4	21.0	16.0	14.5	13.5	---	---			6.5	6.0	8.0	8.0
5	21.0	16.5	13.5	13.5	10.0	10.0			6.5	6.0	7.5	7.0
6	20.0	17.0	14.0	13.5	10.0	10.0			6.5	6.0	7.5	7.5
7	18.5	16.5	15.0	14.0	10.0	10.0			6.5	6.0	8.0	7.5
8	17.0	16.0	15.0	14.0	10.0	10.0			6.5	6.0	8.0	8.0
9	19.5	14.5	14.5	14.0	10.0	9.5			7.5	6.0	8.5	8.5
10	18.5	15.5	14.5	14.5	9.5	9.5			6.5	6.0	7.5	7.5
11	19.5	15.5	14.5	14.5	10.0	9.5			6.5	6.0	7.5	7.5
12	20.5	15.5	14.5	14.0	9.5	9.5			6.5	6.0	7.5	7.5
13	21.5	16.5	14.5	14.0	9.5	9.5			6.5	6.0	8.5	7.0
14	22.0	16.5	14.5	14.0	9.5	9.0			6.5	6.5	8.0	7.0
15	21.5	17.0	14.0	13.5	9.5	9.0			6.5	6.5	8.0	7.0
16	22.0	17.0	13.5	13.0	9.0	9.0			6.5	6.5	9.0	8.0
17	21.5	15.5	13.0	12.5	9.5	9.0			7.0	6.0	10.0	9.0
18	16.0	15.0	13.0	12.0	9.5	8.5			6.5	6.0	10.5	10.0
19	15.5	15.0	---	---	9.5	8.5			6.5	6.5	10.5	7.5
20	16.0	15.5	---	---	---	---			6.5	6.0	8.0	7.5
21	16.0	15.5	---	---	---	---			6.5	6.5	8.0	7.5
22	16.0	15.5	---	---	---	---			7.0	6.5	8.0	7.5
23	18.5	14.5	---	---	---	---			7.0	6.0	8.0	7.5
24	18.0	14.0	---	---	---	---			7.0	6.5	8.5	7.5
25	18.0	13.5	---	---	---	---			7.0	6.5	10.5	8.0
26	18.0	13.5	---	---	---	---			7.0	6.5	10.0	9.0
27	18.5	13.5	---	---	---	---			7.5	6.5	10.0	9.0
28	18.0	13.5	---	---	---	---			7.5	7.5	10.5	9.5
29	16.0	13.5	---	---	---	---			---	---	11.0	10.5
30	15.5	14.5	---	---	---	---			---	---	12.0	10.0
31	15.5	15.0	---	---	---	---			---	---	10.5	10.0
MONTH	22.0	13.5	---	---	---	---			8.0	6.0	12.0	7.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.5	12.0	11.0	15.0	14.5	27.5	21.5	29.0	23.5	25.0	21.5
2	10.0	10.0	12.0	11.0	15.0	14.5	27.5	21.5	29.5	24.0	25.5	22.0
3	10.5	10.0	12.0	11.0	15.5	14.5	28.0	21.5	29.0	24.5	25.0	21.5
4	10.5	10.5	12.5	11.5	15.5	14.5	28.5	22.0	28.0	24.0	25.0	21.5
5	11.0	10.5	12.5	11.5	16.5	15.0	28.5	22.0	28.5	24.0	25.0	21.5
6	11.5	10.5	14.5	11.5	16.5	15.5	27.5	22.0	29.0	24.0	25.5	22.0
7	11.5	10.5	13.0	12.0	16.5	15.5	27.0	21.0	28.5	24.5	26.0	22.5
8	11.5	10.5	13.0	12.5	16.0	15.5	23.5	21.5	28.0	23.5	25.5	22.0
9	11.0	10.5	13.0	12.0	16.5	15.5	21.5	19.5	28.0	23.5	25.0	21.5
10	11.0	10.5	13.0	12.0	16.5	15.5	19.0	16.0	27.5	23.5	25.5	21.5
11	11.0	10.0	13.5	12.5	16.5	15.0	24.0	16.5	27.5	23.5	25.5	22.0
12	11.0	10.5	13.5	12.5	16.5	14.5	25.5	19.0	27.5	23.0	25.0	22.0
13	11.0	10.0	13.5	12.5	16.5	15.0	27.0	20.0	27.0	22.5	24.5	21.5
14	11.0	10.0	14.0	13.0	16.0	14.5	28.0	21.0	26.5	22.0	24.5	21.0
15	11.0	10.0	14.0	13.0	16.0	15.5	27.5	21.5	26.5	22.0	24.5	21.0
16	11.0	10.0	14.0	13.5	16.5	15.5	27.0	21.0	26.0	22.0	24.5	21.0
17	11.0	10.0	14.0	13.5	16.5	15.5	27.5	21.5	26.0	21.5	24.5	21.0
18	11.0	10.0	14.0	13.5	16.5	15.0	28.0	22.0	25.5	21.5	24.5	21.0
19	11.0	10.5	14.0	13.5	15.5	14.5	29.0	23.0	25.5	21.5	24.0	21.0
20	11.5	10.5	14.5	13.5	16.0	14.5	29.0	23.5	25.0	21.0	24.0	21.0
21	11.5	10.5	14.5	13.5	16.0	14.5	29.0	23.0	25.5	21.5	24.5	21.0
22	12.0	10.5	15.0	13.0	16.5	14.5	29.0	23.0	26.0	22.0	24.0	21.0
23	10.5	10.0	14.5	13.0	16.0	14.5	29.5	23.5	26.0	22.0	24.0	21.0
24	10.5	10.0	16.0	13.0	16.0	14.5	29.5	24.0	26.5	22.5	24.0	21.0
25	11.0	10.0	23.0	14.5	16.0	15.0	30.5	25.5	26.0	22.5	23.0	21.0
26	11.5	10.0	24.5	17.5	16.5	14.5	30.0	25.0	26.5	22.5	23.0	20.0
27	12.0	11.0	21.0	14.0	21.0	14.5	29.5	24.5	26.0	22.5	23.0	20.0
28	12.0	11.0	15.0	14.0	25.0	17.5	29.0	24.0	25.5	22.0	23.0	20.0
29	12.5	11.5	15.0	14.0	27.0	20.0	28.0	23.5	25.5	22.0	23.0	19.5
30	12.5	11.5	15.0	14.5	27.5	21.0	29.0	23.5	25.0	22.0	22.0	19.0
31	---	---	15.0	14.5	---	---	27.5	24.0	25.0	22.0	---	---
MONTH	12.5	9.5	24.5	11.0	27.5	14.5	30.5	16.0	29.5	21.0	26.0	19.0

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.

(International Hydrological Decade River and national stream-quality accounting network station)

LOCATION.--Lat 37°40'34", long 121°15'55", in El Pescadero Grant, San Joaquin County, at gaging station on left bank, 12 ft (4 m) downstream from Durham Ferry highway bridge, 2.6 mi (4.2 km) downstream from Stanislaus River, and 3.2 mi (5.1 km) northeast of Vernalis.

DRAINAGE AREA.--13,536 mi^2 (35,058 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1950 to current year.
Specific conductance: January 1973 to current year.
Water temperatures: March 1951 to current year.
Sediment records: November 1956 to current year.
Turbidity: July 1972 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 28.5°C July 25; minimum, 7.5°C Jan. 8-10.
Sediment concentrations: Maximum daily, 360 mg/l Dec. 29; minimum daily, 36 mg/l Feb. 17.
Sediment discharge: Maximum daily, 6,240 tons (5,660 tonnes) Dec. 29; minimum daily, 216 tons (196 tonnes) Nov. 9.
Period of record:
Water temperatures: Maximum, 30.0°C July 7, 1970; minimum, 3.0°C Jan. 24, 1962.
Sediment concentrations: Maximum daily, 1,590 mg/l Dec. 25, 1964; minimum daily, 9 mg/l Jan. 4, 1960, Nov. 18, 1961.
Sediment discharge: Maximum daily, 54,100 tons (49,100 tonnes) Dec. 25, 1964; minimum daily, 2 tons (1.8 tonnes) Aug. 10, 1961.

REMARKS.--Selected chemical-quality samples collected by California Department of Water Resources. Mean daily specific conductance records furnished by Bureau of Reclamation.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
18...	0745	2510	17	20	23	11	53	3.5	105	0
31...	0930	2840	16	--	20	9.1	43	3.2	86	0
NOV.										
16...	0830	1920	19	30	31	15	70	3.3	130	0
29...	1000	2900	14	40	21	10	46	2.4	82	0
DEC.										
18...	0920	3460	--	--	--	--	--	--	--	--
19...	0900	3500	14	50	20	9.1	41	2.1	78	0
JAN.										
29...	0800	8770	14	60	19	7.6	32	1.8	68	0
FEB.										
12...	1300	4400	15	30	24	12	56	2.3	90	0
22...	0740	3690	16	30	25	12	55	2.3	90	0
MAR.										
12...	1200	5470	--	--	--	--	--	--	--	--
21...	0730	4000	16	0	28	14	61	2.6	92	0
APR.										
18...	0730	5310	16	40	24	12	53	2.1	75	0
23...	0915	4380	--	--	--	--	--	--	--	--
MAY										
22...	0940	3800	--	1500	--	--	--	--	--	--
24...	0800	2730	17	30	31	15	60	2.7	115	0
JUNE										
19...	1015	3970	--	--	--	--	--	--	--	--
20...	0645	3550	16	30	23	10	43	2.6	88	0
JULY										
09...	0930	1720	--	--	--	--	--	--	--	--
25...	0735	1400	20	30	41	20	83	4.0	153	0
AUG.										
06...	0920	1320	--	--	--	--	--	--	--	--
22...	0750	1730	18	30	32	16	68	4.2	133	0
SEP.										
10...	1030	2270	19	40	28	13	56	4.1	118	0
19...	0700	3070	16	10	20	7.8	40	2.8	92	0

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (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)
OCT.										
18...	42	70	.2	--	--	--	.92	--	--	.52
31...	32	57	.2	--	--	.71	--	--	--	.39
NOV.										
16...	49	93	.1	--	--	--	1.2	--	--	.25
29...	41	59	.2	--	--	.68	--	.57	1.3	.11
DEC.										
18...	--	--	--	.70	.03	.73	--	.66	1.4	.16
19...	40	54	.2	--	--	--	.77	--	--	.10
JAN.										
29...	34	38	.0	--	--	--	.43	--	--	.16
FEB.										
12...	52	67	.2	--	--	.69	--	.46	1.2	.16
22...	52	70	.2	--	--	--	.84	--	--	.16
MAR.										
12...	--	--	--	.82	.02	.84	--	71	1.6	.14
21...	71	75	.3	--	--	--	2.3	--	--	.18
APR.										
18...	63	61	.0	--	--	--	.64	--	--	.16
23...	--	--	--	--	--	.73	--	.63	1.4	.19
MAY										
22...	--	--	--	--	--	--	--	--	--	--
24...	50	82	.2	--	--	--	.75	--	--	.30
JUNE										
19...	--	--	--	--	--	.47	--	.93	1.4	.19
20...	38	53	.1	--	--	--	.60	--	--	.22
JULY										
09...	--	--	--	--	--	1.1	--	1.5	2.6	.29
25...	63	130	.1	--	--	--	.93	--	--	.31
AUG.										
06...	--	--	--	--	--	.83	--	1.4	2.2	.32
22...	48	94	.1	--	--	--	.94	--	--	.28
SEP.										
10...	43	74	.1	--	--	.70	--	.48	1.2	.26
19...	29	52	.1	--	--	--	.55	--	--	.24

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)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.									
18...	--	276	.38	1870	100	17	494	7.7	18.0
31...	--	223	.30	1710	87	17	403	7.6	15.0
NOV.									
16...	--	351	.48	1820	140	33	500	7.4	13.0
29...	241	234	.33	1890	94	26	415	7.7	10.5
DEC.									
18...	--	--	--	--	--	--	361	7.8	9.5
19...	--	223	.30	2110	88	24	350	7.2	9.0
JAN.									
29...	--	182	.25	4310	79	23	317	8.2	8.5
FEB.									
12...	284	273	.39	3370	110	36	485	7.9	10.0
22...	--	281	.38	2800	110	36	350	7.3	9.0
MAR.									
12...	--	--	--	--	--	--	357	7.6	11.5
21...	--	324	.44	3500	130	55	500	7.2	13.0
APR.									
18...	--	272	.37	3900	110	48	400	7.7	14.0
23...	--	--	--	--	--	--	479	7.8	15.5
MAY									
22...	--	--	--	--	--	--	410	7.9	17.5
24...	--	319	.43	2350	140	46	500	7.6	20.0
JUNE									
19...	--	--	--	--	--	--	316	8.0	20.5
20...	--	232	.32	2220	99	27	400	7.2	20.0
JULY									
09...	--	--	--	--	--	--	751	8.4	21.0
25...	--	441	.60	1670	190	60	900	7.6	27.0
AUG.									
06...	--	--	--	--	--	--	759	8.8	25.0
22...	--	351	.48	1640	150	37	600	7.2	22.0
SEP.									
10...	297	295	.40	1820	120	27	506	7.8	22.5
19...	--	216	.29	1790	82	7	338	7.2	20.0

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)
OCT.									
18...	20	--	--	--	--	--	20	0	330
31...	--	--	1800	600	20	--	--	--	--
NOV.									
16...	20	7.8	--	--	--	--	250	0	410
29...	20	--	2500	--	200	6.0	--	--	--
DEC.									
18...	--	--	2500	500	580	--	--	--	--
19...	9	9.9	--	--	--	--	170	0	240
JAN.									
29...	20	11.0	--	--	--	--	200	0	190
FEB.									
12...	20	--	178	B110	B100	4.7	--	--	--
22...	20	10.7	--	--	--	--	230	0	320
MAR.									
12...	--	--	850	480	800	--	--	--	--
21...	20	9.6	--	--	--	--	280	--	--
APR.									
18...	20	9.7	--	--	--	--	290	20	280
23...	--	--	--	580	405	--	--	--	--
MAY									
22...	--	--	--	175	255	5.0	--	--	--
24...	40	8.5	--	--	--	--	210	10	370
JUNE									
19...	--	--	--	420	900	--	--	--	--
20...	30	8.0	--	--	--	--	160	0	250
JULY									
09...	--	--	--	390	600	--	--	--	--
25...	40	7.2	--	--	--	--	280	10	470
AUG.									
06...	--	--	--	1100	900	--	--	--	--
22...	30	7.4	--	--	--	--	230	0	360
SEP.									
10...	6	--	--	2300	B260	4.7	--	--	--
19...	20	7.6	--	--	--	--	100	0	230

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
1973				
OCT.				
31...	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Agmenellum*		460,000	86
	TOTAL PHYTOPLANKTON		530,000	
NOV.				
29...	CHROSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Melosira*		7,900	24
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Agmenellum*		15,000	45
	TOTAL PHYTOPLANKTON		33,000	
DEC.				
18...	CHOROPHYTA	Green algae		
	.Chlorophyceae			
	....*Ulothrix*		1,200	20
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Lymgbya*		2,800	47
	TOTAL PHYTOPLANKTON		6,000	

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family ....Genus .....Species	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
1974 FEB. 12...	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Anacystis*		3,400	24
	TOTAL PHYTOPLANKTON		14,000	
MAR. 12...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	....*Scenedesmus*		2,200	18
	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Melosira*		3,100	26
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Oscillatoria*		2,500	21
	TOTAL PHYTOPLANKTON		12,000	
APR. 23...	CHYRSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Asterionella*		1,900	32
	....*Cyclotella*		2,000	34
	TOTAL PHYTOPLANKTON		5,800	
MAY 22...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	....*Scenedesmus*		3,800	29
	CHRYOSPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Cyclotella*		3,800	29
	....*Melosira*		2,500	19
	....*Noricula*		2,300	18
	TOTAL PHYTOPLANKTON		13,000	
JUNE 19...	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Cyclotella*		3,600	21
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Oscillatoria*		3,600	21
	TOTAL PHYTOPLANKTON		17,000	
1974 JULY 09...	CHYRSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Cyclotella*		12,000	40
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Lyngbya*		4,600	16
	TOTAL PHYTOPLANKTON		29,000	
AUG. 06...	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Cyclotella*		7,800	25
	CYANOPHYTA			
	.Myxophyceae			
	....*Oscillatoria*		13,000	42
	TOTAL PHYTOPLANKTON		31,000	
SEP. 10...	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Cyclotella*		3,400	16
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Agmenellum*		10,000	48
	....*Oscillatoria*		4,200	20
	TOTAL PHYTOPLANKTON		21,000	

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

BENTHIC INVERTEBRATES 1/

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	ORGANISM COUNT
1973			
DEC.			
18...	ARTHROPODA		
	.Crustacea		
	..Isopoda	Sow-bugs	6
	.Insecta		
	..Diptera	Two-winged flies	
	...Chironomidae		20
	...Simuliidae	Blackflies	5
	..Ephemeroptera	Mayflies	3
	..Trichoptera	Caddisflies	1
	BRYOZOA		
	.Entoprocta		1
	NEMATAMORPHA	Horse-hair worms	106
		TOTAL	142

1/ Collected with a multiplate artificial substrate.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)
NOV.											
29...	1000	2000	110	100	10	100	99	1	<10	10	0
FEB.											
12...	1300	1500	130	97	33	2	1	1	10	9	1
MAY											
22...	0940	3700	150	120	30	3	1	2	<10	<10	0
SEP.											
10...	1030	5800	180	180	0	3	0	3	<10	<10	0

DATE	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)
NOV.										
29...	0	0	<10	10	0	10	0	10	<100	99
FEB.										
12...	0	0	<50	<50	0	10	0	12	<100	<98
MAY										
22...	0	0	<50	<49	1	20	9	11	<100	<99
SEP.										
10...	0	0	<50	<50	0	<10	<3	7	<100	<99

DATE	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV.										
29...	1	.1	.1	.0	4	0	4	30	30	0
FEB.										
12...	2	.2	.1	.1	2	0	4	50	30	20
MAY										
22...	1	.2	.0	.2	2	2	0	80	60	20
SEP.										
10...	1	.3	.3	.0	0	0	0	30	10	20

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	457	522	---	333	---	361	447	308	747	895	588
2	825	527	581	---	322	---	341	406	277	869	863	520
3	798	576	559	393	304	---	337	407	283	918	673	530
4	653	608	544	334	392	---	---	---	274	772	628	518
5	---	646	535	318	413	---	---	---	295	902	---	538
6	501	678	442	318	435	435	---	---	301	822	---	546
7	567	698	498	313	457	293	---	---	314	825	---	561
8	---	815	---	313	---	303	---	459	320	848	---	538
9	---	884	492	264	476	307	---	438	290	823	---	506
10	531	841	556	---	481	331	393	378	269	696	---	587
11	---	636	566	285	495	347	409	341	207	647	---	539
12	504	636	567	328	512	374	400	354	249	682	---	513
13	468	642	537	328	476	378	---	383	348	---	647	459
14	462	---	586	416	428	398	---	374	364	---	768	602
15	518	666	577	429	398	366	381	337	440	---	727	622
16	616	685	---	392	422	382	395	314	369	---	---	659
17	---	699	---	373	457	406	418	314	298	---	---	590
18	---	699	430	360	501	448	436	320	294	---	---	521
19	---	---	---	339	556	501	416	349	389	---	621	462
20	---	596	---	363	585	458	426	386	445	923	596	424
21	---	510	470	349	559	481	454	378	461	721	485	424
22	---	408	438	331	481	474	493	468	623	676	568	429
23	---	420	384	334	460	483	528	568	---	694	533	436
24	---	475	410	342	462	487	609	610	708	879	545	456
25	---	---	375	324	482	484	646	573	---	492	607	430
26	---	---	405	304	509	478	624	676	---	790	626	425
27	---	---	448	307	506	393	632	657	---	755	573	440
28	---	449	449	326	504	424	514	701	558	---	541	437
29	---	410	---	353	---	401	479	494	624	864	541	---
30	581	446	---	326	---	411	445	360	910	872	545	453
31	465	---	---	---	---	375	---	270	---	904	532	---
MONTH	---	604	---	339	459	408	---	436	393	---	---	509

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	13.5	18.0	17.0	19.5	18.5	26.0	23.5	26.0	23.0	23.5	21.5
2	14.0	13.0	17.0	16.0	20.0	18.5	25.0	23.0	27.5	24.5	24.0	22.0
3	14.0	13.0	17.0	16.0	20.5	19.0	25.5	23.0	27.5	25.0	23.5	22.0
4	14.0	13.5	17.5	16.0	20.5	19.5	26.0	23.5	27.0	25.0	23.5	22.0
5	14.5	14.0	18.0	16.5	21.0	20.0	25.5	23.5	26.0	24.5	24.0	22.0
6	15.0	14.0	18.0	16.5	21.5	20.0	25.0	23.0	27.0	24.5	24.5	22.5
7	15.5	14.5	19.5	17.0	21.0	20.0	23.5	21.5	27.0	24.5	24.5	23.0
8	15.5	15.0	19.5	18.0	20.5	19.5	22.0	20.5	26.0	23.5	24.0	22.5
9	15.0	14.5	19.0	18.0	21.0	19.5	21.0	20.0	26.0	24.0	23.5	22.0
10	15.0	14.0	18.0	17.0	22.0	20.5	22.0	19.5	26.0	24.0	24.0	22.0
11	15.5	14.0	17.0	16.0	21.5	20.5	22.5	19.5	25.5	23.5	23.5	22.5
12	15.5	14.5	17.5	16.0	22.0	20.5	23.0	20.5	25.5	23.0	22.5	21.5
13	15.5	14.5	17.5	16.0	22.5	21.0	24.0	21.5	24.5	22.5	22.0	21.0
14	15.5	14.5	17.0	16.0	22.5	21.0	25.0	22.0	24.5	21.5	22.0	20.5
15	15.5	14.5	17.0	16.0	23.0	21.0	24.5	22.5	24.5	22.0	22.5	21.0
16	15.5	14.5	16.5	15.5	22.0	21.0	24.0	21.5	24.5	22.0	22.5	21.0
17	15.5	15.0	15.5	15.0	21.5	20.5	24.5	21.5	23.5	21.5	22.5	21.0
18	15.0	14.0	15.5	14.5	21.5	20.0	25.5	22.5	23.0	21.0	22.0	21.0
19	14.5	13.5	15.5	14.5	21.5	20.5	26.5	23.5	22.5	21.0	21.0	20.0
20	15.0	14.0	17.0	15.5	23.0	20.5	27.0	24.0	23.0	20.5	20.5	19.5
21	16.0	14.5	17.5	16.0	24.5	21.5	26.0	24.0	24.0	21.0	20.5	19.0
22	17.0	15.5	19.0	17.0	25.0	23.0	26.0	23.5	24.5	22.0	20.5	19.0
23	16.0	15.5	20.5	18.0	24.5	22.5	26.5	24.0	25.0	22.5	20.5	19.0
24	16.0	15.0	21.5	19.0	24.0	22.0	28.0	25.0	25.5	23.0	20.5	19.5
25	16.5	15.0	22.5	20.0	23.5	21.5	28.5	26.5	25.5	23.5	20.0	19.5
26	16.5	15.0	24.0	21.5	23.5	21.0	28.0	26.0	25.0	23.0	19.5	18.5
27	17.0	15.0	25.0	22.5	23.5	21.0	27.0	25.0	24.5	23.0	19.5	18.5
28	16.5	15.5	24.0	22.0	24.5	21.5	26.5	24.0	24.0	22.0	19.5	18.5
29	17.5	15.5	22.5	19.5	26.0	23.0	26.0	23.5	23.5	21.5	19.5	18.5
30	18.5	16.5	19.5	18.5	26.0	23.5	26.0	23.5	23.0	21.5	19.5	18.5
31	---	---	19.0	18.0	---	---	25.0	23.5	23.0	21.0	---	---
MONTH	18.5	13.0	25.0	14.5	26.0	18.5	28.5	19.5	27.5	20.5	24.5	18.5
YEAR	28.5	7.5										

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	1760	68	323	2960	60	480	2900	54	423
2	1660	72	323	2910	57	448	2930	51	403
3	1800	74	360	2580	56	390	2960	50	400
4	2060	76	423	2400	50	324	2960	46	368
5	2910	133	1040	2240	46	278	2960	41	328
6	2900	75	587	2110	44	251	2990	53	428
7	2450	81	536	2060	56	311	2990	46	371
8	2900	92	720	1810	46	225	3000	49	397
9	3000	72	583	1700	47	216	2990	47	379
10	2820	75	571	1770	63	301	2910	43	338
11	2830	78	596	1860	75	377	2870	40	310
12	2770	71	531	1870	74	374	2860	37	286
13	2650	65	465	1870	62	313	2910	39	306
14	2520	70	476	1890	68	347	2920	44	347
15	2430	63	413	1910	67	346	2860	56	432
16	2230	68	409	1920	63	327	3200	75	648
17	2190	73	432	1930	60	313	3460	68	635
18	2520	76	517	1960	61	323	3460	59	551
19	2740	73	540	1980	58	310	3500	60	567
20	2900	68	532	2110	59	336	3520	56	532
21	2950	67	534	2390	81	523	3550	58	556
22	2620	66	467	2710	80	585	3780	63	643
23	2340	71	449	2770	64	479	3910	66	697
24	2180	60	353	2590	59	413	3910	64	676
25	2450	62	410	2440	52	343	3840	64	664
26	2700	59	430	2500	46	311	3770	62	631
27	2910	61	479	2610	44	310	3870	69	721
28	2950	75	597	2780	53	398	4730	140	1790
29	2610	60	423	2900	57	446	6420	360	6240
30	2370	63	403	2900	59	462	6320	166	2830
31	2820	69	525	---	---	---	5930	114	1830
MONTH	78940	---	15447	68430	---	10860	111180	---	25727

	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	5830	102	1610	8600	61	1420	3420	48	443
2	5760	82	1280	8360	62	1400	3460	56	523
3	5770	84	1310	7880	71	1510	4510	105	1280
4	6360	145	2490	7320	60	1190	5070	111	1520
5	6800	85	1560	6750	54	984	4900	116	1530
6	6890	75	1400	6670	50	900	4920	100	1330
7	6940	71	1330	6350	48	823	5520	133	1980
8	7070	99	1890	5910	49	782	6020	126	2050
9	7830	153	3230	5550	46	689	6240	75	1260
10	8110	119	2610	5380	49	712	6190	69	1150
11	8200	108	2390	4930	48	639	5800	73	1140
12	8290	87	1950	4490	50	606	5490	73	1080
13	7980	94	2030	4670	50	630	5360	74	1070
14	7180	69	1340	4970	48	644	5180	66	923
15	6450	76	1320	5070	42	575	4860	67	879
16	6740	74	1350	4950	41	548	4380	62	733
17	6770	66	1210	4530	36	440	4200	63	714
18	6840	91	1680	4140	38	425	4090	56	618
19	7710	100	2080	3670	46	456	3990	55	593
20	8290	108	2420	3500	46	435	4060	72	789
21	8180	94	2080	3540	49	468	4000	64	691
22	8050	89	1930	3670	44	436	3900	59	621
23	8820	92	2190	3760	42	426	3850	59	613
24	8990	94	2280	3730	41	413	3780	58	592
25	9380	87	2200	3650	47	463	3850	58	603
26	9650	85	2210	3500	49	463	3920	67	709
27	9700	95	2490	3550	45	431	4870	103	1350
28	9330	86	2170	3530	47	448	5490	87	1290
29	8830	77	1840	---	---	---	5940	78	1250
30	9340	70	1770	---	---	---	5910	96	1530
31	9140	63	1550	---	---	---	6160	81	1350
MONTH	241220	---	59190	142620	---	19356	149330	---	32204

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	6470	104	1820	4210	84	955	4920	106	1410
2	6880	114	2120	3910	95	1000	5130	94	1300
3	7820	124	2620	3890	85	893	5370	96	1390
4	8100	100	2190	3970	85	911	5340	86	1240
5	7960	106	2280	4080	85	936	5100	76	1050
6	8350	114	2570	4180	80	903	4930	76	1010
7	8530	99	2280	3950	79	843	4930	86	1140
8	8300	92	2060	3620	84	821	4910	80	1060
9	7600	81	1660	4080	80	881	5230	84	1190
10	7120	87	1670	4510	103	1250	5670	90	1380
11	6650	84	1510	4960	99	1330	5730	97	1500
12	6400	85	1470	5170	93	1300	4880	151	1990
13	6380	83	1430	5070	89	1220	3970	147	1580
14	6430	84	1460	4900	85	1120	3750	120	1220
15	6250	87	1470	5040	86	1170	3310	126	1130
16	5880	96	1520	5390	93	1350	3840	113	1170
17	5530	90	1340	5440	90	1320	4400	100	1190
18	5300	94	1350	5350	77	1110	4370	88	1040
19	5290	78	1110	5240	70	990	3890	84	882
20	5290	69	986	5080	69	946	3360	101	916
21	5110	87	1200	4620	76	948	2800	107	809
22	4580	93	1150	3760	108	1100	2500	110	743
23	4230	85	971	3020	133	1080	2360	109	695
24	3570	102	983	2700	121	882	2400	113	732
25	3340	94	848	2560	112	774	2330	96	604
26	3180	93	798	2460	109	724	2350	94	596
27	3100	91	762	2390	109	703	2220	104	623
28	3650	108	1060	2260	108	659	2070	114	637
29	4040	96	1050	3120	125	1050	1900	135	693
30	4170	86	968	3830	106	1100	1840	149	740
31	---	---	---	4540	128	1570	---	---	---
MONTH	175500	---	44706	127300	---	31839	115800	---	31660

	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	1840	148	735	1300	156	548	2170	103	603
2	1700	160	734	1300	160	562	2300	108	671
3	1600	164	708	1260	151	514	2260	99	604
4	1570	156	661	1340	167	604	2220	107	641
5	1630	174	766	1380	163	607	2220	104	623
6	1620	160	700	1310	184	651	2210	109	650
7	1600	148	639	1260	166	565	2220	109	653
8	1700	148	679	1340	173	626	2360	106	675
9	1760	153	727	1370	182	673	2400	104	674
10	2040	144	793	1380	178	663	2280	98	603
11	2160	111	647	1370	163	603	2390	94	607
12	2070	125	699	1430	183	707	2560	94	650
13	2000	129	697	1320	179	638	2500	94	635
14	2070	138	771	1290	173	603	2450	84	556
15	1970	142	755	1380	203	756	2420	82	536
16	1740	155	728	1590	191	820	2400	81	525
17	1610	161	700	1700	161	739	2420	77	503
18	1520	162	665	1820	173	850	2680	107	774
19	1410	151	575	1880	168	853	3150	110	936
20	1400	176	665	1840	154	765	3500	126	1190
21	1520	190	780	1810	136	665	3630	103	1010
22	1550	191	799	1740	121	568	3620	96	938
23	1410	186	708	1810	145	709	3650	97	956
24	1340	175	633	1820	148	727	3480	86	808
25	1400	175	662	1970	142	755	3520	88	836
26	1430	191	737	2050	133	736	3630	81	794
27	1470	194	770	2000	122	659	3640	73	717
28	1440	179	696	1910	125	645	3670	72	713
29	1430	182	703	1990	113	607	3660	75	741
30	1410	174	662	2020	103	562	3760	89	904
31	1320	149	531	2080	103	578	---	---	---
MONTH	50730	---	21725	50060	---	20558	85370	---	21726
YEAR	1396480		334998						

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT,
WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
OCT.								
16...	1315	19.0	2210	54	322	--	--	--
31...	0930	15.0	2840	71	544	--	--	--
NOV.								
08...	1220	15.5	1790	37	179	--	--	--
29...	1000	10.5	2900	61	478	--	--	--
DEC.								
10...	1250	10.0	2900	43	337	--	--	--
18...	0920	9.5	3460	57	532	--	--	--
JAN.								
08...	1200	7.5	6960	67	1260	--	--	--
09...	1100	7.5	7870	141	3000	--	--	--
12...	1000	9.0	8350	76	1710	--	--	--
14...	1000	10.0	7300	61	1200	--	--	--
23...	1030	9.0	8820	84	2000	--	--	--
26...	1030	9.0	9660	74	1930	--	--	--
FEB.								
11...	1130	9.5	4980	43	578	--	--	--
17...	0930	10.0	4620	33	412	--	--	--
18...	1130	10.0	4170	34	383	--	--	--
MAR.								
29...	1400	14.0	5990	71	1150	--	--	--
MAY								
08...	1315	19.0	3740	86	868	--	--	--
09...	0900	18.0	4020	81	879	--	--	--
JUNE								
18...	1230	21.0	4300	83	964	--	--	--
19...	1015	20.5	3970	88	943	--	--	--
AUG.								
05...	1200	25.0	1410	157	598	49	62	75
17...	0840	22.0	1690	149	680	--	--	--
SEP.								
10...	1030	22.5	2270	93	570	--	--	--
16...	0805	21.0	2420	75	490	--	--	--

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	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.								
16...	--	--	96	99	100	--	--	--
31...	--	--	56	--	--	--	--	--
NOV.								
08...	--	--	80	90	100	--	--	--
29...	--	--	72	--	--	--	--	--
DEC.								
10...	--	--	63	78	100	--	--	--
18...	--	--	68	--	--	--	--	--
JAN.								
08...	--	--	61	68	84	95	100	--
09...	--	--	45	64	92	100	--	--
12...	--	--	64	71	91	100	--	--
14...	--	--	76	82	94	99	100	--
23...	--	--	55	62	82	99	100	--
26...	--	--	61	68	85	98	100	--
FEB.								
11...	--	--	88	91	96	100	--	--
17...	--	--	86	90	97	100	--	--
18...	--	--	89	91	97	100	--	--
MAR.								
29...	--	--	72	81	93	100	--	--
MAY								
08...	--	--	80	86	94	100	--	--
09...	--	--	78	85	96	100	--	--
JUNE								
18...	--	--	82	88	97	100	--	--
19...	--	--	83	--	--	--	--	--
AUG.								
05...	87	96	99	100	--	--	--	--
17...	--	--	95	98	100	--	--	--
SEP.								
10...	--	--	74	--	--	--	--	--
16...	--	--	80	92	100	--	--	--

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
OCT.			
01...	1100	73	20
02...	0930	78	20
03...	0900	80	20
04...	1130	80	15
05...	0800	142	25
06...	0700	83	15
07...	0800	91	20
08...	0800	102	20
09...	0930	82	20
10...	0830	84	15
11...	1030	89	20
12...	1030	83	15
13...	1030	74	20
14...	1100	83	20
15...	1100	73	20
16...	0930	82	20
16...	1315	54	20
16...	1340	73	20
17...	1030	87	20
18...	0745	--	20
18...	0930	89	20
19...	1330	81	15
20...	0830	75	15
21...	0900	73	15
22...	1000	70	15
23...	0830	80	20
24...	1130	62	15
25...	1330	67	10
26...	1100	62	15
27...	0800	61	10
28...	0830	82	15
29...	0830	60	15
30...	0800	62	15
31...	0830	72	15
31...	0930	71	--
NOV.			
01...	1130	60	15
02...	0930	58	15
03...	1030	56	15
04...	0830	51	10
05...	0800	44	10
06...	1000	44	10
07...	1000	56	10
08...	1000	46	15
08...	1200	42	10
08...	1220	37	10
08...	1245	42	10
09...	1030	47	15
10...	0900	61	10
11...	0900	75	20
12...	0900	75	15
13...	0900	62	20
14...	0930	68	15
15...	0930	68	20
16...	0830	--	20
16...	1000	63	15
17...	0700	60	15
18...	0800	62	15
19...	0930	58	15
20...	0930	58	15
21...	1000	73	20
22...	0900	82	20
23...	1000	64	20
24...	0900	59	15
25...	0900	54	15
26...	0830	46	15
27...	0900	42	10
28...	0930	53	15
29...	1000	61	20
29...	1030	56	15
30...	0900	60	15
DEC.			
01...	0900	56	15
02...	0900	51	15
03...	1030	51	15
04...	1030	46	15
05...	0900	41	10
06...	1100	56	15
07...	1000	47	15
08...	0930	51	15
DEC.			
09...	0900	49	15
10...	1030	42	10
10...	1220	42	10
10...	1250	43	10
10...	1310	39	10
11...	1030	40	10
12...	0900	36	9
13...	0930	39	7
14...	1200	42	10
15...	0930	53	10
16...	0830	69	15
17...	1000	56	15
18...	0800	45	15
18...	0920	57	--
19...	0900	--	9
19...	1000	60	10
20...	0900	53	10
21...	0900	54	10
22...	1000	59	10
23...	0930	63	10
24...	0900	60	10
25...	0900	61	15
26...	0930	58	15
27...	0900	62	15
28...	1000	87	20
29...	1100	147	30
31...	0930	109	30
JAN.			
01...	1000	95	25
02...	1100	74	20
03...	1000	69	20
05...	0900	76	15
06...	1100	69	15
07...	1000	63	15
08...	1000	80	20
08...	1200	67	20
09...	1100	141	20
10...	1100	105	20
11...	0930	99	25
12...	1000	76	20
13...	0930	88	20
14...	1000	61	20
15...	0930	77	20
16...	1130	65	15
17...	1430	61	15
18...	1130	82	15
19...	1000	87	20
20...	1030	100	15
21...	1000	86	15
22...	0930	81	15
23...	1030	84	15
24...	1000	86	20
25...	1030	81	15
26...	1030	74	15
27...	1100	87	15
28...	1000	78	15
29...	0800	--	20
29...	1100	71	15
30...	1100	67	15
31...	1000	57	15
FEB.			
01...	1000	58	15
02...	0900	56	15
03...	1100	67	15
04...	1000	56	15
05...	1030	50	10
06...	1000	46	15
07...	1030	43	10
08...	1000	46	10
09...	1000	43	10
10...	1030	46	10
11...	1130	43	10
12...	0930	47	10
12...	1300	--	20
13...	1030	46	15
14...	1400	45	10
15...	0900	39	10
16...	1030	39	10
17...	0930	33	10
17...	1300	51	--

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
FEB.			
18...	1130	34	10
19...	1000	44	10
20...	1330	42	10
21...	1300	46	10
22...	0740	--	20
22...	1130	40	10
23...	0900	40	15
24...	1130	37	10
25...	1100	45	10
26...	1300	46	10
27...	0930	41	10
28...	1100	45	15
MAR.			
01...	1000	45	15
02...	1130	48	15
03...	1000	97	20
04...	1130	95	30
05...	1030	110	30
06...	1000	89	30
07...	0900	119	30
08...	1130	76	20
09...	1330	67	20
10...	1030	65	20
11...	1030	67	20
12...	1130	66	15
13...	1100	69	20
14...	1100	60	20
15...	1000	63	15
16...	0930	58	15
17...	1030	60	15
18...	1030	52	15
19...	1100	50	15
20...	0900	65	15
21...	0730	--	20
21...	1330	55	15
26...	0900	54	15
27...	0930	99	20
28...	1100	82	15
29...	1400	71	15
30...	1100	94	15
31...	0900	75	15
APR.			
01...	1030	99	15
02...	1100	78	15
03...	1100	121	20
04...	1030	93	20
05...	0930	99	15
06...	0930	108	35
07...	1100	91	30
08...	0930	89	25
09...	1030	74	20
10...	1100	82	20
11...	1130	77	20
11...	1310	--	15
11...	1330	81	20
12...	0945	80	20
13...	0915	76	15
14...	0845	80	15
15...	0945	76	15
16...	0900	93	15
17...	0915	82	15
18...	0730	--	20
18...	0915	91	20
19...	0910	76	15
20...	0900	65	15
21...	0945	82	15
22...	0900	91	20
23...	0945	77	20
24...	0910	102	30
25...	0905	92	25
26...	0910	92	25
27...	0900	91	25
28...	0910	113	25
29...	0900	99	25
30...	0855	91	25
MAY			
01...	0905	82	25
02...	0855	97	25
03...	0905	87	25
04...	0845	87	25
MAY			
05...	0900	90	25
06...	0855	84	25
07...	0855	83	25
08...	0850	95	25
08...	1315	86	25
08...	1335	91	25
09...	0900	81	25
10...	0910	108	25
11...	0905	102	20
12...	0850	98	20
13...	0905	94	20
14...	0900	89	20
15...	0900	89	25
16...	0905	97	20
17...	0900	95	20
18...	0845	81	15
19...	0850	74	15
20...	0845	73	20
21...	0900	76	15
22...	0855	100	25
23...	0905	140	35
24...	0800	--	40
24...	0900	126	40
25...	0855	115	30
26...	0905	112	30
27...	0900	113	35
28...	0910	112	35
29...	0900	143	35
30...	0910	108	25
31...	0910	133	25
JUNE			
01...	0905	110	20
02...	0910	96	15
03...	0850	99	15
04...	0905	90	15
05...	0900	78	20
06...	0855	76	20
07...	0905	90	20
08...	0910	82	20
09...	0915	84	15
10...	0915	94	20
11...	0905	93	20
12...	0900	148	35
12...	1230	88	25
13...	0905	153	40
14...	0910	119	30
15...	0840	128	35
16...	0840	115	30
17...	0820	104	25
18...	0905	91	25
18...	1230	83	25
19...	0900	84	25
19...	1015	88	--
20...	0645	--	30
20...	0900	99	25
21...	0850	104	25
22...	0855	116	10
23...	0840	108	25
24...	0840	117	30
25...	0845	99	10
26...	0845	93	15
27...	0835	104	30
28...	0830	113	20
29...	0830	134	40
30...	0825	151	40
JULY			
01...	0845	147	35
02...	0855	158	20
03...	0900	166	40
04...	0900	154	15
05...	0905	174	30
06...	0905	161	20
07...	0855	149	15
08...	0850	147	30
09...	0900	153	35
10...	0905	149	7
11...	0905	107	30
12...	0900	124	35
13...	0845	129	30
14...	0850	140	40

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
JULY			
15...	0840	140	35
16...	0905	156	35
17...	0905	160	35
18...	0900	166	40
19...	0905	146	35
20...	0900	174	30
21...	0840	190	45
22...	0840	192	45
23...	0900	188	55
24...	0905	177	55
25...	0735	--	40
25...	0900	172	45
26...	0900	193	60
27...	0905	199	55
28...	0900	181	60
29...	0900	185	45
30...	0905	182	55
31...	0905	151	40
AUG.			
01...	0910	156	40
02...	0900	163	45
03...	0905	151	40
04...	0850	166	50
05...	0840	171	40
05...	1200	157	50
06...	0900	178	55
07...	0905	157	55
08...	0905	164	60
09...	0905	173	60
10...	0905	172	55
11...	0910	151	55
12...	0840	173	65
13...	0900	171	60
14...	0905	160	45
15...	0900	191	65
16...	0905	182	50
17...	0840	149	45
18...	0830	163	50
19...	0840	160	50
20...	0905	145	35
21...	0910	131	35
22...	0750	--	30
22...	0905	112	35
23...	0910	137	35
24...	0910	140	40
25...	0840	132	35
AUG.			
26...	0840	128	35
27...	0910	114	35
28...	0910	117	30
29...	0910	106	30
30...	0905	96	30
31...	0910	99	25
SEP.			
01...	0850	94	25
02...	0835	101	20
03...	0830	91	20
04...	0815	102	25
05...	0815	97	25
06...	0805	101	25
07...	0810	101	25
08...	0815	96	25
09...	0815	97	20
10...	0805	91	20
10...	1030	93	6
11...	0805	90	20
12...	0805	86	10
13...	0805	89	15
14...	0810	79	20
15...	0810	76	15
16...	0805	75	20
17...	0750	71	15
18...	0820	97	20
19...	0700	--	20
19...	0815	100	15
20...	0810	121	15
21...	0845	97	15
22...	0850	89	15
23...	0810	93	15
24...	0805	78	15
25...	0815	83	15
26...	0805	78	15
27...	0815	65	10
28...	0815	67	10
29...	0825	66	10
30...	0810	86	15

11306000 SOUTH FORK CALAVERAS RIVER NEAR SAN ANDREAS, CALIF.

LOCATION.--Lat 38°08'40", long 120°39'46", in SW¼NW¼ sec.4, T.3 N., R.12 E., Calaveras County, temperature recorder at gaging station on right bank 0.1 mi (0.2 km) downstream from San Antonio Creek, and 3.7 mi (6.0 km) south of San Andreas.

DRAINAGE AREA.--118 mi^2 (306 km^2).

PERIOD OF RECORD.--Water temperatures: October 1973 to September 1974.
Sediment records: October 1973 to September 1974.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 254 mg/l Mar. 2; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 3,750 tons (3,400 tonnes) Mar. 2; minimum daily, 0 tons (0 tonnes) on many days.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	11.0	---	9.0	9.5	10.5	17.0	---	---	---	---
2	---	10.5	---	5.0	---	9.0	9.5	17.5	---	26.5	---	---
3	13.5	---	7.0	---	---	7.5	8.5	---	---	---	---	26.0
4	---	---	---	6.5	6.0	7.0	13.0	18.0	23.5	---	---	21.0
5	---	9.5	---	6.0	---	---	---	---	---	21.5	29.0	---
6	---	10.5	---	6.0	5.0	---	---	---	25.5	---	25.5	---
7	---	14.0	---	7.0	7.0	9.0	12.5	21.0	21.0	---	---	---
8	---	---	---	---	7.0	7.0	---	---	---	21.5	---	---
9	---	11.5	---	7.5	---	---	11.0	---	---	19.5	---	---
10	---	---	---	---	---	7.5	---	---	26.0	21.5	27.5	---
11	---	---	7.5	5.5	6.5	---	14.0	---	---	---	---	---
12	---	12.5	---	---	---	8.5	---	---	---	---	---	25.5
13	---	11.5	8.0	---	---	---	14.5	20.0	---	23.0	---	---
14	---	---	---	7.5	7.0	11.0	---	---	---	---	---	---
15	---	11.0	---	9.0	---	---	---	19.5	24.0	25.5	25.5	---
16	17.0	10.0	7.5	---	7.5	13.0	16.5	---	---	---	---	---
17	---	11.5	7.0	9.0	---	---	---	14.5	---	---	---	22.0
18	---	10.5	---	9.0	6.5	---	13.0	---	24.0	---	---	---
19	---	---	7.5	10.0	7.5	13.5	---	---	19.0	---	---	---
20	---	---	---	---	---	---	15.0	---	---	---	---	---
21	---	---	8.0	---	7.0	14.0	---	---	---	22.0	26.0	23.0
22	---	---	7.5	5.5	7.0	---	17.0	19.5	---	---	---	---
23	---	---	---	---	---	13.0	---	---	---	---	---	---
24	---	---	7.5	7.0	---	---	11.0	---	25.5	---	---	---
25	---	---	---	---	9.0	12.0	---	22.0	---	---	---	25.0
26	---	---	9.0	7.5	---	---	12.5	---	---	---	---	---
27	---	---	9.0	---	9.0	12.0	---	---	---	23.0	---	---
28	---	---	9.5	7.0	---	10.5	---	24.0	---	---	23.5	---
29	14.5	---	11.0	---	---	11.5	15.0	---	---	---	---	---
30	---	---	9.5	7.5	---	11.0	---	23.0	22.0	---	---	---
31	10.5	---	---	---	---	9.0	---	---	---	27.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11306000 SOUTH FORK CALAVERAS RIVER NEAR SAN ANDREAS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	5.0	1	.01	3.6	1	.01	746	52	125
2	2.0	1	.01	3.7	1	.01	207	11	7.1
3	.67	1	0	3.7	1	.01	58	2	.31
4	.77	1	0	3.8	1	.01	80	2	.43
5	.78	1	0	4.7	1	.01	66	2	.36
6	.77	1	0	12	1	.03	55	2	.30
7	2.8	3	.02	16	1	.04	48	2	.26
8	8.2	4	.09	11	1	.03	42	2	.23
9	8.9	3	.07	8.3	1	.02	39	2	.21
10	8.2	3	.07	8.3	1	.02	36	2	.19
11	3.7	3	.03	26	5	.47	40	2	.22
12	2.5	3	.02	174	107	69	42	2	.23
13	2.2	3	.02	92	22	6.5	75	3	.70
14	2.1	3	.02	62	7	1.2	86	2	.46
15	2.1	3	.02	42	4	.45	58	2	.31
16	2.2	3	.02	35	2	.19	48	1	.13
17	2.1	3	.02	94	9	4.7	70	1	.19
18	2.1	3	.02	255	24	20	78	1	.21
19	2.1	3	.02	98	3	.84	59	1	.16
20	2.1	3	.02	63	2	.34	50	1	.14
21	2.5	3	.02	54	2	.29	98	4	2.8
22	3.5	3	.03	42	2	.23	350	16	19
23	19	3	.15	32	1	.09	140	3	1.1
24	18	3	.15	33	1	.09	103	2	.56
25	7.8	2	.04	35	1	.09	87	2	.47
26	5.3	2	.03	38	1	.10	96	4	1.6
27	4.5	2	.02	30	1	.08	1230	35	138
28	4.1	1	.01	25	1	.07	934	17	61
29	3.8	1	.01	23	1	.06	673	16	37
30	3.8	1	.01	24	3	.19	448	13	17
31	3.6	1	.01	---	---	---	283	6	5.1
MONTH	137.19	---	.96	1352.1	---	105.17	6425	---	420.77

	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	373	11	12	86	3	.70	2630	115	2280
2	215	2	1.2	79	3	.64	3920	254	3750
3	164	2	.89	73	3	.59	1320	50	188
4	172	2	.93	68	3	.55	624	30	51
5	217	4	4.2	65	3	.53	421	25	28
6	1130	27	96	73	2	.39	336	19	17
7	448	3	3.6	60	2	.32	362	16	17
8	268	2	1.4	57	2	.31	648	25	54
9	189	2	1.0	54	2	.29	378	10	10
10	150	2	.81	53	1	.14	305	9	7.4
11	129	3	1.0	51	1	.14	257	9	6.2
12	170	3	1.4	53	2	.29	251	12	8.1
13	154	2	.83	63	2	.34	220	13	7.7
14	136	2	.73	53	2	.29	198	14	7.5
15	156	2	.84	50	2	.27	182	11	5.4
16	148	2	.80	51	4	.55	170	7	3.2
17	600	53	102	52	2	.28	160	6	2.6
18	519	13	18	46	2	.25	148	5	2.0
19	425	7	8.0	73	5	.99	136	5	1.8
20	314	5	4.2	81	4	.87	124	5	1.7
21	254	4	2.7	64	2	.35	116	6	1.9
22	200	4	2.2	88	2	.48	108	8	2.3
23	170	4	1.8	76	2	.41	102	10	2.8
24	152	3	1.2	67	2	.36	96	8	2.1
25	123	3	1.0	62	1	.17	93	6	1.5
26	119	2	.64	58	1	.16	96	5	1.3
27	106	2	.57	58	1	.16	121	5	1.8
28	100	2	.54	60	1	.16	359	22	24
29	93	2	.50	---	---	---	274	12	8.9
30	88	2	.48	---	---	---	1010	73	287
31	85	2	.46	---	---	---	695	32	66
MONTH	7567	---	271.92	1774	---	10.98	15860	---	6848.2

11306000 SOUTH FORK CALAVERAS RIVER NEAR SAN ANDREAS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	1940	114	1020	75	2	.41	22	2	.12
2	1450	55	251	70	2	.38	22	2	.12
3	633	26	46	68	2	.37	21	2	.11
4	440	16	19	64	2	.35	20	2	.11
5	347	13	12	60	2	.32	19	2	.10
6	293	10	7.9	58	1	.16	18	2	.10
7	245	8	5.3	56	1	.15	18	2	.10
8	218	6	3.5	54	1	.15	18	2	.10
9	239	6	3.9	51	1	.14	17	2	.09
10	210	5	2.8	48	1	.13	16	2	.09
11	182	4	2.0	46	1	.12	15	2	.08
12	164	4	1.8	45	1	.12	14	2	.08
13	148	3	1.2	43	1	.12	14	2	.08
14	136	3	1.1	42	1	.11	14	2	.08
15	129	4	1.4	40	1	.11	13	2	.07
16	119	4	1.3	40	1	.11	12	2	.06
17	111	3	.90	39	1	.11	12	2	.06
18	117	2	.63	40	1	.11	13	2	.07
19	116	2	.63	39	1	.11	16	2	.09
20	105	2	.57	38	1	.10	17	2	.09
21	96	2	.52	37	1	.10	15	2	.08
22	90	2	.49	34	1	.09	14	2	.08
23	88	2	.48	33	1	.09	12	2	.06
24	117	3	.95	31	1	.08	11	2	.06
25	119	3	.96	29	1	.08	10	2	.05
26	100	2	.54	23	1	.06	10	2	.05
27	91	2	.49	25	1	.07	9.3	2	.05
28	87	1	.23	25	1	.07	9.3	2	.05
29	81	1	.22	24	1	.06	8.8	2	.05
30	78	1	.21	24	1	.06	8.6	2	.05
31	---	---	---	23	2	.12	---	---	---
MONTH	8289	---	1388.02	1324	---	4.56	439.0	---	2.38

	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	8.3	2	.04	3.5	2	.02	1.3	2	.01
2	8.0	2	.04	3.4	2	.02	1.3	2	.01
3	7.8	2	.04	2.8	2	.02	1.3	2	.01
4	7.5	1	.02	2.7	2	.01	1.2	2	.01
5	6.8	1	.02	2.7	2	.01	1.1	2	.01
6	6.6	1	.02	2.7	2	.01	1.1	2	.01
7	5.9	1	.02	2.7	2	.01	.90	2	0
8	6.8	1	.02	2.5	2	.01	.82	2	0
9	29	9	1.3	2.5	2	.01	.82	2	0
10	54	24	4.0	2.5	2	.01	.74	2	0
11	25	3	.20	2.5	2	.01	.74	2	0
12	17	2	.09	2.3	2	.01	.74	2	0
13	14	2	.08	2.5	2	.01	.74	2	0
14	13	2	.07	2.0	2	.01	.82	2	0
15	11	2	.06	1.8	2	.01	.82	2	0
16	9.3	2	.05	1.8	2	.01	.82	2	0
17	8.6	2	.05	1.8	2	.01	.82	2	0
18	8.0	1	.02	1.6	2	.01	.82	2	0
19	7.5	1	.02	1.5	2	.01	.82	2	0
20	6.8	1	.02	1.5	2	.01	.74	2	0
21	6.1	1	.02	1.5	2	.01	.74	2	0
22	5.5	1	.01	1.3	2	.01	.74	2	0
23	5.2	1	.01	1.3	2	.01	.74	2	0
24	5.2	1	.01	1.3	2	.01	.74	2	0
25	5.0	1	.01	1.2	2	.01	.74	2	0
26	4.6	2	.02	1.2	2	.01	.82	2	0
27	4.4	2	.02	1.2	2	.01	.90	2	0
28	4.3	2	.02	1.3	2	.01	.98	2	.01
29	4.1	2	.02	1.3	2	.01	.98	2	.01
30	3.7	2	.02	1.3	2	.01	.98	2	.01
31	3.7	2	.02	1.3	2	.01	---	---	---
MONTH	312.7	---	6.36	61.5	---	.34	26.82	---	.09
YEAR	43568.31		9059.75						

11306000 SOUTH FORK CALAVERAS RIVER NEAR SAN ANDREAS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.								
12...	1315	13.0	302	182	148	43	57	75
12...	1625	12.5	290	206	161	--	--	--
DEC.								
01...	0900	11.0	1090	63	185	--	--	--
01...	1615	11.0	580	38	60	--	--	--
27...	0830	9.0	1070	24	69	--	--	--
MAR.								
01...	1430	10.5	1260	109	371	--	--	--
02...	0920	9.0	3280	261	2310	--	--	--
02...	1215	9.5	2280	199	1230	--	--	--
02...	1500	8.5	1840	119	591	--	--	--
03...	1740	9.0	1060	22	63	--	--	--
28...	0940	10.5	460	47	58	--	--	--
30...	1430	12.0	2160	144	840	--	--	--
APR.								
01...	1315	10.5	1900	88	451	--	--	--
01...	1530	11.0	2430	109	715	--	--	--
01...	1740	11.0	2950	157	1250	--	--	--
02...	0930	9.5	1410	43	164	--	--	--
JULY								
10...	0950	17.5	58	34	5.3	--	--	--

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.							
12...	90	97	99	100	--	--	--
12...	--	--	99	100	--	--	--
DEC.							
01...	--	--	89	100	--	--	--
01...	--	--	87	100	--	--	--
27...	--	--	94	100	--	--	--
MAR.							
01...	--	--	94	98	100	--	--
02...	--	--	81	91	97	100	--
02...	--	--	84	92	97	99	100
02...	--	--	93	97	99	100	--
03...	--	--	69	82	92	100	--
28...	--	--	88	92	96	100	--
30...	--	--	82	90	95	98	100
APR.							
01...	--	--	64	78	91	100	--
01...	--	--	54	68	81	95	100
01...	--	--	65	77	85	95	100
02...	--	--	82	91	98	100	--
JULY							
10...	--	--	100	--	--	--	--

11308000 NORTH FORK CALAVERAS RIVER NEAR SAN ANDREAS, CALIF.

LOCATION.--Lat 38°13'17", long 120°41'54", in NE¼NW¼ sec.7, T.4 N., R.12 E., Calaveras County, temperature recorder at gaging station on right bank 0.5 mi (0.8 km) upstream from Chile Gulch, and 1.8 mi (2.9 km) northwest of San Andreas.

DRAINAGE AREA.--85.2 mi^2 (220.7 km^2).

PERIOD OF RECORD.--Water temperatures: October 1973 to September 1974.
Sediment records: October 1973 to September 1974.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 294 mg/l Mar. 2; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 1,680 tons (1,520 tonnes) Mar. 2; minimum daily, 0 tons (0 tonnes) on many days during August and September.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974 (ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	11.0	---	8.5	10.0	10.5	19.0	---	---	---	---
2	---	11.0	---	5.0	---	8.5	10.0	18.5	---	23.0	---	---
3	15.0	---	7.0	---	---	7.0	9.5	---	---	---	---	---
4	---	---	---	6.5	6.5	8.5	13.0	19.0	24.0	---	---	22.0
5	---	9.5	---	6.0	---	8.5	---	---	---	23.0	27.5	24.0
6	---	11.0	---	5.5	6.0	---	---	---	23.0	---	27.5	---
7	---	12.0	---	7.0	7.0	9.0	12.5	21.0	22.0	---	---	---
8	---	---	---	---	7.0	7.0	---	---	---	21.0	---	---
9	---	12.0	---	6.0	---	---	12.0	---	---	20.0	---	---
10	---	---	---	---	---	8.0	---	---	27.0	18.5	28.0	---
11	---	---	7.0	4.5	6.5	---	15.0	---	---	---	---	---
12	---	12.5	---	---	---	9.0	---	---	---	---	---	---
13	---	11.5	8.0	---	---	---	15.0	20.5	---	24.5	---	---
14	---	---	---	7.5	6.5	11.5	---	---	---	---	---	24.0
15	---	10.5	---	9.0	---	---	---	20.0	25.0	26.0	23.5	---
16	16.0	11.0	7.0	---	7.5	14.5	17.0	---	---	---	---	---
17	---	11.5	8.0	10.5	---	---	---	---	---	---	---	20.5
18	---	10.0	---	10.0	7.0	---	14.0	---	25.0	---	---	---
19	---	---	6.5	10.5	8.0	14.0	---	---	20.0	---	---	---
20	---	---	---	---	---	---	16.0	---	---	---	---	---
21	---	---	7.5	9.0	6.5	14.0	---	---	---	---	24.5	---
22	---	---	7.5	6.0	6.5	---	16.5	19.0	---	25.5	---	---
23	---	---	---	---	---	14.0	---	---	---	---	---	---
24	---	---	7.0	6.5	---	---	12.5	---	26.0	---	---	---
25	---	---	---	---	8.5	13.0	---	23.0	---	---	---	22.0
26	---	---	8.0	7.0	---	---	13.5	---	---	---	---	---
27	---	---	9.0	---	9.0	13.0	---	---	---	24.5	---	---
28	---	---	9.5	6.5	---	11.0	---	24.0	---	---	22.5	---
29	13.0	---	11.0	---	---	12.5	15.5	---	---	---	---	---
30	---	9.0	9.0	6.5	---	12.0	---	24.0	23.0	---	---	---
31	10.5	---	---	---	---	10.0	---	---	---	29.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11308000 NORTH FORK CALAVERAS RIVER NEAR SAN ANDREAS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	1.1	2	.01	6.8	1	.02	464	98	224
2	1.3	2	.01	6.8	1	.02	191	5	3.1
3	1.3	2	.01	6.8	1	.02	85	3	.69
4	2.3	2	.01	6.8	1	.02	58	3	.47
5	2.6	2	.01	7.6	1	.02	44	3	.36
6	2.6	2	.01	19	2	.10	36	3	.29
7	9.5	2	.05	17	1	.05	31	2	.17
8	12	2	.06	13	1	.04	28	2	.15
9	7.4	2	.04	10	1	.03	25	2	.14
10	5.0	2	.03	12	1	.03	24	2	.13
11	4.3	2	.02	22	2	.12	21	2	.11
12	4.0	2	.02	192	64	64	22	1	.06
13	4.0	2	.02	59	8	1.4	24	2	.13
14	3.8	2	.02	52	5	.70	48	6	.78
15	3.7	2	.02	29	4	.31	30	2	.16
16	3.7	2	.02	22	2	.12	25	1	.07
17	3.8	2	.02	59	12	7.2	29	3	.23
18	3.9	2	.02	239	60	56	50	4	.54
19	3.8	2	.02	72	4	.78	34	1	.09
20	3.9	2	.02	42	3	.34	27	1	.07
21	4.2	2	.02	36	1	.10	35	2	.23
22	6.6	2	.04	29	1	.08	246	19	16
23	21	3	.17	24	1	.06	106	3	.86
24	16	2	.09	23	1	.06	66	2	.36
25	9.7	2	.05	22	1	.06	49	2	.26
26	7.6	2	.04	23	2	.12	43	3	.41
27	7.3	1	.02	23	3	.19	362	24	29
28	6.9	1	.02	20	1	.05	409	16	23
29	6.6	1	.02	19	1	.05	426	30	46
30	6.5	1	.02	19	2	.10	266	4	3.0
31	6.8	1	.02	---	---	---	134	2	.72
MONTH	183.2	---	.95	1131.8	---	132.19	3438	---	351.58

	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	126	2	.68	37	1	.10	323	62	150
2	100	1	.27	37	1	.10	1490	294	1680
3	76	1	.21	33	1	.09	536	36	57
4	68	1	.18	31	1	.08	302	12	9.8
5	73	2	.39	30	1	.08	204	14	7.7
6	113	2	.61	29	1	.08	156	15	6.3
7	118	2	.64	27	1	.07	143	12	4.8
8	126	2	.68	26	1	.07	339	24	25
9	119	2	.64	25	1	.07	211	14	8.0
10	103	2	.56	24	1	.06	153	11	4.5
11	88	2	.48	24	1	.06	124	10	3.3
12	152	7	2.9	24	1	.06	117	7	2.2
13	169	3	1.4	29	1	.08	102	6	1.7
14	119	2	.64	26	1	.07	88	6	1.4
15	146	8	3.2	24	1	.06	78	5	1.1
16	110	4	1.2	24	1	.06	71	5	.96
17	319	19	22	28	1	.08	64	4	.69
18	234	6	4.1	25	1	.07	60	4	.65
19	228	5	3.1	90	6	2.6	56	3	.45
20	150	3	1.2	105	3	1.0	51	3	.41
21	120	2	.65	61	2	.33	47	3	.38
22	93	2	.50	81	4	.87	44	2	.24
23	78	2	.42	66	2	.36	43	2	.23
24	68	2	.37	52	2	.28	41	2	.22
25	60	1	.16	44	2	.24	39	1	.11
26	54	1	.15	39	2	.21	40	1	.11
27	48	1	.13	38	2	.21	50	3	.41
28	43	1	.12	36	2	.19	239	26	20
29	40	1	.11	---	---	---	164	10	4.4
30	38	1	.10	---	---	---	502	73	136
31	36	1	.10	---	---	---	403	20	22
MONTH	3415	---	47.89	1115	---	7.63	6280	---	2150.06

11308000 NORTH FORK CALAVERAS RIVER NEAR SAN ANDREAS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	752	103	338	42	1	.11	16	1	.04
2	759	41	98	40	1	.11	16	2	.09
3	325	14	12	39	1	.11	15	2	.08
4	210	7	4.0	37	1	.10	15	2	.08
5	159	5	2.1	36	1	.10	14	2	.08
6	129	4	1.4	35	1	.09	13	2	.07
7	110	3	.89	33	1	.09	13	2	.07
8	98	3	.79	32	1	.09	12	2	.06
9	102	3	.83	30	1	.08	12	2	.06
10	106	3	.86	28	1	.08	11	2	.06
11	86	2	.46	28	1	.08	11	2	.06
12	77	2	.42	27	1	.07	10	2	.05
13	70	2	.38	26	1	.07	10	2	.05
14	65	2	.35	25	1	.07	9.7	2	.05
15	61	2	.33	24	1	.06	9.8	2	.05
16	57	2	.31	24	1	.06	9.7	2	.05
17	55	2	.30	24	1	.06	10	2	.05
18	57	2	.31	24	1	.06	10	1	.03
19	59	2	.32	24	1	.06	13	2	.07
20	53	2	.29	23	1	.06	14	2	.08
21	49	2	.26	22	1	.06	12	2	.06
22	47	2	.25	21	1	.06	11	1	.03
23	48	2	.26	21	1	.06	9.8	1	.03
24	70	3	.57	19	1	.05	9.3	1	.03
25	91	3	.74	18	1	.05	9.0	1	.02
26	66	1	.18	17	1	.05	8.6	1	.02
27	57	1	.15	16	1	.04	8.0	1	.02
28	52	1	.14	16	1	.04	7.3	1	.02
29	48	1	.13	16	1	.04	7.1	1	.02
30	44	1	.12	16	1	.04	6.5	1	.02
31	---	---	---	16	1	.04	---	---	---
MONTH	3962	---	465.14	799	---	2.14	332.8	---	1.50

	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	6.1	1	.02	3.5	2	.02	.87	1	0
2	5.9	1	.02	3.3	2	.02	.71	1	0
3	5.4	1	.01	2.7	2	.01	.54	1	0
4	5.2	1	.01	2.5	2	.01	.44	1	0
5	4.6	1	.01	2.2	2	.01	.35	1	0
6	4.6	1	.01	2.3	2	.01	.35	1	0
7	4.3	1	.01	1.8	2	.01	.32	1	0
8	5.4	2	.03	1.5	2	.01	.27	1	0
9	37	11	1.4	1.6	2	.01	.49	2	0
10	37	10	1.0	1.4	2	.01	.46	2	0
11	16	6	.26	1.4	2	.01	.43	2	0
12	11	3	.09	1.4	2	.01	.43	2	0
13	9.7	2	.05	1.4	2	.01	.51	2	0
14	8.8	1	.02	1.3	1	0	.55	2	0
15	8.0	1	.02	1.2	1	0	.59	2	0
16	7.4	1	.02	1.1	1	0	.66	2	0
17	7.1	1	.02	1.1	1	0	.54	1	0
18	6.8	1	.02	1.1	1	0	.45	1	0
19	6.2	1	.02	.98	1	0	.37	1	0
20	5.8	1	.02	.99	1	0	.37	1	0
21	5.2	1	.01	.92	1	0	.35	1	0
22	5.0	1	.01	1.2	2	.01	.28	1	0
23	4.6	1	.01	1.6	2	.01	.29	1	0
24	4.8	1	.01	1.2	1	0	.23	1	0
25	4.6	1	.01	.93	1	0	.37	2	0
26	4.8	4	.05	.74	1	0	1.2	2	.01
27	5.3	1	.01	.68	1	0	1.1	2	.01
28	4.6	1	.01	.75	1	0	.94	2	.01
29	4.1	1	.01	.66	1	0	.89	2	0
30	3.9	1	.01	.84	1	0	.93	2	.01
31	4.1	2	.02	.84	1	0	---	---	---
MONTH	253.3	---	3.22	45.13	---	.17	16.28	---	.04
YEAR	20971.51		3162.51						

11308000 NORTH FORK CALAVERAS RIVER NEAR SAN ANDREAS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
12...	1050	12.5	583	294	463	41	52	64	77	88
12...	1610	12.5	226	21	13	--	--	--	--	--
DEC.										
01...	0940	10.5	1220	311	1020	49	61	74	86	94
01...	1230	11.0	724	125	244	--	--	--	--	--
27...	0925	9.0	562	40	61	--	--	--	--	--
29...	1520	11.0	896	154	373	--	--	--	--	--
MAR.										
01...	1450	10.5	343	52	48	--	--	--	--	--
01...	1715	10.5	506	70	96	--	--	--	--	--
02...	0955	9.0	1520	297	1220	9	31	36	50	65
02...	1255	8.5	1200	200	648	--	--	--	--	--
02...	1545	8.5	969	135	353	--	--	--	--	--
30...	1045	12.0	628	128	217	--	--	--	--	--
30...	1810	12.0	952	124	319	--	--	--	--	--
APR.										
01...	1600	10.5	1340	286	1040	--	--	--	--	--
01...	1810	11.0	1480	265	1060	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.									
12...	--	92	--	97	--	100	--	--	--
12...	--	97	--	98	--	99	--	100	--
DEC.									
01...	--	96	--	98	--	100	--	--	--
01...	--	84	--	95	--	100	--	--	--
27...	--	94	--	100	--	--	--	--	--
29...	--	96	--	98	--	100	--	--	--
MAR.									
01...	--	87	--	92	--	97	--	99	100
01...	--	97	--	100	--	--	--	--	--
02...	81	--	95	--	99	--	100	--	--
02...	--	89	--	97	--	100	--	--	--
02...	--	89	--	97	--	100	--	--	--
30...	--	78	--	90	--	96	--	100	--
30...	--	88	--	95	--	98	--	100	--
APR.									
01...	--	70	--	90	--	98	--	100	--
01...	--	78	--	90	--	97	--	100	--

11308600 CALAVERAS RIVER ABOVE NEW HOGAN LAKE, NEAR SAN ANDREAS, CALIF.

LOCATION.--Lat 38°11'48", long 120°43'18", in NW¼SW¼ sec.13, T.4 N., R.11 E., Calaveras County, temperature recorder at gaging station on right bank 600 ft (183 m) below confluence of the North and South Forks of the Calaveras River, and 2.3 mi (3.7 km) west of San Andreas.

DRAINAGE AREA.--307 mi^2 (795 km^2).

PERIOD OF RECORD.--Water temperatures: October 1970 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 5.5°C Jan. 2, 3, 10, 11.
Period of record:
Water temperatures: Maximum (1971-73), 31.0°C June 30, July 14, 15, 1972; minimum, 2.0°C Jan. 7, 1973.

REMARKS.--Temperature of stream was affected by backwater from New Hogan Lake Mar. 31 to Aug. 24.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	14.5	14.5	12.0	10.5	8.5	8.0	7.5	9.0	7.5	11.5	10.0
2	21.0	12.5	13.0	11.5	8.5	7.5	7.0	5.5	8.5	7.5	10.5	8.5
3	21.5	13.0	12.5	10.0	8.0	6.5	6.5	5.5	8.5	7.5	10.5	8.5
4	20.5	14.0	11.5	9.0	7.5	6.5	7.0	6.5	8.5	7.0	10.0	7.5
5	19.0	13.5	10.5	10.0	8.0	7.0	7.0	6.5	8.5	7.5	11.0	8.0
6	17.5	14.5	12.0	10.5	8.5	8.0	7.0	6.0	7.5	6.5	11.0	9.0
7	16.0	14.5	13.0	11.5	9.0	8.0	8.0	7.0	7.5	6.5	11.0	10.0
8	16.0	14.5	14.5	12.0	8.5	8.0	7.5	6.5	7.5	6.5	10.0	9.0
9	16.5	13.5	13.0	12.0	8.5	8.0	7.0	6.0	7.5	6.5	11.0	8.5
10	16.5	13.0	13.0	12.5	8.0	7.5	6.5	5.5	8.0	7.0	11.0	9.0
11	16.5	13.5	13.0	13.0	8.5	7.5	6.5	5.5	8.5	7.0	11.5	10.0
12	17.0	13.5	13.0	12.5	8.0	7.5	8.0	6.5	8.5	7.5	13.0	11.0
13	17.5	14.0	12.5	12.0	8.5	8.0	8.5	7.5	8.5	7.5	13.5	11.0
14	18.0	14.0	12.0	11.5	8.5	8.0	8.0	7.5	8.5	7.5	14.5	12.0
15	18.0	14.5	12.0	11.0	9.0	8.0	9.5	8.0	8.5	7.5	14.5	12.5
16	18.0	14.5	12.5	11.5	8.5	7.5	10.5	9.5	9.5	8.0	15.0	13.5
17	18.0	14.0	12.0	11.5	8.5	8.0	11.0	10.0	9.0	7.5	14.5	13.5
18	18.0	14.0	11.5	10.5	8.0	7.5	11.0	[illegible]	8.5	7.5	15.5	12.5
19	17.0	14.0	10.5	9.0	7.5	6.5	11.0		9.5	7.5	15.5	13.0
20	18.5	15.0	9.0	8.0	7.5	6.5	11.0	[illegible]	8.5	7.0	15.5	13.5
21	17.5	15.0	9.0	8.0	8.0	7.5	10.5	9.5	8.0	7.5	15.5	14.0
22	16.0	14.5	9.0	8.0	9.0	8.0	9.0	7.0	8.5	7.0	16.5	14.5
23	16.5	14.0	9.0	7.5	8.5	7.5	8.0	6.5	8.0	7.0	16.0	14.5
24	15.5	13.0	9.0	8.0	8.0	7.0	8.0	6.5	8.5	7.5	16.5	14.0
25	15.5	12.5	8.0	7.5	7.5	7.0	8.0	6.5	9.0	7.5	15.5	15.0
26	15.5	12.0	9.0	7.5	8.5	7.5	8.0	7.5	9.0	8.5	16.5	14.5
27	15.5	12.0	9.0	7.5	9.5	8.5	7.5	6.0	9.5	8.5	16.5	15.5
28	15.0	12.0	9.0	7.0	10.0	9.0	7.0	6.0	10.0	9.5	15.5	14.0
29	14.5	11.5	8.5	7.5	10.5	9.5	7.5	6.5	---	---	16.0	15.0
30	14.5	11.5	9.5	8.5	10.0	8.5	7.5	6.5	---	---	16.0	14.5
31	14.5	12.0	---	---	8.5	8.0	8.0	7.5	---	---	---	---
MONTH	21.5	11.5	14.5	7.0	10.5	6.5	11.0	5.5	10.0	6.5	16.5	7.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	24.5	23.5
2	---	---	---	---	---	---	---	---	---	---	24.5	23.5
3	---	---	---	---	---	---	---	---	---	---	25.0	23.5
4	---	---	---	---	---	---	---	---	---	---	24.5	23.0
5	---	---	---	---	---	---	---	---	---	---	24.0	23.0
6	---	---	---	---	---	---	---	---	---	---	24.5	23.0
7	---	---	---	---	---	---	---	---	---	---	24.5	23.5
8	---	---	---	---	---	---	---	---	---	---	24.5	23.5
9	---	---	---	---	---	---	---	---	---	---	25.0	23.0
10	---	---	---	---	---	---	---	---	---	---	24.0	23.0
11	---	---	---	---	---	---	---	---	---	---	24.5	23.5
12	---	---	---	---	---	---	---	---	---	---	24.5	23.0
13	---	---	---	---	---	---	---	---	---	---	23.5	22.0
14	---	---	---	---	---	---	---	---	---	---	23.5	22.0
15	---	---	---	---	---	---	---	---	---	---	23.0	22.0
16	---	---	---	---	---	---	---	---	---	---	23.5	22.0
17	---	---	---	---	---	---	---	---	---	---	22.5	21.5
18	---	---	---	---	---	---	---	---	---	---	23.0	22.0
19	---	---	---	---	---	---	---	---	---	---	23.0	21.5
20	---	---	---	---	---	---	---	---	---	---	23.5	22.0
21	---	---	---	---	---	---	---	---	---	---	23.0	21.5
22	---	---	---	---	---	---	---	---	---	---	23.0	21.5
23	---	---	---	---	---	---	---	---	---	---	22.5	21.5
24	---	---	---	---	---	---	---	---	---	---	23.0	21.5
25	---	---	---	---	---	---	---	---	26.5	25.5	23.0	21.5
26	---	---	---	---	---	---	---	---	26.0	25.0	23.0	21.0
27	---	---	---	---	---	---	---	---	26.0	25.0	23.0	20.0
28	---	---	---	---	---	---	---	---	26.0	24.5	22.0	19.5
29	---	---	---	---	---	---	---	---	25.5	24.5	22.0	19.5
30	---	---	---	---	---	---	---	---	26.0	24.5	21.5	18.0
31	---	---	---	---	---	---	---	---	25.5	23.5	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	25.0	18.0

11308900 CALAVERAS RIVER BELOW NEW HOGAN DAM, NEAR VALLEY SPRINGS, CALIF.

LOCATION.--Lat 38°08'53", long 120°49'26", in NW¼NE¼ sec.1, T.3 N., R.10 E., Calaveras County, temperature recorder at gaging station on right bank at county road bridge, 0.5 mi (0.8 km) upstream from Cosgrove Creek, 0.8 mi (1.3 km) downstream from New Hogan Dam, and 3.0 mi (4.8 km) south of Valley Springs.

DRAINAGE AREA.--363 mi^2 (940 km^2).

PERIOD OF RECORD.--Chemical analyses: January 1964 to August 1966. Published as "below Hogan Dam" in 1964.
Water temperatures: October 1970 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 14.5°C Oct. 13-16; minimum, 7.0°C Feb. 20, 23, Mar. 4.
Period of record:
Water temperatures: Maximum, 17.0°C Oct. 12, 1971; minimum (1971 to current year), 5.5°C Dec. 17, 1971, Jan. 1, 1973.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.0	12.0	10.5	11.5	10.5	12.0	10.5	12.0	11.0	12.0	11.0
2	12.0	8.5	12.5	10.5	11.5	10.5	12.0	11.0	12.0	11.0	12.0	11.0
3	12.5	8.5	12.5	10.5	11.5	10.5	12.5	11.0	12.0	11.0	12.0	11.0
4	12.5	8.5	12.5	10.5	11.5	10.5	12.0	11.0	12.0	11.0	12.0	11.0
5	11.5	9.0	12.5	10.5	11.5	10.5	12.0	11.0	12.0	11.0	12.0	11.0
6	12.5	9.5	13.0	10.5	11.5	10.5	12.0	10.5	12.0	11.0	12.0	11.0
7	12.5	9.0	12.5	11.0	11.5	10.5	12.0	11.0	12.0	11.0	12.0	11.0
8	12.0	9.0	12.0	11.0	11.5	10.5	11.5	11.0	12.0	11.0	12.0	11.0
9	11.5	9.0	12.0	11.0	11.5	10.5	12.0	11.0	12.0	11.0	12.0	11.0
10	12.5	9.0	12.0	11.0	11.5	10.5	12.5	11.0	12.0	11.0	12.0	11.0
11	13.0	9.0	12.0	11.0	11.5	10.5	12.5	11.0	12.0	11.0	12.0	11.0
12	13.5	9.5	12.0	11.0	11.5	10.5	12.0	11.0	12.0	11.0	12.0	10.5
13	13.5	9.0	12.0	10.5	11.5	10.5	12.0	11.0	12.0	11.0	12.0	10.5
14	13.5	9.5	12.0	11.0	11.5	10.5	12.0	11.0	12.0	11.0	12.0	10.5
15	13.5	9.5	12.0	11.0	11.5	10.5	12.0	11.0	12.0	11.0	12.0	10.5
16	13.5	9.5	12.0	10.5	11.5	10.5	12.0	11.0	12.0	11.0	12.0	10.5
17	13.5	9.5	12.0	10.5	11.5	10.5	12.0	11.0	12.0	11.0	12.0	11.0
18	11.5	10.0	11.5	10.5	11.5	10.5	12.0	11.0	12.0	11.0	12.0	10.5
19	12.5	9.5	11.5	10.5	11.5	10.5	12.0	11.0	12.0	11.0	11.5	10.5
20	12.5	10.0	12.0	10.5	12.0	11.0	12.0	11.0	12.0	11.0	11.5	10.5
21	12.5	10.0	12.0	11.0	12.0	10.5	12.0	11.0	12.0	11.0	12.0	10.5
22	12.5	10.0	12.0	10.5	12.0	10.5	12.0	11.0	12.0	11.0	11.5	10.5
23	11.0	10.0	12.0	10.5	12.0	10.5	12.0	11.0	12.0	11.0	12.0	10.5
24	12.5	10.0	12.0	10.5	12.0	10.5	12.0	11.0	12.0	11.0	12.0	10.5
25	12.5	10.0	12.0	10.5	12.0	11.0	12.0	11.0	12.0	11.0	12.0	10.5
26	12.0	10.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	10.5
27	12.0	10.0	12.0	10.5	12.0	11.0	12.0	11.0	12.0	11.0	12.0	10.0
28	12.0	10.5	11.5	10.5	12.0	11.0	12.0	11.0	12.0	11.0	11.5	10.0
29	12.0	10.5	11.5	10.5	12.0	11.0	12.0	11.0	12.0	11.0	11.5	10.5
30	12.0	10.5	11.5	10.5	12.0	11.0	12.0	11.0	12.0	11.0	11.5	10.5
31	---	---	11.5	10.5	---	---	12.0	11.0	12.0	11.0	---	---
MONTH	13.5	8.5	13.0	10.5	12.0	10.5	12.5	10.5	12.0	11.0	12.0	10.0

11319500 MOKELUMNE RIVER NEAR MOKELUMNE HILL, CALIF.

LOCATION.--Lat 38°18'46", long 120°43'09", in SW¼SW¼ sec.1, T.5 N., R.11 E., Calaveras County, temperature recorder at gaging station on downstream side of bridge, 1.2 mi (1.9 km) northwest of Mokelumne Hill, and 8 mi (13 km) downstream from confluence of North and South Forks.

DRAINAGE AREA.--544 mi² (1,409 km²).

PERIOD OF RECORD.--Water temperatures: February 1961 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 18.5°C July 24; minimum, 3.0°C Feb. 6.
Period of record:
Water temperatures: Maximum, 24.5°C Aug. 5, 1967; minimum (1961-65, 1966 to current year), 1.0°C Jan. 31, Feb. 1, 1968.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	13.5	14.5	13.5	8.0	7.0	5.5	4.5	5.5	4.5	7.5	5.5
2	15.0	13.0	14.0	13.0	7.0	6.0	4.5	3.5	5.0	4.5	7.0	5.0
3	13.5	11.5	14.0	12.5	6.0	5.5	4.0	3.5	5.0	4.0	5.5	4.5
4	13.5	12.0	13.5	11.0	6.0	5.5	4.0	4.0	5.0	4.0	5.5	4.0
5	14.0	11.5	13.0	12.0	6.5	6.0	4.5	4.0	4.5	3.5	6.0	4.5
6	13.5	12.5	13.5	12.5	6.5	6.0	4.0	3.5	4.5	3.0	6.5	5.5
7	13.0	12.5	13.0	12.5	7.0	6.5	4.0	3.5	4.5	3.5	7.0	6.0
8	12.5	12.0	13.5	12.0	6.5	6.5	4.0	3.5	4.5	3.5	6.0	5.5
9	13.0	11.5	12.0	11.5	6.5	6.0	4.5	4.0	5.0	4.0	7.0	5.5
10	13.0	11.0	11.5	11.5	6.5	6.0	4.5	3.5	5.0	4.0	6.5	5.5
11	13.0	11.5	13.0	11.5	6.5	6.0	4.0	3.5	5.0	4.0	6.5	6.0
12	13.5	11.5	12.5	11.0	6.5	6.5	5.0	4.0	5.0	4.5	7.5	6.5
13	14.5	12.5	11.0	9.5	6.5	6.5	5.5	5.0	4.5	4.0	8.0	6.5
14	15.0	12.5	9.5	8.5	6.5	6.0	5.0	5.0	4.5	4.0	8.5	7.0
15	15.5	13.0	9.0	8.5	6.5	5.5	6.0	5.0	5.0	4.0	9.0	7.5
16	15.0	13.0	9.0	8.5	6.5	5.5	6.5	6.0	5.5	4.5	9.0	8.0
17	15.0	13.0	9.5	9.0	6.5	6.0	7.0	6.5	5.0	4.5	9.0	8.0
18	15.0	13.5	9.5	8.5	6.5	6.0	7.0	6.5	4.5	4.0	8.5	7.5
19	15.0	13.5	8.0	7.0	6.5	6.0	7.5	7.0	5.5	4.5	8.5	7.0
20	15.0	14.0	7.0	6.5	6.0	5.5	7.5	7.0	5.0	4.0	9.0	7.5
21	15.0	14.0	7.5	7.0	6.5	6.0	7.0	5.5	4.5	4.5	9.0	7.5
22	15.0	14.5	7.5	7.0	7.0	6.5	5.5	4.5	5.0	4.5	9.0	8.0
23	15.0	14.0	7.5	6.5	6.5	5.5	5.0	4.0	5.5	4.0	9.0	8.0
24	14.5	13.5	7.5	7.0	6.0	5.5	5.0	4.5	5.5	4.0	9.0	7.5
25	14.5	13.0	7.0	6.5	6.0	5.5	5.0	4.5	5.5	4.5	9.0	8.0
26	14.0	13.0	7.0	6.5	6.5	6.0	5.0	4.5	5.5	4.5	9.0	8.5
27	14.5	12.5	7.0	6.5	7.0	6.5	4.5	3.5	6.0	5.0	9.5	8.5
28	14.5	13.0	7.0	6.0	8.0	7.5	4.5	3.5	6.0	5.5	9.0	8.5
29	15.0	13.0	7.0	6.5	9.5	7.5	4.5	4.0	---	---	9.5	8.5
30	15.0	13.0	7.5	7.0	8.0	6.5	4.5	4.0	---	---	9.5	8.5
31	15.0	13.5	---	---	6.5	5.5	4.5	4.0	---	---	8.5	7.5
MONTH	15.5	11.0	14.5	6.0	9.5	5.5	7.5	3.5	6.0	3.0	9.5	4.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	7.5	14.0	11.0	14.5	13.0	16.0	14.5	16.5	15.0	16.5	15.0
2	9.0	8.0	13.0	11.0	14.5	13.5	16.0	14.5	16.5	15.5	17.0	15.5
3	9.5	7.5	12.5	10.5	15.0	13.5	16.0	14.5	16.5	15.5	17.0	15.5
4	9.5	7.5	13.0	11.0	16.0	14.0	15.5	14.5	17.0	15.5	17.0	15.5
5	10.0	8.5	13.0	11.0	14.5	13.0	15.5	14.0	16.5	15.0	17.0	16.0
6	10.5	8.5	14.0	11.5	15.5	14.0	15.5	14.0	17.5	15.0	17.5	16.0
7	10.5	8.5	14.0	12.0	15.5	14.0	15.0	13.5	17.0	15.0	17.5	16.0
8	10.0	9.0	14.5	12.0	15.0	13.5	15.0	13.0	16.5	15.0	17.5	16.0
9	9.5	8.5	14.0	12.0	15.5	14.0	14.5	13.0	16.0	15.0	17.5	16.0
10	9.0	7.5	13.5	11.0	15.5	14.0	15.0	12.5	16.5	15.0	17.5	16.0
11	10.0	7.5	13.5	11.0	15.5	14.5	16.5	13.0	16.5	15.0	17.5	16.0
12	11.0	8.5	13.5	11.5	16.0	15.0	16.0	14.0	16.5	15.0	17.5	16.0
13	11.0	9.0	13.0	11.0	16.0	15.0	16.0	14.5	16.5	15.0	17.0	16.0
14	11.5	9.5	13.0	11.0	16.5	15.5	15.5	14.0	15.5	14.5	17.0	16.0
15	11.5	10.0	13.0	11.5	16.0	15.0	15.5	14.0	15.5	14.0	17.0	16.0
16	12.0	9.5	12.5	10.5	16.0	14.5	15.5	14.0	15.5	14.0	17.5	16.0
17	12.0	10.0	11.5	10.0	15.5	14.0	15.5	14.0	16.0	14.5	17.5	16.0
18	11.5	10.0	11.0	9.0	15.5	14.0	15.5	14.0	16.0	14.5	18.0	16.0
19	10.0	9.0	11.0	9.0	14.5	13.0	16.0	14.5	15.5	14.5	18.0	16.5
20	10.5	8.5	11.5	9.0	14.5	12.5	16.0	14.5	15.5	14.0	18.0	16.5
21	11.5	9.0	12.0	9.5	15.5	14.0	16.0	14.5	16.0	14.0	18.0	16.5
22	12.0	10.0	13.5	10.5	16.0	14.0	16.0	14.5	16.5	15.0	18.0	16.5
23	11.0	9.5	14.0	11.5	16.5	14.5	16.0	15.0	16.5	15.0	18.0	16.5
24	9.5	7.5	14.5	12.0	16.0	14.0	18.5	15.0	16.5	15.0	18.0	16.5
25	8.5	6.5	14.0	12.5	15.0	14.0	17.0	15.0	17.0	15.5	18.0	16.5
26	9.5	7.0	14.5	12.5	14.5	13.5	16.0	15.0	17.0	15.5	18.0	16.5
27	10.0	7.5	15.0	13.0	14.0	13.0	16.0	14.5	17.0	15.5	18.0	16.5
28	11.0	8.5	15.0	12.5	15.0	13.0	17.0	15.0	17.0	15.5	18.0	16.0
29	11.5	9.5	14.0	12.0	15.0	13.5	16.5	15.0	16.5	15.5	18.0	16.0
30	12.5	10.5	13.5	12.0	16.0	14.0	16.5	15.0	16.5	15.5	17.5	15.5
31	---	---	14.0	12.5	---	---	17.0	15.0	16.5	15.0	---	---
MONTH	12.5	6.5	15.0	9.0	16.5	12.5	18.5	12.5	17.5	14.0	18.0	15.0

11323500 MOKELUMNE RIVER BELOW CAMANCHE DAM, CALIF.

LOCATION.--Lat 38°13'14", long 121°02'19", in NW¼NW¼ sec.7, T.4 N., R.9 E., San Joaquin County, temperature recorder at gaging station on left bank, 0.7 mi (1.1 km) downstream from Murphy Creek, 1.0 mi (1.6 km) downstream from Camanche Dam, and 3.4 mi (5.5 km) northeast of Clements.
DRAINAGE AREA.--627 mi^2 (1,624 km^2).
PERIOD OF RECORD.--Chemical analyses: January to December 1906, water years 1965-66 (partial-record station). Published as "at Clements" in 1906.
Water temperatures: October 1961 to September 1968, October 1969 to current year.
Sediment records: Water years 1956-70 (partial-record station). Prior to 1962 water year published as "near Clements."
EXTREMES.--Current year:
Water temperatures: Maximum, 16.5°C on several days during September; minimum, 9.0°C on many days during January and March.
Period of record:
Water temperatures (1961-63, 1964-68, 1970 to current year): Maximum (1961-63, 1964-65, 1970 to current year), 22.0°C Aug. 9, 10, 1971; minimum (1961-63, 1965-68, 1970 to current year), 7.0°C Jan. 22-26, 1972.
REMARKS.--Temperature record furnished by East Bay Municipal Utility District and reviewed by Geological Survey.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.0	11.0	10.5	12.0	11.5	15.5	15.0	16.0	15.5	16.0	15.5
2	10.0	9.5	11.0	10.5	12.0	11.5	15.5	15.0	16.0	15.5	16.0	15.5
3	10.0	9.5	11.0	10.5	12.0	11.5	15.5	15.0	16.0	15.5	16.0	15.5
4	10.0	9.5	11.0	10.5	12.0	11.5	15.5	15.0	16.0	15.5	16.0	15.5
5	10.0	9.5	11.0	10.5	13.0	12.0	15.5	15.0	16.0	15.5	16.0	15.5
6	10.0	9.5	11.0	10.5	13.5	12.0	16.0	15.5	16.0	15.5	16.0	16.0
7	10.0	9.5	11.5	10.5	13.5	13.0	15.5	15.0	16.0	15.5	16.5	16.0
8	10.0	9.5	11.0	10.5	13.5	13.0	15.5	15.0	16.0	15.5	16.5	16.0
9	10.0	9.5	11.0	10.5	14.0	13.5	15.5	15.0	16.0	15.5	16.5	16.0
10	10.0	9.5	11.0	10.5	14.0	13.5	15.5	15.0	16.0	15.5	16.5	16.0
11	10.0	9.5	11.0	10.5	14.0	13.5	15.5	15.0	16.0	15.5	16.5	16.0
12	10.0	9.5	11.0	10.5	14.0	13.5	15.5	15.0	16.0	15.5	16.5	16.0
13	10.0	9.5	11.0	10.5	14.0	13.5	15.5	15.0	16.0	15.5	16.5	16.0
14	10.5	10.0	11.0	10.5	13.5	13.0	15.5	15.0	16.0	15.5	16.5	16.0
15	10.5	10.0	11.0	10.5	13.5	13.0	15.5	15.0	16.0	15.5	16.0	16.0
16	10.5	10.0	11.0	10.5	13.5	13.0	15.5	15.0	16.0	15.5	16.0	16.0
17	10.5	10.0	11.0	10.5	14.0	13.5	15.5	15.0	16.0	15.5	16.0	16.0
18	10.5	10.0	11.0	10.5	14.5	13.5	15.5	15.0	16.0	15.5	16.5	16.0
19	10.5	10.0	11.5	11.0	14.5	13.5	16.0	15.5	16.0	15.5	16.5	16.0
20	10.5	10.0	11.5	11.0	14.5	14.0	16.0	15.5	16.0	15.5	16.5	16.0
21	10.5	10.0	11.5	11.0	15.0	14.0	16.0	15.5	16.0	15.5	16.5	16.0
22	10.5	10.0	11.5	11.0	15.0	14.5	16.0	15.5	16.0	15.5	16.5	16.0
23	10.5	10.0	11.5	11.0	15.0	14.5	16.0	15.5	16.0	15.5	16.5	16.0
24	10.5	10.0	11.5	11.0	15.0	14.5	16.0	15.5	16.0	15.5	16.5	16.0
25	10.5	10.0	11.5	11.0	15.0	14.5	16.0	15.5	16.0	15.5	16.0	16.0
26	10.5	10.0	11.5	11.0	15.0	14.5	16.0	15.5	16.0	15.5	16.0	16.0
27	10.5	10.0	11.5	11.0	15.5	14.5	16.0	15.5	16.0	15.5	16.0	16.0
28	11.0	10.5	12.0	11.0	15.5	15.0	16.0	15.5	16.0	15.5	16.0	16.0
29	11.0	10.5	12.0	11.5	15.5	15.0	16.0	15.5	16.0	15.5	16.0	16.0
30	11.0	10.5	12.0	11.5	15.5	15.0	16.0	15.5	16.0	15.5	16.0	16.0
31	---	---	12.0	11.5	---	---	16.0	15.5	16.0	15.5	---	---
MONTH	11.0	9.5	12.0	10.5	15.5	11.5	16.0	15.0	16.0	15.5	16.5	15.5

11325500 MOKELUMNE RIVER AT WOODBRIDGE, CALIF.

LOCATION.--Lat 38°09'31", long 121°18'09", in NW¼NE¼ sec.34, T.4 N., R.6 E., San Joaquin County, at gaging station on right bank at Woodbridge, 0.4 mi (0.6 km) downstream from county highway bridge, and 0.5 mi (0.8 km) downstream from dam and canal intake of Woodbridge Irrigation District.

DRAINAGE AREA.--661 mi^2 (1,712 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1951 to September 1963, water years 1964-66, 1968 to current year (partial-record station).
Water temperatures: March 1951 to September 1958, November 1960 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 23.0°C July 25, 26.
Period of record:
Water temperatures: Maximum (1951-54, 1956-58, 1960 to current year), 28.5°C July 9, 1951; minimum (1951-55, 1956-58, 1961-73), 1.5°C Jan. 29, 30, 1954.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No temperature record Nov. 24 to Dec. 6, Dec. 12 to Feb. 8.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
FEB., 1974										
22...	0945	181	5.2	--	2.5	20	0	16	1.4	--
SEP.										
05...	1300	481	4.5	1.2	2.3	24	0	20	.7	66

DATE	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
FEB., 1974										
22...	--	--	18	2	--	50	7.1	8.0	6	12.0
SEP.										
05...	.09	85.7	16	0	.2	46	7.2	20.0	1	8.4

11325500 MOKELUMNE RIVER AT WOODBRIDGE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.5	14.5	13.5	16.5	15.5	22.0	20.0	21.5	19.5	21.0	18.5
2	12.0	10.0	14.5	13.0	16.0	15.5	22.0	19.5	22.0	20.0	21.0	19.0
3	12.0	10.5	14.5	13.0	16.5	16.0	22.0	20.0	22.0	20.0	20.5	19.0
4	12.0	11.0	15.5	13.5	16.5	16.0	22.0	20.0	21.5	20.0	21.0	19.0
5	11.5	11.5	15.5	14.0	16.5	16.0	22.0	20.0	21.5	19.5	21.0	19.0
6	11.5	11.0	16.0	14.0	16.5	16.0	21.5	20.0	22.0	19.5	21.5	19.0
7	11.5	11.0	16.5	14.5	16.5	16.0	21.0	19.5	22.0	20.0	21.5	19.5
8	11.5	11.0	16.5	15.0	16.5	16.0	21.0	19.0	22.0	19.5	21.0	19.5
9	11.5	11.5	16.0	14.5	17.0	16.5	20.0	18.0	21.5	19.5	21.0	19.0
10	11.5	11.5	15.0	14.0	17.0	16.5	19.5	17.5	21.5	19.5	21.0	19.0
11	11.5	11.0	15.0	14.0	17.5	17.0	20.5	18.0	21.0	19.0	21.0	19.5
12	11.5	11.5	15.0	14.0	17.5	17.0	21.0	18.5	21.0	19.0	21.0	19.0
13	12.0	11.5	14.5	13.5	17.5	17.0	21.5	19.0	21.0	19.0	20.5	18.5
14	12.0	11.5	14.5	13.5	17.5	17.0	21.5	19.5	21.0	18.5	20.0	18.5
15	12.0	11.5	15.0	14.0	17.5	17.0	21.5	19.5	21.0	19.0	20.0	18.5
16	12.0	11.5	14.5	13.5	17.5	17.0	21.0	19.5	21.0	18.5	20.0	18.0
17	12.0	11.5	14.0	13.0	17.5	17.0	21.5	19.0	21.0	18.5	20.0	18.0
18	12.0	11.5	14.0	13.0	17.5	17.0	22.0	19.5	20.5	18.5	20.0	18.5
19	12.0	11.5	14.5	13.5	18.5	17.0	22.0	20.0	20.5	18.5	20.0	18.5
20	12.0	11.5	15.0	13.5	20.0	17.5	22.5	20.5	20.5	18.5	20.0	18.0
21	12.5	11.5	15.5	14.0	20.5	18.5	22.0	20.0	21.0	18.5	20.0	18.5
22	12.5	12.0	16.5	14.5	21.0	19.0	22.0	20.0	21.0	19.0	20.5	18.5
23	12.5	12.0	16.5	15.0	21.0	19.5	22.5	20.0	21.5	19.5	20.5	18.5
24	12.5	11.5	17.0	15.5	21.0	19.0	22.5	20.5	21.5	19.5	20.5	18.5
25	12.5	11.5	17.5	15.5	21.0	19.0	23.0	21.0	21.5	19.5	20.0	18.5
26	12.5	12.0	17.5	16.0	21.0	19.0	23.0	21.0	21.5	19.5	19.5	17.5
27	13.0	12.0	17.5	16.5	21.0	19.0	22.5	20.5	21.0	19.0	19.5	17.5
28	13.5	12.5	17.0	16.0	21.5	19.5	22.0	20.5	21.0	19.0	19.5	17.5
29	14.0	13.0	16.0	15.0	22.0	20.0	22.0	20.0	20.5	19.0	19.5	17.5
30	14.5	13.0	16.5	15.0	22.0	20.5	22.0	20.0	20.5	18.5	19.5	17.5
31	---	---	16.5	15.5	---	---	22.0	20.5	20.5	18.5	---	---
MONTH	14.5	10.0	17.5	13.0	22.0	15.5	23.0	17.5	22.0	18.5	21.5	17.5

11335000 COSUMNES RIVER AT MICHIGAN BAR, CALIF.

LOCATION.--Lat 38°30'01", long 121°02'39", in NW¼SE¼ sec.36, T.8 N., R.8 E., Sacramento County, at gaging station on downstream side of midstream pier of highway bridge at Michigan Bar, 5.5 mi (8.8 km) southwest of Latrobe, and 12 mi (19 km) downstream from confluence of North and Middle Fork Cosumnes River.

DRAINAGE AREA.--536 mi^2 (1,388 km^2).

PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), October 1953 to September 1963, water years 1964 to current year (partial-record station).
Water temperatures: October 1962 to current year.
Sediment records: Water years 1958-62 (partial-record station), October 1962 to September 1970, water years 1971 to current year (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 29.5°C July 24, Aug. 2, 3, 6; minimum, 3.5°C Jan. 2, 3.
Period of record:
Water temperatures: Maximum (1965 to current year), 30.0°C Aug. 26, 27, 1967; minimum (1963 to current year), 1.5°C on several days in 1965, 1968, and 1973.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV., 1973								
15...	0900	488	8.0	--	4.2	--	42	0
MAR., 1974								
13...	0930	1980	7.3	3.5	3.5	.5	41	0
JUNE								
11...	0930	239	4.7	--	3.2	--	30	0
SEP.								
03...	0745	52	5.4	2.6	3.4	--	34	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV., 1973									
15...	34	--	3.9	--	81	.11	107	40	6
MAR., 1974									
13...	34	3.0	1.3	.05	60	.08	321	33	0
JUNE									
11...	25	--	2.5	--	41	.06	26.5	22	0
SEP.									
03...	28	--	1.0	--	60	.08	8.42	24	0

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
NOV., 1973								
15...	--	--	98	7.2	10.5	7	11.2	--
MAR., 1974								
13...	19	.3	80	7.2	9.5	4	12.4	0
JUNE								
11...	--	--	57	7.3	22.0	0	8.7	--
SEP.								
03...	--	.3	63	7.4	23.5	4	7.1	--

11335000 COSUMNES RIVER AT MICHIGAN BAR, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	13.0	10.5	9.0	7.0	6.0	8.0	6.5	12.0	10.0
2	20.5	16.0	15.5	12.5	9.0	7.5	5.5	3.5	8.0	6.5	11.0	9.0
3	20.0	15.5	15.0	11.0	7.5	6.5	4.5	3.5	7.5	6.0	9.0	7.5
4	19.5	15.0	13.5	10.0	7.0	6.0	5.5	4.5	7.5	5.5	9.0	7.0
5	20.0	15.0	11.5	10.5	7.5	6.0	6.0	5.0	7.0	6.0	9.5	7.5
6	19.0	15.5	12.5	11.0	8.0	7.0	6.0	5.0	6.5	5.0	9.5	8.5
7	17.0	16.5	13.5	12.5	8.5	7.5	7.0	5.0	6.5	4.5	10.0	9.5
8	17.5	16.0	14.0	13.0	8.5	7.5	6.0	5.0	7.0	5.0	9.5	8.5
9	17.0	15.0	13.5	13.0	7.5	7.0	5.0	4.5	7.5	5.5	10.0	7.5
10	16.5	14.0	13.5	13.0	7.0	6.5	5.5	4.0	8.0	6.5	10.0	8.5
11	17.0	15.0	13.5	13.0	7.5	6.5	5.5	4.5	8.0	6.5	10.0	9.5
12	18.0	15.0	13.0	12.0	7.5	6.5	7.5	5.5	8.5	7.5	12.0	10.0
13	19.0	15.0	12.0	11.0	9.0	7.0	8.0	7.0	8.5	7.0	11.5	9.5
14	19.5	15.5	12.0	10.5	8.5	7.5	7.5	7.0	8.0	7.0	12.5	10.0
15	20.0	16.0	11.0	10.5	8.0	7.0	8.0	7.5	9.0	7.0	12.5	10.5
16	20.5	16.0	11.5	10.5	7.5	6.5	9.5	8.0	10.0	8.0	12.5	11.5
17	20.0	16.0	12.0	11.0	8.5	6.5	10.0	9.5	9.0	7.5	12.5	11.5
18	20.5	16.0	11.5	9.5	8.0	6.5	10.0	9.0	8.5	7.5	12.5	10.0
19	19.5	16.0	9.5	7.5	7.0	6.0	10.0	9.0	10.0	8.0	12.0	9.5
20	21.0	17.0	7.5	6.5	7.0	6.0	9.0	8.5	9.0	7.5	12.5	10.0
21	20.5	17.5	8.5	6.5	8.0	6.5	8.5	7.0	8.5	7.5	11.5	10.5
22	18.0	16.5	8.0	7.5	8.5	7.5	7.0	5.5	9.5	7.5	12.5	10.5
23	18.0	16.0	8.0	7.0	8.5	7.0	7.0	5.5	9.5	7.5	12.0	10.5
24	16.0	14.5	8.5	7.5	7.0	6.0	7.0	6.0	10.0	8.0	12.0	10.0
25	15.0	13.5	8.0	7.0	7.0	6.0	7.0	6.0	10.5	8.5	11.5	10.5
26	15.0	13.0	8.0	6.5	8.5	6.5	7.0	6.0	10.0	9.5	12.5	10.5
27	15.0	13.5	8.5	7.5	9.5	8.5	6.0	5.0	10.0	9.0	12.0	11.5
28	15.5	13.5	8.0	7.0	10.0	9.5	6.5	5.0	10.0	9.5	11.5	10.0
29	15.5	13.0	7.5	7.0	10.5	10.0	6.5	5.5	---	---	11.5	10.5
30	15.5	12.5	9.0	7.5	9.5	7.5	6.5	5.5	---	---	11.5	10.5
31	16.0	13.0	---	---	7.5	6.5	6.5	6.0	---	---	10.0	8.0
MONTH	21.0	12.5	16.5	6.5	10.5	6.0	10.0	3.5	10.5	4.5	12.5	7.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	8.5	16.0	14.0	20.5	17.5	27.5	24.0	28.0	24.0	25.5	22.0
2	10.5	8.5	15.5	13.0	21.5	18.5	27.5	23.5	29.5	25.5	25.5	22.5
3	10.0	8.0	15.0	12.5	22.0	19.5	27.5	23.5	29.5	26.0	26.0	22.5
4	10.5	8.5	15.5	13.0	22.5	20.0	28.0	24.0	29.0	26.0	25.5	23.5
5	10.5	9.5	16.0	13.5	23.0	20.5	27.5	23.5	29.0	26.0	26.5	23.5
6	12.0	10.0	17.0	14.0	23.0	20.5	27.0	23.5	29.5	26.0	27.5	22.5
7	11.5	9.5	17.5	15.0	22.5	20.5	25.5	22.5	29.0	26.0	28.0	23.0
8	12.0	9.5	18.0	15.5	22.5	19.5	23.5	21.0	28.5	24.5	27.5	22.5
9	11.5	9.5	17.5	14.5	23.0	20.0	21.5	20.0	28.5	25.0	27.0	22.0
10	10.5	7.5	16.5	14.0	24.0	21.0	20.0	18.0	28.5	25.0	27.0	22.0
11	12.0	9.0	17.0	14.5	24.5	21.5	21.5	18.5	28.0	24.5	27.0	22.5
12	13.5	10.5	17.0	15.0	24.0	21.5	23.5	20.0	28.0	24.0	26.5	22.0
13	13.0	10.5	16.5	14.5	24.0	21.5	25.0	21.5	27.0	23.0	26.0	21.0
14	14.0	11.0	16.5	14.0	24.0	21.5	26.0	22.5	26.5	22.0	26.0	21.0
15	14.5	12.0	16.5	14.5	24.0	21.5	26.0	23.0	26.5	22.0	26.0	21.0
16	14.0	11.0	16.0	14.0	23.5	21.0	25.5	22.0	26.5	21.5	26.0	20.5
17	14.0	11.5	14.5	12.5	23.5	20.5	26.0	22.0	26.5	21.5	25.5	20.5
18	13.5	11.5	13.5	11.0	22.5	21.0	27.0	23.0	26.0	21.5	25.5	20.5
19	12.0	10.0	14.0	11.0	22.5	20.0	28.0	24.0	26.0	21.5	25.5	20.5
20	13.0	10.0	15.0	11.5	23.0	19.5	28.0	24.5	25.5	21.0	25.5	20.5
21	14.0	11.5	16.5	13.0	24.5	21.0	28.0	24.0	26.0	21.5	25.5	20.5
22	14.0	12.0	17.5	14.0	26.0	22.5	28.0	24.0	26.0	22.5	25.5	20.5
23	14.0	10.5	18.5	15.5	25.5	22.5	28.5	24.5	26.0	23.0	25.5	20.5
24	11.0	9.0	19.5	16.5	25.5	22.0	29.5	25.5	26.5	23.5	25.0	20.5
25	10.0	7.5	20.5	17.5	24.5	21.5	29.0	27.0	26.5	24.0	24.5	20.5
26	11.5	9.0	21.5	18.5	24.5	21.0	29.0	26.0	26.5	23.5	24.5	20.5
27	12.0	9.0	22.0	19.5	25.0	21.0	29.0	25.0	26.5	23.5	24.0	19.5
28	14.0	10.5	20.5	18.5	26.0	21.5	29.0	24.5	26.0	23.0	24.0	19.5
29	14.5	12.0	19.5	17.0	27.5	23.5	28.5	24.5	25.5	22.5	24.0	19.0
30	16.0	13.0	20.0	17.0	27.5	24.0	28.5	24.5	25.5	22.5	22.5	18.0
31	---	---	20.0	17.5	---	---	27.0	25.0	25.5	22.0	---	---
MONTH	16.0	7.5	22.0	11.0	27.5	17.5	29.5	18.0	29.5	21.0	28.0	18.0

11335000 COSUMNES RIVER AT MICHIGAN BAR, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.							
01...	1021	18.5	29	2	.16	--	--
NOV.							
01...	0940	14.0	46	1	.12	--	--
DEC.							
03...	1025	6.5	767	7	14	--	--
JAN.							
02...	1200	4.0	1420	10	38	--	--
FEB.							
04...	1130	6.0	684	2	3.7	--	--
27...	1518	9.5	676	4	7.3	--	--
APR.							
01...	1342	9.0	4870	87	1140	42	--
MAY							
02...	1501	14.5	1210	5	16	--	86
JUNE							
05...	1012	20.5	351	2	1.9	--	--
JULY							
01...	1155	24.5	95	2	.51	--	--
AUG.							
05...	1054	26.0	56	8	1.2	--	--
SEP.							
03...	1436	25.0	50	2	.27	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
OCT.						
01...	--	--	--	--	--	--
NOV.						
01...	--	--	--	--	--	--
DEC.						
03...	--	--	--	--	--	--
JAN.						
02...	--	--	--	--	--	--
FEB.						
04...	--	--	--	--	--	--
27...	--	--	--	--	--	--
APR.						
01...	55	--	76	--	99	100
MAY						
02...	--	90	--	100	--	--
JUNE						
05...	--	--	--	--	--	--
JULY						
01...	--	--	--	--	--	--
AUG.						
05...	--	--	--	--	--	--
SEP.						
03...	--	--	--	--	--	--

11341400 SACRAMENTO RIVER NEAR MT SHASTA, CALIF.

LOCATION.--Lat 41°15'56", long 122°18'32", in SE¼SE¼ sec.33, T.40 N., R.4 W., Siskiyou County, at gaging station on left bank, 200 ft (61 m) upstream from Stink Creek, 0.3 mi (0.5 km) upstream from Southern Pacific Railroad bridge, and 3.3 mi (5.3 km) south of town of Mt Shasta.
DRAINAGE AREA.--135 mi^2 (350 km^2).
PERIOD OF RECORD.--Chemical analyses: May 1970 to September 1972.
Water temperatures: October 1965 to current year.
Sediment records: Water year 1972 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 20.0°C July 25-28; minimum recorded, 2.0°C Jan. 8-10.
Period of record:
Water temperatures: Maximum (1966 to current year), 20.0°C July 25-28, 1974; minimum (1965-66, 1967 to current year), 1.5°C on several days in 1968 and 1969.
REMARKS.--No record Jan. 16-28, Mar. 2-6, Aug. 13.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.0	12.5	11.5	6.0	6.0	4.0	3.5	4.5	4.0	5.5	4.0
2	12.5	10.0	12.5	11.5	6.0	5.5	3.5	3.0	4.5	3.5	---	---
3	12.5	10.0	12.0	11.5	6.0	5.5	3.5	3.5	4.5	3.5	---	---
4	12.5	10.0	12.0	11.5	6.0	5.5	3.5	3.0	4.5	3.5	---	---
5	12.5	10.0	12.0	10.0	6.0	5.5	3.5	3.0	4.0	3.5	---	---
6	12.0	11.0	11.5	11.0	6.5	6.0	3.5	3.0	4.5	3.5	---	---
7	12.0	11.5	12.5	11.5	6.5	6.5	3.5	3.0	4.5	3.5	3.0	2.5
8	12.0	10.5	12.5	11.5	6.5	6.0	3.0	2.0	4.5	3.5	3.5	2.5
9	12.5	11.0	12.5	12.0	6.5	6.0	3.0	2.0	4.5	3.5	4.0	2.5
10	12.5	11.0	13.0	12.5	6.5	6.0	3.0	2.0	4.5	3.5	4.0	3.5
11	12.5	11.0	12.5	9.5	6.0	5.5	4.0	3.0	5.0	3.5	4.0	3.0
12	12.5	11.0	9.5	7.5	6.0	5.5	4.0	3.0	4.5	4.0	4.0	3.5
13	13.0	11.0	7.5	7.0	5.5	5.5	4.5	3.5	4.5	3.5	4.5	3.5
14	13.0	11.5	7.0	6.5	5.5	5.5	4.0	3.5	4.5	4.0	4.5	3.5
15	13.0	10.5	7.0	7.0	5.5	5.0	4.5	4.0	5.0	4.0	5.0	4.0
16	13.0	10.5	7.0	7.0	5.5	5.0	---	---	5.0	3.5	5.5	4.0
17	13.0	10.0	7.0	6.5	5.5	5.0	---	---	4.5	4.0	5.0	4.0
18	13.0	10.5	7.5	7.0	5.0	5.0	---	---	4.5	4.0	5.0	4.0
19	12.5	11.0	7.0	6.5	5.5	5.0	---	---	5.0	4.0	5.0	4.0
20	13.0	11.5	6.5	5.5	5.5	5.0	---	---	4.5	3.5	5.0	4.0
21	13.0	12.0	6.5	6.0	5.5	5.0	---	---	4.5	3.5	5.5	4.5
22	14.0	11.5	7.0	6.5	5.5	5.0	---	---	5.0	3.5	6.0	4.5
23	14.0	13.0	7.0	7.0	5.5	5.0	---	---	5.0	4.0	6.0	4.5
24	13.5	12.5	7.0	7.0	5.5	5.0	---	---	5.5	4.0	6.0	5.0
25	13.0	12.5	7.0	6.5	5.5	5.0	---	---	4.5	3.5	5.5	5.0
26	13.0	12.5	7.0	7.0	5.0	5.0	---	---	4.5	4.0	5.5	5.0
27	13.0	12.5	7.0	7.0	5.0	5.0	---	---	5.0	3.5	5.5	5.0
28	13.0	12.0	7.0	7.0	5.0	5.0	---	---	5.5	4.0	6.0	5.0
29	12.0	11.5	7.0	6.5	5.0	5.0	4.0	3.5	---	---	6.0	5.5
30	12.0	11.5	6.5	5.5	5.0	4.5	4.5	3.5	---	---	6.0	5.5
31	12.5	11.5	---	---	4.5	4.0	4.0	3.5	---	---	6.0	5.5
MONTH	14.0	10.0	13.0	5.5	6.5	4.0	---	---	5.5	3.5	6.0	2.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	5.5	8.0	7.0	10.5	9.5	16.0	13.0	17.5	13.5	16.0	12.5
2	6.0	5.5	8.5	7.5	12.0	10.0	16.5	12.0	17.0	12.5	16.5	12.5
3	6.0	5.5	8.5	7.0	12.0	11.0	16.5	12.5	17.5	13.0	17.0	12.5
4	6.5	5.5	8.5	7.5	11.0	10.5	15.0	12.5	17.5	13.5	17.0	12.5
5	6.0	5.5	8.5	7.5	11.0	10.5	15.5	13.0	14.5	13.5	17.0	12.5
6	6.5	5.5	9.0	8.0	11.0	10.5	16.5	13.0	17.0	13.0	16.5	12.0
7	6.5	5.5	9.0	8.0	11.0	10.0	14.5	12.5	17.0	13.0	16.5	13.0
8	6.5	5.5	9.0	7.5	11.0	10.0	14.0	12.5	16.5	12.5	16.5	12.5
9	6.5	5.5	9.0	8.0	11.0	10.0	15.5	13.5	16.5	12.0	16.5	12.5
10	7.0	5.5	9.0	8.0	11.5	10.5	14.5	13.0	16.5	12.0	16.5	12.5
11	7.0	6.0	9.0	8.0	12.5	10.5	15.0	12.5	16.5	12.0	15.5	12.0
12	7.0	6.0	9.0	8.5	13.5	11.0	16.0	12.0	16.0	12.0	15.5	11.5
13	7.5	5.5	9.0	8.5	13.5	11.5	16.5	13.0	---	---	15.5	11.0
14	7.0	6.0	9.5	8.5	13.0	12.0	16.5	13.0	16.0	12.5	15.5	11.5
15	7.5	6.0	9.5	8.5	12.5	11.5	16.0	13.0	16.0	12.0	15.5	11.5
16	7.5	6.0	9.5	8.0	13.0	11.5	16.0	12.5	16.5	12.0	16.0	11.5
17	7.5	6.0	9.5	7.5	13.5	11.5	16.0	12.5	17.5	12.0	16.0	12.5
18	6.5	6.0	10.0	8.0	14.5	12.0	16.0	12.5	16.0	11.5	16.0	12.5
19	7.0	6.0	10.0	8.0	14.0	12.5	16.0	12.5	16.0	12.0	16.0	12.5
20	8.0	6.5	10.5	8.0	15.5	14.0	16.0	12.5	16.5	11.5	16.0	12.5
21	8.0	6.5	11.0	9.0	15.5	13.5	16.0	12.5	17.0	12.0	16.0	12.5
22	7.5	6.5	12.0	10.0	15.5	14.0	17.0	12.0	17.0	13.0	16.5	12.5
23	7.0	6.5	12.0	10.5	15.5	13.5	17.5	12.5	17.0	13.0	16.0	11.5
24	7.0	6.5	11.0	10.0	15.0	13.0	18.5	12.5	16.5	13.0	15.5	11.5
25	7.5	6.5	11.5	10.0	14.0	12.0	20.0	15.0	17.0	13.0	15.5	11.5
26	7.5	6.5	12.5	10.5	14.5	11.5	20.0	16.0	17.0	12.5	15.5	12.0
27	8.5	6.5	12.0	10.5	14.5	12.0	20.0	15.5	17.0	12.5	15.0	11.5
28	8.5	7.0	10.5	9.5	15.0	12.0	20.0	15.5	17.0	13.0	15.0	11.0
29	8.5	7.0	10.0	8.5	15.0	12.5	18.0	14.5	16.5	12.5	15.0	11.5
30	8.5	7.0	10.0	9.0	15.5	13.0	18.5	13.5	16.5	13.0	15.0	11.0
31	---	---	10.5	9.0	---	---	18.0	14.0	16.5	12.5	---	---
MONTH	8.5	5.5	12.5	7.0	15.5	9.5	20.0	12.0	17.5	11.5	17.0	11.0

11342000 SACRAMENTO RIVER AT DELTA, CALIF.

LOCATION.--Lat 40°56'23", long 122°24'58", in SW¼NW¼ sec.35, T.36 N., R.5 W., Shasta County, Bureau of Reclamation property, at gaging station on left bank 0.2 mi (0.3 km) downstream from Dog Creek, 0.6 mi (1.0 km) southeast of Delta, and 2.8 mi (4.5 km) south of Lamoine.

DRAINAGE AREA.--425 mi^2 (1,101 km^2).

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), December 1953 to September 1972, water years 1973 to current year (partial-record station).
Water temperatures: June to September 1951, October 1953 to September 1957, October 1962 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 23.0°C July 30, Aug. 2; minimum, 3.0°C Jan. 6-10.
Period of record:
Water temperatures: Maximum (1951, 1953-57, 1963 to current year), 29.5°C July 15, 1972; minimum, freezing point on several days in 1964, 1967, 1968, and 1973.

REMARKS.--Chemical-quality analyses furnished by California Department of Water Resources. Temperature recorder stopped Dec. 2,3; range in temperature, 7.0°C to 8.5°C. Probe buried and/or damaged Jan. 16, 17, Mar. 29, 30; no available temperature ranges.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV., 1973								
14...	1400	6180	3.8	5.0	2.2	.2	38	0
JAN., 1974								
14...	0915	6000	--	--	--	--	--	--
MAR.								
14...	1330	3190	--	--	--	--	--	--
MAY								
07...	0830	3150	--	--	--	--	--	--
JULY								
16...	0850	512	--	--	--	--	--	--
SEP.								
12...	1340	262	--	--	--	--	--	--

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV., 1973									
14...	31	1.0	1.3	.09	40	.05	667	30	0
JAN., 1974									
14...	--	--	--	--	--	--	--	--	--
MAR.									
14...	--	--	--	--	--	--	--	--	--
MAY									
07...	--	--	--	--	--	--	--	--	--
JULY									
16...	--	--	--	--	--	--	--	--	--
SEP.									
12...	--	--	--	--	--	--	--	--	--

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
NOV., 1973								
14...	14	.2	64	7.2	9.0	30	13.5	100
JAN., 1974								
14...	--	--	68	7.1	8.0	20	12.6	--
MAR.								
14...	--	--	75	7.4	8.5	10	12.6	--
MAY								
07...	--	--	71	7.4	9.0	15	12.0	--
JULY								
16...	--	--	113	7.6	17.0	2	10.4	--
SEP.								
12...	--	--	140	8.2	17.5	1	10.0	--

11342000 SACRAMENTO RIVER AT DELTA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	13.5	14.0	10.0	8.5	7.5	6.5	5.0	7.0	5.5	8.0	7.5
2	17.0	13.0	10.0	8.0	---	---	5.0	4.0	7.0	5.0	8.0	7.5
3	16.0	11.0	8.5	6.5	---	---	5.0	4.0	7.5	5.0	9.5	7.0
4	16.0	10.0	7.5	7.0	8.0	7.5	4.5	3.5	7.5	5.5	9.0	7.0
5	15.0	10.0	7.0	5.5	8.5	8.0	4.5	3.5	7.0	5.0	8.5	7.5
6	12.0	10.5	10.0	6.5	9.0	8.5	3.5	3.0	7.5	5.0	8.5	7.5
7	14.0	10.5	10.5	10.0	9.0	9.0	4.0	3.0	8.0	5.5	7.5	7.0
8	12.0	11.0	11.0	10.5	9.5	8.0	4.5	3.0	8.0	6.0	8.5	6.5
9	14.0	10.0	11.5	11.0	9.5	8.0	4.5	3.0	7.5	5.5	8.5	7.0
10	14.0	9.5	12.0	11.5	8.5	7.5	4.5	3.0	7.5	5.5	8.0	7.5
11	15.0	10.5	11.5	11.0	8.0	6.5	4.0	4.0	6.5	5.0	7.5	7.0
12	16.0	11.0	11.5	10.5	7.0	6.5	4.0	3.5	6.0	5.5	7.5	7.0
13	16.0	11.5	10.5	9.5	7.5	7.0	5.5	3.5	6.0	4.5	7.5	6.5
14	16.5	12.0	9.5	9.0	7.5	7.5	6.5	5.5	6.5	5.5	8.0	7.0
15	16.5	12.0	10.0	9.5	7.5	7.0	7.5	6.5	6.5	5.0	9.0	7.5
16	16.5	12.0	10.0	9.5	8.0	7.5	---	---	6.0	5.5	8.5	7.5
17	16.5	12.0	9.5	8.5	8.5	8.0	---	---	6.0	4.5	9.5	7.5
18	16.0	11.5	9.5	8.5	8.5	7.5	7.5	7.0	6.0	5.0	9.0	7.0
19	14.5	11.5	9.5	8.0	7.5	6.5	8.0	7.0	7.0	5.0	9.5	6.5
20	13.5	13.0	9.0	8.5	8.0	7.5	8.5	6.5	6.5	5.0	9.5	7.0
21	13.5	13.0	8.5	8.5	8.0	7.5	8.0	6.5	6.5	5.5	9.0	6.5
22	13.0	11.5	8.5	8.0	8.5	8.0	8.5	6.5	7.5	6.0	9.0	7.5
23	11.5	11.0	8.0	8.0	8.5	8.0	9.0	7.0	8.0	5.5	9.5	7.5
24	12.0	10.5	8.5	7.5	8.5	7.5	9.0	7.0	9.0	6.5	9.0	7.5
25	12.0	9.5	8.5	7.5	8.5	8.5	8.5	7.0	8.0	6.5	8.0	7.0
26	13.0	9.5	7.5	7.0	8.5	7.5	8.5	6.5	8.5	7.5	7.0	7.0
27	14.0	10.5	8.0	7.5	8.0	7.5	7.0	6.0	8.0	6.5	7.0	6.5
28	13.0	11.0	8.0	8.0	8.5	8.0	7.5	6.0	7.5	7.0	7.0	6.5
29	12.5	9.5	9.0	8.0	9.5	8.5	7.5	6.0	---	---	---	---
30	13.0	9.5	9.0	7.5	8.5	7.0	7.0	5.5	---	---	---	---
31	14.0	11.0	---	---	7.0	6.5	6.5	5.5	---	---	7.5	7.0
MONTH	17.5	9.5	14.0	5.5	9.5	6.5	9.0	3.0	9.0	4.5	9.5	6.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	7.0	12.0	10.5	13.5	11.5	17.0	15.0	22.5	20.5	19.5	17.0
2	8.5	7.5	12.0	10.0	14.0	12.0	17.0	15.0	23.0	21.0	19.5	17.0
3	10.5	8.0	12.0	10.0	14.0	12.0	17.5	15.0	22.5	20.5	19.0	16.5
4	11.0	8.5	12.0	10.0	13.0	12.0	17.5	15.5	22.0	20.5	19.0	16.5
5	10.5	9.5	12.5	10.0	13.5	12.0	17.5	15.5	21.5	20.0	19.5	17.0
6	11.5	9.0	12.5	10.5	14.0	12.0	17.0	15.5	22.0	19.5	19.0	17.0
7	11.0	9.0	12.5	10.5	13.5	12.0	16.0	15.5	22.0	19.5	19.0	17.0
8	10.5	9.0	12.5	10.5	14.0	11.5	15.5	15.0	22.0	20.0	19.0	16.5
9	10.5	9.0	12.5	10.5	14.5	12.5	15.5	15.0	22.0	20.0	19.0	16.5
10	11.5	9.0	12.0	10.0	15.0	12.5	16.0	15.5	22.0	19.5	19.0	17.0
11	11.5	9.5	12.0	10.0	15.0	13.0	17.5	15.5	22.0	20.0	18.5	17.0
12	11.5	9.5	11.5	10.5	14.5	13.0	18.0	15.5	21.0	19.5	18.5	16.5
13	12.0	9.5	12.0	10.0	15.0	13.0	18.5	16.5	21.0	19.0	18.5	16.5
14	11.5	9.5	11.5	10.0	15.0	13.0	18.5	16.5	21.0	19.0	18.0	15.5
15	11.5	9.5	11.5	10.0	15.0	13.0	18.5	16.5	21.0	19.0	18.5	15.5
16	12.5	9.5	10.5	9.5	14.0	13.0	18.5	16.5	20.5	18.5	18.5	15.5
17	11.5	10.0	10.5	9.5	14.5	12.0	19.0	17.0	20.5	18.5	18.5	15.5
18	11.0	10.0	11.0	9.5	14.5	13.0	19.5	17.5	20.0	18.0	18.5	16.0
19	11.5	9.5	12.0	9.5	14.0	13.0	19.5	17.5	20.0	18.5	18.5	16.0
20	12.5	10.0	12.0	10.0	15.0	12.5	20.0	18.0	20.5	18.0	18.5	16.0
21	12.5	10.0	12.0	10.5	16.0	13.5	20.5	18.0	20.5	17.5	18.5	16.0
22	12.0	11.0	13.0	10.5	15.5	14.0	20.5	18.5	20.5	18.0	18.0	16.0
23	11.0	9.5	13.0	11.0	16.0	14.0	21.0	18.5	20.5	18.5	18.0	15.5
24	9.5	9.0	13.0	11.0	15.5	14.0	21.5	19.0	20.5	18.5	18.0	15.5
25	10.5	9.5	13.5	11.5	15.5	14.0	21.5	19.5	20.0	18.0	18.0	15.5
26	10.5	9.5	14.0	11.5	15.5	13.5	21.5	20.0	20.0	18.0	17.5	15.5
27	12.0	9.5	13.5	12.0	16.0	14.0	21.5	19.5	20.0	17.5	17.5	15.5
28	12.5	10.0	13.0	11.5	16.5	14.5	22.0	20.0	19.5	17.5	17.0	15.0
29	13.0	10.5	13.0	11.5	17.5	15.5	22.5	20.0	19.5	17.5	17.0	14.5
30	12.5	10.5	13.5	11.5	17.0	15.5	23.0	20.0	19.0	17.5	17.0	14.5
31	---	---	13.5	11.5	---	---	22.5	20.5	19.5	17.5	---	---
MONTH	13.0	7.0	14.0	9.5	17.5	11.5	23.0	15.0	23.0	17.5	19.5	14.5

11348500 PIT RIVER NEAR CANBY, CALIF.

LOCATION.--Lat 41°24'22", long 120°55'36", in NW¼SW¼ sec.10, T.41 N., R.9 E., Modoc County, at gaging station on right bank at lower end of Warm Spring Valley, and 4 mi (6 km) southwest of Canby.

DRAINAGE AREA.--1,431 mi² (3,706 km²), excluding Goose Lake basin.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-58 (partial-record station), October 1958 to September 1971, water year 1972 (partial-record station), October 1972 to current year.
Water temperatures: March 1965 to current year.
Sediment records: Water years (1957-61, 1967-70 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 27.5°C June 29 and sometime during period July 20 to Aug. 7; minimum, freezing point on many days during winter period.
Period of record:
Water temperatures: Maximum (1965-71, 1972 to current year), 31.0°C June 28, 1973; minimum (1965-66, 1967-69, 1970 to current year), freezing point on many days during most years.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Clock stopped June 15-18, July 5-17, July 20 to Aug. 7; range in temperature, 17.5°C to 24.5°C, 15.5°C to 24.0°C, and 18.5°C to 27.5°C, respectively.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
NOV.										
14...	0830	--	199	--	--	17	7.7	22	4.3	126
DEC.										
05...	1005	--	179	--	--	--	--	18	--	110
JAN.										
15...	1150	--	1240	--	--	--	--	12	--	59
MAY										
08...	1335	515	--	2800	60	--	--	9.4	--	78

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)
NOV.										
14...	0	103	11	5.7	.32	--	--	--	170	.23
DEC.										
05...	0	90	--	3.9	--	--	--	--	--	--
JAN.										
15...	0	48	--	2.0	--	--	--	--	--	--
MAY										
08...	0	64	--	.0	.19	.60	.12	.06	--	--

DATE	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.										
14...	91.3	74	0	38	1.1	100	--	--	--	--
DEC.										
05...	--	67	0	--	1.0	100	--	--	--	--
JAN.										
15...	--	39	0	--	.8	100	--	--	--	--
MAY										
08...	--	53	0	--	.6	100	0	10	0	10

11348500 PIT RIVER NEAR CANBY, CALIF.--Continued

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.								
15...	1500	--	147	327	8.0	13.0	30	11.4
NOV.								
14...	0830	--	199	245	7.7	4.0	40	12.3
DEC.								
05...	1005	--	179	211	8.2	1.0	24	13.0
JAN.								
15...	1150	--	1240	130	7.4	2.5	190	12.5
FEB.								
05...	1700	198	--	227	7.4	2.5	20	13.0
MAR.								
14...	0715	--	1820	146	7.4	5.0	150	10.6
APR.								
17...	0730	--	440	156	7.6	11.0	25	9.6
MAY								
08...	1335	515	--	143	7.6	18.5	25	8.8
JUNE								
06...	0650	--	159	221	7.6	14.5	15	7.4
JULY								
17...	1205	--	132	195	8.1	21.0	25	10.6
AUG.								
15...	0645	--	42	267	7.8	16.0	15	6.7
SEP.								
12...	0725	--	92	263	8.0	15.0	25	7.2

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	13.0	10.0	5.5	4.0	1.5	1.5	1.0	4.0	2.0	2.5	0.0
2	16.0	11.0	7.0	3.0	4.0	1.5	1.0	0.0	2.5	1.0	1.5	0.0
3	15.0	10.0	6.0	2.5	3.5	1.5	2.0	1.0	4.0	0.0	3.5	0.0
4	15.0	10.0	4.0	1.5	2.0	1.0	1.5	0.5	3.5	1.0	3.5	0.5
5	14.0	9.5	5.5	2.0	2.5	1.0	1.5	1.0	2.5	0.0	5.5	3.0
6	12.0	10.5	7.0	4.5	4.0	2.0	2.0	1.5	3.0	0.0	5.0	2.5
7	10.5	8.5	7.5	6.0	4.5	3.5	2.0	1.0	4.0	0.0	2.5	0.0
8	10.0	6.5	10.5	7.5	5.0	3.5	1.5	0.0	5.5	0.0	3.5	0.0
9	11.5	6.5	11.0	7.5	6.5	4.0	2.0	0.5	6.0	1.0	3.5	0.0
10	11.5	7.5	10.0	9.0	5.5	2.5	2.0	0.5	6.5	1.5	5.0	2.0
11	13.0	9.0	10.5	9.0	4.0	2.5	2.0	1.0	6.5	2.0	7.0	3.5
12	13.5	9.5	9.5	4.5	3.5	1.5	2.0	1.0	5.0	3.0	6.0	4.0
13	15.0	10.5	6.0	4.0	3.5	1.5	2.0	1.5	6.0	1.5	6.0	2.0
14	17.0	11.0	4.5	3.0	4.0	2.0	2.0	1.5	6.0	3.5	8.0	4.5
15	16.0	10.5	6.5	4.5	6.0	2.0	4.0	1.5	6.0	2.5	11.0	6.0
16	16.0	10.0	6.5	4.5	6.0	3.5	4.5	3.5	5.5	3.5	11.0	8.0
17	15.5	10.0	5.0	3.0	6.0	5.0	5.0	2.5	5.5	2.0	11.5	8.0
18	15.5	9.5	3.5	1.0	6.0	4.0	5.5	3.5	4.0	2.5	12.0	6.5
19	14.5	9.5	2.5	0.0	5.0	3.0	5.5	4.0	5.0	1.5	12.0	6.0
20	14.0	11.5	2.0	0.5	5.0	4.0	4.5	2.0	4.0	1.0	11.0	6.5
21	13.0	11.0	2.0	0.5	6.0	3.5	3.0	0.5	3.0	0.0	10.5	6.5
22	12.0	8.5	2.0	0.5	4.5	3.5	3.5	0.0	2.5	0.0	10.5	7.0
23	8.5	6.0	1.5	0.0	4.5	3.5	4.0	1.0	4.0	0.0	11.0	7.0
24	8.5	5.5	2.5	0.0	5.5	3.5	4.5	1.5	6.0	0.0	11.5	8.0
25	10.5	6.0	2.0	0.5	7.0	4.5	4.0	2.0	6.5	2.5	11.0	9.0
26	11.0	5.0	2.0	0.0	4.5	3.5	3.0	1.0	5.0	2.5	10.5	7.5
27	11.5	5.5	3.0	1.0	5.0	4.0	2.5	1.5	4.5	1.5	9.5	6.0
28	9.5	5.5	5.5	3.0	5.5	5.0	4.0	0.5	3.5	2.0	7.0	4.5
29	9.5	4.0	6.0	3.5	6.5	4.5	4.0	1.0	---	---	7.0	6.0
30	10.0	4.0	5.5	3.5	5.0	3.5	4.5	1.5	---	---	6.0	4.5
31	10.5	5.0	---	---	4.0	1.5	3.5	3.0	---	---	4.5	3.0
MONTH	18.0	4.0	11.0	0.0	7.0	1.0	5.5	0.0	6.5	0.0	12.0	0.0

11348500 PIT RIVER NEAR CANBY, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	3.5	17.5	14.0	25.5	16.5	27.0	20.0	---	---	24.5	18.5
2	5.5	3.0	17.0	13.0	25.5	19.0	25.5	17.5	---	---	24.5	18.5
3	8.5	3.0	17.0	12.0	24.5	19.5	23.5	18.0	---	---	24.0	18.5
4	10.5	5.0	18.5	13.0	22.0	18.0	24.5	19.0	---	---	23.5	18.0
5	10.0	8.0	19.5	13.5	19.5	17.0	---	---	---	---	24.0	18.0
6	10.5	7.0	19.5	16.0	20.5	14.5	---	---	---	---	23.5	18.5
7	12.0	7.0	20.5	16.5	18.5	15.0	---	---	---	---	23.0	19.0
8	12.0	8.5	21.5	17.0	21.5	14.5	---	---	26.5	18.5	22.0	18.0
9	9.0	6.5	20.5	17.0	23.5	17.0	---	---	26.0	18.5	22.0	17.5
10	10.0	5.0	19.5	14.5	26.0	19.0	---	---	26.5	18.0	22.5	18.0
11	11.0	7.0	19.0	13.5	26.0	20.5	---	---	25.5	19.0	20.5	16.5
12	11.5	7.0	16.5	13.0	26.5	21.0	---	---	25.0	20.0	20.0	15.5
13	12.0	7.5	16.5	11.0	26.0	21.5	---	---	24.0	18.5	19.5	14.5
14	13.0	8.0	15.5	11.0	26.0	21.0	---	---	24.0	17.0	19.0	13.0
15	12.5	9.5	15.0	10.5	---	---	---	---	24.0	16.5	19.5	13.5
16	14.5	9.0	13.5	10.0	---	---	---	---	24.0	16.5	20.0	13.5
17	15.0	10.0	10.5	8.5	---	---	---	---	24.0	17.0	20.5	14.5
18	13.5	6.0	9.0	7.0	---	---	24.0	20.5	23.0	17.0	21.0	15.5
19	8.0	5.0	9.0	6.0	18.0	16.0	25.0	18.5	21.5	15.5	21.5	15.5
20	11.0	5.0	11.0	6.0	21.0	15.0	---	---	22.0	14.5	21.5	16.0
21	14.0	7.0	14.0	8.5	25.0	18.0	---	---	23.0	14.0	22.0	16.0
22	14.0	10.5	18.0	11.5	25.0	19.0	---	---	24.0	16.0	22.0	16.5
23	12.0	9.0	19.5	14.0	24.5	20.0	---	---	25.0	17.0	22.0	16.5
24	9.0	7.0	21.0	15.5	24.0	19.5	---	---	25.5	17.5	21.5	16.0
25	8.5	5.0	23.5	17.5	22.0	18.5	---	---	25.5	17.0	21.5	16.5
26	8.0	5.5	25.5	19.5	21.0	15.0	---	---	25.0	19.0	20.5	15.5
27	8.0	4.5	25.5	20.5	22.5	15.5	---	---	25.0	19.0	18.5	13.5
28	12.0	6.0	23.0	18.5	25.0	16.5	---	---	25.0	19.0	18.0	12.0
29	15.0	9.0	22.0	17.5	27.5	19.5	---	---	24.5	19.0	17.5	12.5
30	17.0	12.0	21.0	15.5	27.0	20.5	---	---	25.0	19.0	18.0	11.5
31	---	---	24.5	16.5	---	---	---	---	24.5	19.5	---	---
MONTH	17.0	3.0	25.5	6.0	27.5	14.5	---	---	---	---	24.5	11.5

11370500 SACRAMENTO RIVER AT KESWICK, CALIF.

LOCATION.--Lat 40°36'04", long 122°26'36", in SW¼NW¼ sec.28, T.32 N., R.5 W., Shasta County, at gaging station 0.4 mi (0.6 km) upstream from Middle Creek, 0.8 mi (1.3 km) downstream from Keswick Dam, 1.6 mi (2.6 km) downstream from Keswick, and 10 mi (16 km) downstream from Shasta Dam.

DRAINAGE AREA.--6,468 mi^2 (16,752 km^2), excluding Goose Lake basin.

PERIOD OF RECORD.--Chemical analyses: Water years 1951 and 1953 (partial-record station), December 1953 to current year. Published as "near Keswick" in 1951 and 1953; as "at Keswick Dam, near Keswick" in 1968-69.

REMARKS.--Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT., 1973												
11...	1005	7790	--	--	--	--	--	--	--	--	--	--
NOV.												
12...	1100	19500	--	--	7.9	5.5	5.4	.8	57	0	47	3.8
DEC.												
06...	1100	39700	--	--	--	--	--	--	--	--	--	--
JAN., 1974												
04...	1105	21600	--	--	--	--	--	--	--	--	--	--
FEB.												
14...	1015	17200	--	--	--	--	3.4	--	39	0	32	--
MAR.												
18...	1200	30800	--	--	--	--	--	--	--	--	--	--
APR.												
18...	1025	25400	1800	20	--	--	4.2	--	47	0	39	--
MAY												
21...	1300	11900	--	--	--	--	--	--	--	--	--	--
JUNE												
24...	1020	12800	--	--	--	--	--	--	--	--	--	--
JULY												
16...	1150	12200	--	--	--	--	--	--	--	--	--	--
AUG.												
21...	0845	13200	--	--	--	--	4.6	--	48	0	39	--
SEP.												
23...	1120	8380	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
OCT., 1973											
11...	--	.04	.10	.02	.01	--	--	--	--	--	--
NOV.											
12...	2.0	.18	.10	.06	.01	80	.11	4210	42	0	21
DEC.											
06...	--	.06	.20	.03	.01	--	--	--	--	--	--
JAN., 1974											
04...	--	.09	.00	.02	.00	--	--	--	--	--	--
FEB.											
14...	.9	.08	.60	.08	.00	--	--	--	32	0	--
MAR.											
18...	--	.09	.10	.04	.01	--	--	--	--	--	--
APR.											
18...	.9	.12	.10	.08	.01	--	--	--	37	0	--
MAY											
21...	--	.05	.00	.02	.00	--	--	--	--	--	--
JUNE											
24...	--	.04	.10	.02	.01	--	--	--	--	--	--
JULY											
16...	--	.06	.00	.02	.00	--	--	--	--	--	--
AUG.											
21...	1.9	.08	.10	.02	.01	--	--	--	38	0	--
SEP.											
23...	--	.04	.10	.02	.01	--	--	--	--	--	--

11370500 SACRAMENTO RIVER AT KESWICK, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT., 1973											
11...	--	109	7.2	10.5	2	11.4	--	--	--	--	--
NOV.											
12...	.4	105	7.0	12.0	55	10.5	0	--	--	--	--
DEC.											
06...	--	98	7.2	10.0	10	16.2	--	--	--	--	--
JAN., 1974											
04...	--	103	8.0	8.0	5	12.0	--	--	--	--	--
FEB.											
14...	.3	79	7.1	7.0	70	12.4	100	--	--	--	--
MAR.											
18...	--	93	7.1	8.0	25	14.9	--	--	--	--	--
APR.											
18...	.3	94	7.1	8.0	20	13.2	0	0	20	0	50
MAY											
21...	--	88	7.1	10.0	15	10.5	--	--	--	--	--
JUNE											
24...	--	106	7.1	10.0	15	12.6	--	--	--	--	--
JULY											
16...	--	90	7.2	10.0	10	10.7	--	--	--	--	--
AUG.											
21...	.3	92	7.1	10.0	9	10.4	0	--	--	--	--
SEP.											
23...	--	90	7.2	11.0	6	10.0	--	--	--	--	--

11372000 CLEAR CREEK NEAR IGO, CALIF.

LOCATION.--Lat 40°30'48", long 122°31'23" (unsurveyed), Shasta County, temperature recorder at gaging station on left bank, at highway bridge on Redding-Igo Road, 1.0 mi (1.6 km) northeast of Igo, 8.3 mi (13.4 km) southwest of Redding, and 10.4 mi (16.7 km) upstream from mouth.
DRAINAGE AREA.--228 mi^2 (590 km^2).
PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), October 1958 to September 1966. Water temperatures: March 1965 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 19.5°C July 1, 19; minimum, 5.0°C Jan. 4, 8, 10, Feb. 23.
Period of record:
Water temperatures: Maximum, 21.0°C July 1, 1967; minimum, 2.0°C sometime during period Jan. 3 to Feb. 1, 1968.
REMARKS.--Clock stopped June 1-5; range in temperature, 14.5°C to 17.5°C. No record June 9.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

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

11374000 COW CREEK NEAR MILLVILLE, CALIF.

LOCATION.--Lat 40°33'18", long 122°13'48", in NE¼SW¼ sec.8, T.31 N., R.3 W., Shasta County, temperature recorder on right bank 35 ft (11 m) downstream from bridge on State Highway 44, 400 ft (122 m) downstream from confluence of Little Cow and Oak Run Creeks, 2.6 mi (4.2 km) upstream from gaging station, 3.0 mi (4.8 km) west of Millville, and 5.5 mi (8.8 km) upstream from mouth.
DRAINAGE AREA.--425 mi² (1,100 km²), at gaging station.
PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1966.
Water temperatures: October 1965 to September 1971, October 1972 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 33.0°C Aug. 2; minimum recorded, 3.5°C Jan. 7, 8.
Period of record:
Water temperatures: Maximum (1966-67, 1968-71, 1972 to current year), 33.0°C June 27, 1973, Aug. 2, 1974; minimum, freezing point Dec. 14, 15, 1967, Jan. 10, 11, 1968.
REMARKS.--Prior to Sept. 14, 1973, at gaging station 2.6 mi (4.2 km) downstream. Temperature probe buried in streambed Nov. 13 to Dec. 19, Mar. 1 to June 17.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	17.5	15.0	12.0	---	---	7.5	5.0	10.0	9.0		
2	20.0	17.0	13.5	10.0	---	---	5.5	4.0	10.0	9.5		
3	19.0	14.5	11.5	8.5	---	---	6.5	5.0	10.0	9.5		
4	19.0	13.5	9.5	8.5	---	---	5.5	4.5	9.5	9.5		
5	18.0	13.5	9.0	8.5	---	---	5.5	5.0	9.5	9.5		
6	16.5	14.5	11.0	8.5	---	---	5.0	4.5	9.5	9.5		
7	17.0	13.5	12.5	11.0	---	---	6.0	3.5	9.5	9.0		
8	16.5	13.0	13.0	12.5	---	---	6.0	3.5	9.5	9.5		
9	18.0	13.5	13.0	12.5	---	---	6.5	4.0	10.0	9.5		
10	17.0	12.5	14.0	13.0	---	---	6.0	4.0	10.0	9.5		
11	18.0	13.0	13.5	13.0	---	---	6.0	5.0	10.0	9.5		
12	19.0	13.5	13.0	11.0	---	---	6.0	5.5	10.0	10.0		
13	19.5	14.5	---	---	---	---	8.0	5.5	10.0	9.5		
14	20.0	15.0	---	---	---	---	10.0	8.0	10.0	9.5		
15	20.5	15.5	---	---	---	---	10.5	9.5	10.0	10.0		
16	20.0	15.0	---	---	---	---	11.5	10.5	10.5	10.0		
17	20.0	15.0	---	---	---	---	11.5	10.5	10.5	10.5		
18	19.5	15.0	---	---	---	---	12.5	10.5	10.5	10.0		
19	18.5	15.0	---	---	---	---	11.5	10.5	11.0	8.0		
20	17.0	16.0	---	---	9.0	8.0	10.5	9.0	9.5	7.5		
21	17.5	15.5	---	---	8.5	8.5	9.0	7.0	9.0	8.5		
22	16.5	14.5	---	---	9.5	8.5	9.0	7.0	10.0	7.0		
23	14.0	12.5	---	---	9.5	9.0	10.0	7.5	10.0	7.5		
24	13.5	11.5	---	---	10.0	8.5	10.5	8.5	11.0	7.5		
25	15.0	10.5	---	---	10.5	9.5	10.0	8.0	11.5	9.0		
26	15.5	10.5	---	---	9.5	9.5	9.0	7.0	11.5	9.5		
27	15.5	11.0	---	---	10.0	9.0	8.5	6.5	10.0	9.0		
28	15.5	11.5	---	---	11.0	10.0	9.5	7.0	9.5	8.5		
29	14.5	10.5	---	---	12.0	10.0	9.5	7.0	---	---		
30	16.0	11.0	---	---	10.0	8.0	9.5	7.5	---	---		
31	16.5	12.0	---	---	8.5	8.0	9.0	8.5	---	---		
MONTH	21.5	10.5	---	---	---	---	12.5	3.5	11.5	7.0		

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1					---	---	30.5	25.0	32.5	26.5	27.0	21.0
2					---	---	27.5	22.0	33.0	27.0	27.0	21.0
3					---	---	29.0	22.0	32.5	27.0	27.0	21.5
4					---	---	30.5	24.0	32.5	26.5	27.5	21.5
5					---	---	31.0	24.5	29.0	26.0	27.5	21.0
6					---	---	29.0	24.0	30.5	24.0	27.0	21.0
7					---	---	26.0	23.0	31.0	25.5	27.0	21.0
8					---	---	23.0	19.0	29.5	25.0	26.5	21.0
9					---	---	24.5	18.5	29.0	23.5	27.0	21.0
10					---	---	24.5	19.0	30.0	23.0	26.5	21.5
11					---	---	27.0	19.5	30.5	24.5	23.5	19.5
12					---	---	28.5	21.0	29.5	24.0	24.5	19.0
13					---	---	29.0	22.0	29.0	23.5	24.0	19.0
14					---	---	29.5	23.0	28.5	23.0	24.0	18.0
15					---	---	29.0	24.0	28.0	22.0	25.0	18.5
16					---	---	28.5	23.0	28.0	21.5	25.0	19.0
17					---	---	29.5	23.0	28.0	21.5	25.5	19.0
18					25.5	19.5	30.5	24.0	27.0	21.5	25.5	19.5
19					22.5	19.5	31.0	25.0	25.5	20.5	26.0	19.5
20					26.0	17.5	30.0	24.5	26.0	19.5	26.0	20.0
21					29.0	20.5	31.0	24.0	27.5	20.0	25.5	20.0
22					29.5	22.5	31.0	24.5	28.0	21.5	25.5	20.5
23					28.5	23.0	31.5	24.5	29.5	22.5	25.5	20.0
24					27.0	21.0	32.0	25.0	29.5	23.0	25.0	19.5
25					26.5	20.5	32.0	26.0	29.0	23.0	24.5	19.5
26					27.0	20.0	32.0	27.0	28.5	23.0	24.0	19.0
27					28.5	21.0	32.0	26.5	28.0	22.0	22.5	18.5
28					28.5	22.5	32.5	26.0	27.5	22.0	22.0	16.5
29					30.5	23.5	32.5	26.0	27.0	22.0	22.5	17.0
30					31.0	25.5	32.5	26.0	26.5	22.0	22.5	17.5
31					---	---	32.0	27.0	27.5	22.0	---	---
MONTH					---	---	32.5	18.5	33.0	19.5	27.5	16.5

11375810 COTTONWOOD CREEK NEAR OLINDA, CALIF.

LOCATION.--Lat 40°23'06", long 122°28'31", in SE¼NW¼ sec.7, T.29 N., R.5 W., Shasta County, temperature recorder at gaging station on left bank, 1.0 mi (1.6 km) downstream from Dutch Gulch, and 5.5 mi (8.8 km) southwest of Olinda.
DRAINAGE AREA.--395 mi^2 (1,023 km^2).
PERIOD OF RECORD.--Chemical analyses: Water year 1971 (partial-record station).
Water temperatures: February 1973 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 23.5°C on several days during August and September; minimum recorded, 3.0°C Nov. 29.
Period of record:
Water temperatures: Maximum, 29.5°C June 27, 28, 1973; minimum recorded, 3.0°C Nov. 29, 1973.
REMARKS.--Recorder malfunction Dec. 1-27, Jan. 1-5, 8-20.

TEMPERATURE (DEG. C) OF WATER . WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	17.5	16.5	15.5	---	---	---	---	7.0	6.0	7.0	6.0
2	19.5	18.5	15.5	12.5	---	---	---	---	7.0	6.0	7.0	6.0
3	19.0	17.0	15.0	10.5	---	---	---	---	6.5	6.0	7.0	6.0
4	19.0	16.0	13.5	11.5	---	---	---	---	6.5	5.5	7.0	6.5
5	19.0	16.0	13.0	11.0	---	---	---	---	6.5	6.0	7.0	6.5
6	18.5	16.0	11.0	9.0	---	---	6.0	5.0	6.5	5.5	7.0	5.5
7	18.0	14.5	9.5	8.0	---	---	5.5	5.0	6.0	5.5	7.0	5.5
8	17.5	14.5	12.5	8.0	---	---	---	---	6.0	6.0	7.5	6.5
9	18.0	14.5	12.5	10.0	---	---	---	---	6.5	6.0	7.0	6.5
10	17.5	14.0	10.5	9.5	---	---	---	---	6.5	6.0	7.0	6.0
11	18.0	14.0	10.0	9.0	---	---	---	---	6.0	5.5	6.5	5.5
12	18.0	14.0	14.0	9.5	---	---	---	---	6.0	5.5	7.0	5.5
13	18.0	14.0	13.5	12.0	---	---	---	---	6.5	5.5	7.5	6.5
14	18.5	15.5	11.5	9.5	---	---	---	---	6.5	6.0	7.5	7.0
15	18.5	15.5	10.5	9.5	---	---	---	---	6.5	6.0	8.0	7.0
16	18.5	15.0	10.5	9.5	---	---	---	---	6.0	5.5	8.0	8.0
17	18.5	15.5	10.5	9.5	---	---	---	---	6.0	5.0	8.5	8.0
18	18.5	15.0	13.0	7.0	---	---	---	---	6.0	5.0	8.5	8.5
19	18.5	15.0	13.0	10.5	---	---	---	---	6.5	5.0	9.0	8.5
20	18.5	18.0	12.0	10.5	---	---	---	---	6.5	5.5	9.0	8.5
21	18.0	16.5	11.0	7.0	---	---	7.5	7.0	6.0	5.0	9.0	8.5
22	17.5	16.0	10.5	9.5	---	---	7.5	6.0	6.0	5.5	9.0	9.0
23	16.5	13.5	9.5	3.5	---	---	7.0	6.0	6.0	5.5	9.5	9.0
24	15.5	11.5	12.5	4.0	---	---	7.5	6.5	6.0	5.5	9.5	9.5
25	15.5	12.5	12.5	10.0	---	---	7.5	7.0	6.0	5.5	9.5	9.5
26	15.5	12.5	12.5	8.5	---	---	7.0	6.0	6.0	5.5	9.5	9.0
27	16.0	12.5	10.0	8.5	---	---	6.5	6.0	6.5	5.5	9.5	9.0
28	16.0	12.5	9.0	7.5	10.5	10.0	6.5	6.0	6.5	5.0	9.5	9.0
29	16.0	15.0	8.5	3.0	11.0	10.0	7.0	6.0	---	---	9.5	9.0
30	16.0	14.0	9.5	8.0	11.0	10.0	7.0	6.0	---	---	9.5	8.5
31	16.5	14.0	---	---	10.0	9.5	7.0	6.0	---	---	9.0	6.5
MONTH	20.0	11.5	16.5	3.0	---	---	---	---	7.0	5.0	9.5	5.5

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

11376000 COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.

LOCATION.--Lat 40°23'14", long 122°14'15", in NE¼NE¼ sec.7, T.29 N., R.3 W., Shasta County, at gaging station on left bank, 2.2 mi (3.5 km) east of Cottonwood, and 2.5 mi (4.0 km) upstream from mouth.

DRAINAGE AREA.--927 mi^2 (2,401 km^2).

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to current year.
Water temperatures: October 1962 to September 1967.
Sediment records: Water years 1957-62 (partial-record station), October 1962 to September 1967.

REMARKS.--Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV.										
12...	0935	5210	--	--	17	6.9	6.2	1.4	75	0
APR.										
18...	0825	1390	3000	60	--	--	8.2	--	128	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
NOV.										
12...	62	12	4.7	.52	--	--	--	102	.14	1440
APR.										
18...	105	--	3.3	.11	.10	.17	.01	--	--	--

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.									
12...	71	9	16	.3	0	--	--	--	--
APR.									
18...	111	6	--	.3	0	0	10	0	10

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.							
11...	0845	145	212	7.1	14.0	2	10.3
NOV.							
12...	0935	5210	163	8.3	11.0	260	12.3
DEC.							
06...	0920	1450	206	8.0	9.5	10	13.0
JAN.							
04...	0945	2140	223	7.4	3.5	15	13.9
FEB.							
14...	0800	--	272	7.5	7.0	10	12.4
MAR.							
18...	0925	2040	238	7.9	12.0	45	11.9
APR.							
18...	0825	1390	253	7.6	12.5	25	11.6
MAY							
21...	0925	614	248	8.1	16.0	4	9.4
JUNE							
24...	0905	266	264	7.6	22.5	1	10.0
JULY							
16...	0930	207	239	7.6	23.0	2	9.5
AUG.							
21...	0800	96	213	7.2	19.0	2	8.2
SEP.							
23...	0905	66	203	7.2	19.0	2	9.2

11376550 BATTLE CREEK BELOW COLEMAN FISH HATCHERY, NEAR COTTONWOOD, CALIF.

LOCATION.--Lat 40°23'54", long 122°08'43", in SW¼NE¼ sec.1, T.29 N., R.3 W., Shasta County, temperature recorder at Coleman Fish Hatchery in Pond 28, 800 ft (244 m) north of gaging station, 3.7 mi (6.0 km) downstream from Spring Branch, 5.7 mi (9.2 km) upstream from mouth, and 7.0 mi (11.3 km) east of Cottonwood.
DRAINAGE AREA.--357 mi^2 (925 km^2).
PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1966.
Water temperatures: December 1965 to current year.
Sediment records: Water years 1962-70 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 20.0°C July 30, Aug. 2; minimum, 4.5°C on several days during January and March.
Period of record:
Water temperatures: Maximum, 23.0°C July 20, 1971; minimum, 2.0°C Dec. 23, 24, 1968.
REMARKS.--Temperature record furnished by U.S. Fish and Wildlife Service. No record Dec. 24 to Jan. 1.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.0	13.5	12.0	15.5	13.5	18.5	18.0	19.5	18.5	16.5	15.5
2	8.5	6.5	14.0	12.0	16.0	14.0	18.5	17.0	20.0	19.0	16.5	15.5
3	9.0	7.0	14.0	11.5	16.0	14.5	18.0	16.5	19.5	19.0	16.5	15.5
4	10.0	8.0	14.0	11.5	15.0	14.0	18.5	17.0	19.5	18.5	16.5	15.5
5	10.0	9.5	14.5	11.5	15.5	13.5	18.5	17.0	19.5	18.5	16.5	15.5
6	10.5	9.0	14.5	13.0	15.5	14.0	18.5	17.0	19.0	18.0	16.5	15.5
7	10.0	9.0	14.5	13.0	15.5	13.5	18.0	16.5	19.0	18.0	16.5	15.5
8	10.0	9.5	15.0	13.5	15.0	13.0	16.5	15.0	19.0	18.0	16.5	15.5
9	9.5	8.5	14.0	13.5	16.0	14.0	15.0	14.5	18.5	18.0	16.5	15.0
10	10.5	8.0	13.5	11.5	16.5	14.5	15.0	14.0	18.5	17.0	16.5	15.5
11	12.0	9.0	14.0	12.0	16.5	15.0	15.5	14.5	18.5	18.0	16.5	15.5
12	11.5	10.0	13.5	12.0	16.0	15.0	16.0	15.0	18.5	17.0	16.0	14.5
13	11.5	9.0	13.0	11.0	16.5	15.0	16.5	15.5	18.5	17.0	15.5	14.5
14	11.5	9.5	13.0	11.0	17.0	15.0	17.0	16.0	18.0	16.5	15.5	14.5
15	13.0	10.0	13.0	11.5	16.5	15.5	17.0	16.5	17.0	16.0	15.0	14.0
16	13.0	10.0	11.5	10.0	16.0	13.5	16.5	16.0	17.0	16.0	15.0	14.0
17	13.0	10.5	11.0	9.5	15.0	13.0	17.0	16.0	17.0	16.0	15.0	14.0
18	12.0	9.0	10.0	8.5	15.5	14.0	18.0	16.5	17.0	16.0	15.5	14.0
19	11.0	8.5	11.0	8.5	15.5	14.0	18.5	17.0	16.5	15.5	15.5	14.5
20	12.0	9.5	12.0	9.5	15.5	13.0	18.5	17.0	16.0	15.0	15.5	14.5
21	13.0	10.0	13.0	10.5	17.0	15.0	18.5	17.0	16.5	15.5	15.5	14.5
22	12.0	11.0	14.0	11.0	18.0	16.0	18.5	17.0	17.0	15.5	15.5	15.0
23	12.0	9.0	14.5	12.0	18.0	16.0	18.5	17.0	18.0	16.0	15.5	14.5
24	9.5	8.5	15.0	13.0	16.5	15.5	18.5	18.0	18.0	16.5	15.5	14.5
25	11.0	8.0	16.0	13.5	16.5	15.0	19.0	18.0	18.0	16.5	15.0	14.5
26	10.5	9.0	16.5	14.5	16.0	14.5	19.5	18.5	18.0	16.5	15.0	14.0
27	10.0	9.0	16.0	14.5	16.5	15.0	19.0	19.0	17.0	16.0	15.0	14.0
28	12.0	10.5	15.0	14.0	18.0	16.0	19.5	18.5	17.0	15.5	14.5	13.5
29	13.0	11.0	15.0	13.5	19.0	16.5	19.0	18.5	17.0	16.0	14.5	13.5
30	13.5	11.5	14.5	13.0	18.5	18.0	20.0	18.0	17.0	16.0	14.5	13.5
31	---	---	15.0	13.0	---	---	19.0	18.5	17.0	16.0	---	---
MONTH	13.5	6.5	16.5	8.5	19.0	13.0	20.0	14.0	20.0	15.0	16.5	13.5

11377100 SACRAMENTO RIVER ABOVE BEND BRIDGE, NEAR RED BLUFF, CALIF.

LOCATION.--Lat 40°17'19", long 122°11'08", in NW¼NE¼ sec.15, T.28 N., R.3 W., Tehama County, temperature recorder at gaging station on left bank, 2.7 mi (4.3 km) upstream from Bend Bridge, and 8.1 mi (13.0 km) northeast of Red Bluff.

DRAINAGE AREA.--8,900 mi^2 (23,051 km^2), excluding Goose Lake basin.

PERIOD OF RECORD.--Water temperatures: March 1970 to current year.

EXTREMES.--Current year:
Water temperatures: Minimum, 7.0°C Feb. 23.
Period of record:
Water temperatures: Maximum (1970-73), 15.5°C on several days in 1970 and 1973; minimum, 4.0°C Dec. 17, 1972, Jan. 9, 10, 1973.

REMARKS.--Recorder malfunction Mar. 19 to Apr. 1, Apr. 12 to July 9, 20-31.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---					---	---	14.0	3.0	13.5	12.0
2	9.0	8.0					---	---	14.0	12.5	13.0	12.0
3	9.0	8.0					---	---	14.0	12.5	13.5	12.0
4	9.5	8.5					---	---	14.0	12.5	13.5	12.0
5	9.5	8.5					---	---	14.0	12.0	13.5	12.0
6	9.5	8.0					---	---	13.5	12.0	13.5	12.0
7	9.5	8.5					---	---	14.0	12.5	13.5	12.0
8	9.5	8.5					---	---	13.5	12.0	13.0	12.0
9	9.0	8.5					---	---	13.5	12.0	13.0	12.0
10	9.5	8.5					13.0	12.0	13.5	12.0	13.5	12.0
11	9.5	9.0					13.5	12.0	13.5	12.0	13.5	12.0
12	---	---					13.5	12.0	13.5	12.0	13.0	12.0
13	---	---					13.5	12.0	13.5	12.0	13.0	12.0
14	---	---					13.5	12.5	13.5	12.0	13.0	11.5
15	---	---					13.5	12.5	13.0	12.0	13.0	11.5
16	---	---					13.5	12.0	13.0	11.5	13.0	12.0
17	---	---					13.5	12.0	13.0	12.0	13.0	12.0
18	---	---					14.0	12.0	13.0	12.0	13.0	12.0
19	---	---					14.0	12.5	13.0	12.0	13.5	12.5
20	---	---					---	---	13.0	12.0	13.5	12.5
21	---	---					---	---	13.0	12.0	13.5	12.5
22	---	---					---	---	13.0	12.0	13.5	12.5
23	---	---					---	---	13.5	12.0	13.5	12.5
24	---	---					---	---	13.5	12.0	13.0	12.5
25	---	---					---	---	13.5	12.0	13.0	12.5
26	---	---					---	---	13.5	12.5	13.0	12.5
27	---	---					---	---	13.5	12.0	13.0	12.5
28	---	---					---	---	13.5	12.0	12.5	12.0
29	---	---					---	---	13.5	12.0	12.5	12.0
30	---	---					---	---	13.0	12.0	12.5	12.0
31	---	---					---	---	13.5	12.0	---	---
MONTH	---	---					---	---	14.0	3.0	13.5	11.5

11382000 THOMES CREEK AT PASKENTA, CALIF.

LOCATION.--Lat 39°52'57", long 122°33'03", in SW¼NW¼ sec.4, T.23 N., R.6 W., Tehama County, at gaging station on left bank, 0.2 mi (0.3 km) upstream from Digger Creek, and 0.3 mi (0.5 km) upstream from highway bridge at Paskenta.

DRAINAGE AREA.--194 mi^2 (502 km^2).

PERIOD OF RECORD.--Chemical analyses (revised): October 1958 to current year.
Water temperatures: October 1961 to current year.
Sediment records: October 1962 to September 1973.

EXTREMES.--Current year:
Water temperatures: Maximum, 36.5°C Aug. 2, 4; minimum, freezing point Jan. 3.
Period of record:
Water temperatures: Maximum, 36.5°C Aug. 2, 4, 1974; minimum, freezing point on several days during most years.

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	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)
NOV. 19...	0925	680	17	3.5	3.4	.8	61	0	50	9.4	1.9
AUG. 20...	0900	12	--	--	11	--	138	0	113	--	14

DATE	TOTAL NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED BORON (B) (UG/L)
NOV. 19...	.07	.02	79	.11	145	57	7	11	.2	0
AUG. 20...	.05	.00	--	--	--	160	47	--	.4	100

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT. 10...	0820	23	413	8.0	13.0	1	12.5
NOV. 19...	0925	680	128	7.5	5.0	30	15.0
DEC. 14...	1000	780	135	7.8	6.5	20	13.3
JAN. 09...	1020	385	188	7.6	2.0	9	14.6
FEB. 13...	0845	270	237	8.0	4.0	40	13.8
MAR. 19...	0915	822	159	7.7	7.5	120	13.3
APR. 22...	0945	546	171	7.8	11.5	55	11.4
MAY 20...	0930	251	195	8.1	11.0	10	10.2
JUNE 25...	1030	81	259	8.2	22.0	1	10.1
JULY 18...	0940	44	308	8.2	24.5	1	9.4
AUG. 20...	0900	12	354	8.2	20.5	0	10.1
SEP. 24...	0900	6.0	397	8.1	20.0	1	9.7

11382000 THOMES CREEK AT PASKENTA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.0	15.0	14.5	8.0	7.0	4.5	4.0	1.0	9.0	5.0	8.0	4.0
2	21.5	14.0	11.5	6.0	7.0	4.0	3.0	0.5	9.5	3.0	8.0	4.0
3	21.0	12.0	11.5	5.0	8.0	4.5	2.0	0.0	9.0	3.0	8.5	3.0
4	22.0	11.5	8.5	4.5	6.0	5.0	4.0	0.5	9.5	3.5	10.0	3.0
5	21.5	11.0	8.5	5.5	8.5	5.5	4.0	1.5	7.5	2.5	9.5	4.0
6	14.0	13.0	7.0	5.5	8.5	7.0	3.5	2.0	8.0	1.5	7.0	6.0
7	17.5	12.5	8.5	7.5	8.5	8.0	6.0	2.5	10.0	2.5	6.5	3.0
8	15.0	11.5	11.0	8.0	9.5	6.0	5.5	1.0	10.0	3.0	9.5	2.5
9	18.5	10.5	10.0	9.5	9.5	6.0	5.0	0.5	9.5	2.5	9.5	2.5
10	18.5	10.0	10.5	10.0	8.0	6.5	4.5	0.5	10.0	2.5	8.0	6.0
11	19.5	11.0	11.5	10.5	9.5	6.5	3.0	1.0	9.5	2.5	8.0	6.5
12	20.5	11.5	11.0	8.0	7.0	6.0	4.5	2.0	6.0	3.0	11.0	5.5
13	21.5	12.5	8.0	6.0	7.5	6.5	5.5	4.0	7.0	1.0	12.0	4.5
14	22.0	13.0	8.0	6.0	8.5	6.0	6.5	5.0	10.0	3.0	13.5	7.0
15	22.5	13.5	9.0	7.5	7.5	5.5	8.0	6.5	9.5	3.5	12.0	7.5
16	23.0	14.0	9.5	8.0	7.5	5.5	8.5	8.0	10.0	3.0	11.0	8.0
17	22.5	13.5	8.0	7.0	8.5	6.0	8.5	7.0	8.5	2.0	13.0	8.0
18	21.5	13.5	8.5	5.0	8.0	5.0	9.5	8.0	5.5	4.5	13.5	7.5
19	20.0	14.0	7.0	4.0	7.5	4.5	9.0	7.0	9.0	2.5	13.5	5.5
20	18.0	14.5	7.5	5.0	7.0	6.5	8.5	5.0	6.0	2.0	13.5	6.5
21	17.5	14.0	8.0	5.0	7.0	6.0	6.5	4.0	10.0	3.5	13.0	6.5
22	14.0	10.0	7.5	5.0	7.0	5.5	8.5	4.5	9.5	2.0	13.5	7.5
23	12.5	8.0	7.5	4.5	6.0	5.0	8.0	5.0	10.0	1.5	14.0	7.5
24	12.5	7.0	9.0	5.0	8.0	5.0	9.5	5.5	10.5	2.5	10.0	7.5
25	13.5	6.5	8.0	5.0	7.5	6.5	8.5	4.5	10.0	4.0	9.5	8.5
26	14.5	5.5	7.0	4.0	8.0	6.0	7.5	3.0	10.5	3.5	10.5	7.5
27	15.5	7.0	7.0	5.5	7.5	6.5	8.0	2.5	6.0	2.5	8.5	6.5
28	15.0	7.5	8.5	7.0	8.0	7.0	8.5	3.5	7.5	4.5	10.5	5.5
29	13.0	7.0	7.5	7.0	9.0	6.0	8.5	3.5	---	---	8.5	7.5
30	16.0	6.5	8.0	7.0	6.5	4.5	7.0	3.5	---	---	9.5	6.0
31	16.5	9.5	---	---	5.5	4.0	6.5	5.5	---	---	7.0	5.0
MONTH	24.0	5.5	14.5	4.0	9.5	4.0	9.5	0.0	10.5	1.0	14.0	2.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	6.5	17.5	9.5	23.5	12.5	31.5	20.0	36.0	22.0	31.5	17.5
2	9.5	5.5	17.0	8.5	24.0	13.5	29.0	16.5	36.5	22.0	32.0	18.0
3	11.0	4.5	17.5	9.0	23.0	14.0	31.0	16.5	35.0	22.0	32.5	18.0
4	12.5	6.0	18.0	8.5	22.0	13.5	33.0	19.5	36.5	23.0	32.5	18.0
5	11.0	7.5	18.5	8.0	24.0	14.0	32.5	20.0	27.0	23.5	33.0	18.5
6	13.5	6.5	18.5	9.5	24.0	14.0	31.0	19.5	34.0	19.5	32.0	19.0
7	13.0	6.5	18.5	10.0	22.0	12.5	28.0	18.0	33.5	19.5	32.0	19.0
8	11.0	7.5	19.0	10.5	23.0	12.0	18.0	16.0	33.0	20.0	31.5	18.0
9	10.0	6.5	16.5	9.0	25.5	13.0	20.5	15.5	31.5	18.5	32.5	18.0
10	13.5	5.0	17.0	8.5	27.5	14.5	22.5	13.5	33.5	18.0	31.5	19.5
11	16.0	7.5	18.0	8.5	27.0	16.0	27.0	13.5	33.5	19.5	27.5	16.5
12	15.0	7.5	16.5	9.0	27.0	16.5	29.5	10.0	32.5	19.0	28.5	15.5
13	15.5	7.0	16.0	8.0	28.0	16.0	31.5	17.0	31.0	18.0	28.0	15.5
14	15.5	7.5	18.0	8.5	28.0	16.5	32.0	18.5	31.5	17.0	29.0	14.5
15	16.0	8.0	16.5	8.0	27.5	16.0	30.5	17.5	31.0	17.0	30.5	15.0
16	17.0	8.0	15.0	6.0	24.0	15.0	31.0	18.0	31.0	16.5	30.5	15.0
17	14.5	8.0	10.5	5.0	26.5	14.5	31.5	18.0	31.5	17.0	31.0	15.5
18	10.5	8.5	14.0	4.5	25.5	14.5	32.5	20.0	31.0	16.5	32.0	17.0
19	15.0	6.0	16.5	4.5	17.0	13.0	33.5	21.0	29.0	15.5	32.0	17.5
20	16.5	7.5	18.5	7.0	27.0	12.5	33.5	21.0	29.5	15.5	32.0	18.0
21	17.5	8.5	20.0	8.5	29.0	15.0	34.0	21.0	32.0	15.5	31.5	18.0
22	16.5	9.5	21.5	10.0	29.0	16.5	34.0	20.5	33.0	17.5	30.5	17.5
23	11.5	8.0	21.0	11.5	29.5	17.0	34.0	20.0	33.5	19.0	31.0	18.5
24	9.5	6.0	22.5	11.5	29.0	17.0	35.5	20.5	33.5	19.5	31.0	17.0
25	9.5	4.5	24.0	13.0	27.0	15.5	36.0	21.5	32.5	19.5	30.5	17.5
26	11.5	6.5	24.5	14.5	28.0	14.0	35.5	23.0	32.0	18.5	29.5	17.5
27	16.0	5.5	23.5	14.0	30.0	15.5	35.5	23.0	32.0	18.5	26.5	15.5
28	17.5	8.0	22.0	13.0	31.0	17.0	35.5	22.5	31.0	18.0	27.0	14.0
29	19.0	9.0	21.0	11.5	33.0	18.0	36.0	21.5	30.0	19.0	26.5	14.5
30	18.5	9.0	21.5	11.0	32.0	20.5	35.5	22.5	31.5	18.0	27.5	15.5
31	---	---	23.0	11.5	---	---	34.0	21.5	31.5	18.5	---	---
MONTH	19.0	4.5	24.5	4.5	33.0	12.0	36.0	10.0	36.5	15.5	33.0	14.0

11384600 LITTLE STONY CREEK ABOVE EAST PARK RESERVOIR, NEAR LODOGA, CALIF.

LOCATION.--Lat 39°17'48", long 122°32'22", in NE¼SW¼ sec.28, T.17 N., R.6 W., Colusa County, temperature recorder at gaging station on left bank, 1.1 mi (1.8 km) upstream from county bridge on Lodoga-Stonyford Road, 1.4 mi (2.3 km) downstream from Frenzel Creek, and 2.8 mi (4.5 km) southwest of Lodoga.

DRAINAGE AREA.--45.6 mi^2 (118.1 km^2).

PERIOD OF RECORD.--Water temperatures: May 1967 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum recorded, 31.5°C July 26-28; minimum, 0.5°C Jan. 3.
Period of record:
Water temperatures: Maximum, 33.5°C July 15, 1972; minimum, freezing point Dec. 21-23, 1968.

REMARKS.--No record Oct. 1, 2. Probe out of water July 31 to Sept. 30.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	15.0	11.0	10.0	8.5	7.0	4.0	9.0	7.0	8.5	8.0
2	---	---	12.5	8.0	8.5	7.5	4.5	3.0	8.0	5.0	8.5	7.0
3	18.0	11.0	10.5	6.0	9.0	7.0	4.5	0.5	8.5	5.0	8.0	6.0
4	18.0	11.0	9.5	5.5	9.0	7.0	5.5	1.5	9.5	5.0	9.5	5.5
5	18.0	11.5	10.0	8.0	9.5	8.0	6.0	3.0	7.0	5.0	10.5	6.0
6	15.0	12.5	12.5	10.0	11.0	9.0	5.0	4.5	7.0	3.5	10.0	7.0
7	17.0	13.5	14.0	12.5	11.0	9.5	6.5	4.5	9.0	4.5	9.0	6.5
8	16.5	13.0	14.0	12.0	10.5	8.0	5.0	3.5	9.0	5.5	9.0	5.0
9	18.0	13.0	13.5	12.5	9.0	7.0	4.5	2.5	9.0	5.0	9.5	4.5
10	17.0	10.5	13.5	12.5	9.0	7.0	4.5	2.5	9.5	5.0	9.0	7.0
11	17.0	11.0	13.5	12.5	9.0	8.0	5.0	4.0	9.0	5.0	9.5	8.0
12	17.5	11.5	13.0	10.5	9.0	8.0	6.0	4.0	8.5	6.5	9.5	6.5
13	18.5	12.5	10.5	9.5	9.0	8.0	8.5	6.0	8.0	4.0	10.0	6.0
14	18.5	13.0	11.5	9.0	8.5	7.0	9.0	7.0	9.5	5.5	11.0	6.5
15	19.0	13.0	11.0	10.0	8.5	6.5	10.5	9.0	10.0	5.5	10.5	7.0
16	19.0	13.0	11.5	10.5	9.5	7.0	10.5	10.0	10.0	7.0	10.5	8.0
17	18.5	12.5	10.5	9.5	9.5	8.0	10.0	9.0	8.5	4.0	12.0	7.0
18	18.0	12.0	10.0	8.0	8.0	6.5	11.0	9.5	8.0	6.5	13.5	8.5
19	17.5	13.0	9.0	7.0	8.0	6.0	10.5	9.5	9.0	7.0	13.5	7.5
20	17.5	13.0	9.5	7.5	9.0	8.0	10.0	9.0	7.5	4.5	13.5	7.5
21	18.0	15.0	9.0	7.5	9.0	8.5	9.0	7.0	9.0	5.5	13.5	7.5
22	17.5	13.5	8.5	8.0	9.0	7.5	9.0	6.5	9.0	5.0	14.0	9.0
23	14.0	11.5	9.0	7.5	9.0	7.5	9.0	6.5	9.0	4.0	14.5	9.0
24	14.5	10.0	9.0	8.0	9.5	7.5	9.5	7.0	10.0	4.5	14.0	9.0
25	14.0	10.0	9.5	7.5	10.0	9.0	9.0	6.5	10.0	5.5	12.0	10.0
26	14.0	9.0	8.5	6.5	10.0	9.0	7.5	6.0	10.0	8.0	12.0	10.0
27	14.5	9.0	9.5	8.0	10.0	9.5	8.5	5.0	8.0	4.5	11.0	9.0
28	15.0	10.0	11.5	9.0	10.5	10.0	8.0	5.5	8.5	7.5	11.0	8.0
29	14.0	9.5	11.0	10.0	11.0	9.0	8.0	5.0	---	---	10.5	9.5
30	16.0	10.0	11.0	10.0	9.0	6.5	8.0	6.0	---	---	10.5	9.0
31	16.0	11.0	---	---	7.5	6.5	8.5	7.0	---	---	9.0	7.5
MONTH	19.0	9.0	15.0	5.5	11.0	6.0	11.0	0.5	10.0	3.5	14.5	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	9.0	20.0	11.5	25.5	16.5	30.5	21.0	---	---	---	---
2	10.0	7.0	20.0	13.0	26.0	17.5	28.5	18.0	---	---	---	---
3	11.5	6.0	20.0	13.0	25.0	18.0	29.0	17.0	---	---	---	---
4	12.5	7.5	20.0	12.0	25.0	17.5	30.0	18.5	---	---	---	---
5	11.5	9.5	21.0	12.0	25.5	18.5	29.0	19.5	---	---	---	---
6	13.0	7.0	22.0	13.5	25.5	18.0	29.0	19.5	---	---	---	---
7	12.5	7.5	23.0	14.5	24.5	17.0	27.0	19.0	---	---	---	---
8	13.0	8.5	23.5	16.0	24.5	16.0	21.0	18.5	---	---	---	---
9	11.0	7.5	22.0	14.5	26.0	16.0	24.0	17.5	---	---	---	---
10	13.0	6.5	21.5	13.5	27.5	17.5	21.5	16.0	---	---	---	---
11	15.0	8.0	21.5	13.5	28.0	18.5	25.0	15.5	---	---	---	---
12	14.0	8.5	19.5	13.5	27.0	17.5	27.5	17.0	---	---	---	---
13	14.5	7.5	20.0	12.5	27.5	17.5	27.0	18.0	---	---	---	---
14	14.5	8.0	21.0	13.0	27.0	16.5	28.5	18.5	---	---	---	---
15	15.0	8.0	18.5	12.0	26.5	17.5	28.0	17.5	---	---	---	---
16	16.0	8.5	18.0	10.5	25.5	17.0	28.5	18.0	---	---	---	---
17	15.5	8.5	14.0	10.0	25.0	16.5	29.0	19.5	---	---	---	---
18	11.0	9.0	15.0	9.0	24.0	16.5	30.0	20.0	---	---	---	---
19	15.0	7.5	17.0	9.0	19.0	16.5	31.0	21.0	---	---	---	---
20	15.0	8.0	18.5	10.5	25.5	15.0	31.0	21.0	---	---	---	---
21	17.0	9.0	20.5	11.5	27.5	17.0	31.0	21.0	---	---	---	---
22	17.0	10.0	21.0	13.0	28.0	17.5	31.0	21.0	---	---	---	---
23	13.0	10.0	22.0	14.0	28.0	17.0	31.0	20.5	---	---	---	---
24	11.0	8.0	23.0	14.0	27.5	17.0	31.5	20.5	---	---	---	---
25	13.0	6.5	24.5	16.0	26.5	16.5	30.5	22.0	---	---	---	---
26	12.5	8.5	26.0	17.0	26.5	16.0	31.5	22.5	---	---	---	---
27	16.0	7.5	25.0	18.0	27.5	16.5	31.5	23.5	---	---	---	---
28	17.0	9.0	24.5	17.0	29.0	18.0	31.5	22.0	---	---	---	---
29	18.0	10.0	23.5	15.5	30.0	18.5	31.0	21.0	---	---	---	---
30	19.0	10.0	24.0	15.0	30.0	20.0	30.5	21.5	---	---	---	---
31	---	---	24.5	15.5	---	---	---	---	---	---	---	---
MONTH	19.0	6.0	26.0	9.0	30.0	15.0	31.5	15.5	---	---	---	---

11387000 STONY CREEK NEAR FRUTO, CALIF.

LOCATION.--Lat 39°40'18", long 122°31'01", in SW¼SE¼ sec.15, T.21 N., R.6 W., Glenn County, temperature recorder at gaging station on right bank, 0.3 mi (0.5 km) downstream from Grindstone Creek, and 6.5 mi (10.5 km) northwest of Fruto.

DRAINAGE AREA.--597 mi^2 (1,546 km^2).

PERIOD OF RECORD.--Chemical analyses: March 1964 to September 1966.
Water temperatures: December 1970 to current year.

EXTREMES.--Period of record:
Water temperatures (1971-73): Maximum, 33.5°C Aug. 9, 1972; minimum, freezing point on several days in 1972 and 1973.

REMARKS.--Temperature recorder malfunction Dec. 6 to Jan. 8, Apr. 9-30, June 17 to July 1, Sept. 4-30.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.5	16.5	15.5	13.5	10.5	9.5	---	---	8.5	7.5	10.0	8.5
2	21.0	15.5	14.5	12.0	9.5	8.5	---	---	8.5	6.5	9.5	8.5
3	20.0	13.0	13.5	11.0	9.5	8.0	---	---	8.0	6.5	9.5	8.0
4	20.5	13.0	12.5	10.5	9.5	8.0	---	---	8.5	7.5	9.5	8.5
5	20.5	13.0	12.0	10.5	8.5	7.5	---	---	8.0	7.5	9.5	8.5
6	17.0	14.0	11.5	10.5	---	---	---	---	7.5	7.0	9.5	9.0
7	19.0	15.5	12.0	11.5	---	---	---	---	8.0	7.0	9.5	9.0
8	17.5	14.0	13.0	11.5	---	---	---	---	8.5	7.5	9.5	8.0
9	19.0	13.5	12.5	12.5	---	---	6.5	5.5	8.5	7.5	9.5	8.0
10	19.5	12.0	13.5	12.0	---	---	6.0	5.5	8.5	8.0	9.5	9.0
11	20.0	14.0	13.0	12.5	---	---	6.0	6.0	9.0	8.0	10.0	9.5
12	20.0	14.0	13.0	11.0	---	---	6.5	6.0	9.0	8.5	10.0	9.5
13	20.0	14.0	11.5	10.0	---	---	7.0	6.0	8.5	8.0	10.0	9.5
14	20.0	14.5	10.5	9.5	---	---	7.0	6.5	9.0	8.0	10.5	10.0
15	20.5	14.5	10.5	10.5	---	---	7.5	6.5	9.0	8.0	11.0	10.5
16	21.5	14.5	11.0	10.5	---	---	8.0	7.5	9.5	8.5	11.5	11.0
17	22.0	14.5	11.0	10.5	---	---	9.0	8.0	9.5	8.0	12.5	11.5
18	21.5	15.0	10.5	10.5	---	---	9.5	9.0	9.0	8.5	12.5	12.0
19	21.0	15.5	10.5	10.0	---	---	9.5	9.0	9.0	8.5	12.5	11.0
20	19.5	16.0	10.5	10.0	---	---	9.5	8.5	9.0	8.0	11.5	11.5
21	20.0	15.5	10.0	9.0	---	---	9.0	7.5	8.5	8.0	12.0	11.5
22	19.5	14.0	10.0	9.5	---	---	9.0	8.0	8.5	8.0	12.5	12.0
23	17.5	12.5	10.5	10.0	---	---	9.0	8.5	8.5	8.0	13.0	12.5
24	15.5	12.0	10.5	10.0	---	---	9.0	8.5	8.5	8.5	13.0	13.0
25	16.0	13.0	10.5	10.0	---	---	9.0	8.5	9.0	8.5	13.0	13.0
26	16.0	12.5	10.5	10.0	---	---	9.0	8.5	9.5	9.0	13.0	12.5
27	16.0	12.5	10.5	10.0	---	---	8.5	8.0	10.0	9.0	13.0	12.5
28	16.0	13.5	10.5	10.0	---	---	8.5	8.5	9.5	9.0	12.5	12.0
29	14.5	13.0	10.5	10.0	---	---	8.5	8.0	---	---	12.5	12.0
30	15.5	12.5	10.5	10.5	---	---	8.5	8.0	---	---	12.5	11.0
31	16.5	14.0	---	---	---	---	8.0	7.5	---	---	12.0	10.5
MONTH	22.5	12.0	15.5	9.0	---	---	---	---	10.0	6.5	13.0	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.0	14.0	13.5	18.0	17.0	---	---	26.5	26.0	27.5	27.0
2	11.5	10.0	14.0	13.5	18.5	18.0	31.5	30.0	27.0	26.0	27.5	27.0
3	12.0	10.0	14.0	13.5	19.0	18.5	30.5	29.5	27.0	26.5	27.5	26.5
4	12.5	11.0	14.0	13.5	19.5	19.0	30.0	29.5	27.0	26.5	---	---
5	12.5	12.0	14.0	13.5	19.0	18.5	30.5	30.0	27.5	26.5	---	---
6	12.5	12.0	14.5	14.0	19.0	19.0	30.5	30.5	27.0	26.0	---	---
7	12.5	12.0	15.5	14.5	19.0	19.0	30.5	30.0	27.0	26.0	---	---
8	12.5	12.0	15.5	14.5	19.0	18.5	30.0	25.5	27.0	26.5	---	---
9	---	---	14.5	14.0	19.0	18.5	26.0	24.5	27.0	26.5	---	---
10	---	---	14.0	13.5	19.0	18.5	25.5	24.5	27.0	26.5	---	---
11	---	---	14.0	13.5	20.0	19.0	25.0	24.0	27.0	26.0	---	---
12	---	---	13.5	13.0	20.0	20.0	25.5	24.0	27.0	26.5	---	---
13	---	---	13.5	13.0	20.5	20.0	25.5	24.0	27.0	26.5	---	---
14	---	---	14.0	13.0	20.5	20.5	25.5	24.0	27.0	26.5	---	---
15	---	---	14.0	13.0	21.0	20.0	25.5	24.0	27.0	26.5	---	---
16	---	---	14.0	13.0	21.0	20.5	25.0	24.0	27.0	26.5	---	---
17	---	---	13.5	13.0	---	---	25.0	24.0	27.0	26.5	---	---
18	---	---	13.5	13.0	---	---	25.0	24.5	27.0	26.5	---	---
19	---	---	14.0	13.0	---	---	25.5	24.5	27.0	26.5	---	---
20	---	---	14.0	13.5	---	---	25.5	25.0	27.0	26.5	---	---
21	---	---	14.5	14.0	---	---	25.5	25.0	27.0	26.5	---	---
22	---	---	14.5	14.0	---	---	25.5	25.0	27.5	26.5	---	---
23	---	---	15.0	14.5	---	---	25.5	25.0	27.5	26.5	---	---
24	---	---	15.0	14.5	---	---	26.0	25.0	27.5	27.0	---	---
25	---	---	15.5	15.0	---	---	26.5	25.0	27.5	27.0	---	---
26	---	---	16.0	15.5	---	---	26.5	25.5	27.5	27.0	---	---
27	---	---	16.0	15.5	---	---	26.5	26.0	27.5	27.0	---	---
28	---	---	16.5	16.0	---	---	26.5	26.0	27.5	27.0	---	---
29	---	---	17.0	16.5	---	---	26.5	26.0	27.5	27.0	---	---
30	---	---	17.5	17.0	---	---	26.5	26.0	27.5	27.0	---	---
31	---	---	17.5	17.0	---	---	26.5	26.0	27.5	27.0	---	---
MONTH	---	---	17.5	13.0	---	---	31.5	24.0	27.5	26.0	---	---

11388000 STONY CREEK BELOW BLACK BUTTE DAM, NEAR ORLAND, CALIF.

LOCATION.--Lat 39°49'07", long 122°19'26", in NW¼SW¼ sec.28, T.23 N., R.4 W., Tehama County, at gaging station on left bank, 200 ft (61 m) downstream from road bridge, 0.6 mi (1.0 km) downstream from Black Butte Dam, and 8.1 mi (13.0 km) northwest of Orland.

DRAINAGEA AREA.--737 mi² (1,909 km²).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1969, water years 1970 to current year (partial-record station). Published as "at damsite" in 1959-64.
Water temperatures: June 1969 to current year.
Sediment records: Water years 1958-62 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 27.0°C Aug. 14-16; minimum, 3.5°C Jan. 10.
Period of record:
Water temperatures: Maximum (1969-72, 1973 to current year), 29.0°C (recorded), July 29, 1971; minimum (1971 to current year), 3.5°C Jan. 3, 4, Feb. 2, Dec. 9, 1972, Jan. 10, 1974.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Temperature probe above water level Oct. 30 to Nov. 2, Mar. 19-21, Apr. 16-18. Recorder malfunction Apr. 25 to May 1, May 12 to June 5, June 14-30.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
MAR.												
19...	1240	7.7	29	12	12	1.0	134	0	19	12	.50	--
MAY												
20...	1125	381	--	--	10	--	129	0	--	8.2	.00	.10

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
MAR.												
19...	--	163	.22	3.39	124	14	286	7.9	14.5	60	11.6	100
MAY												
20...	.03	--	--	--	114	8	261	8.1	16.0	13	10.2	100

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.							
10...	1000	51	398	--	16.0	30	--
NOV.							
19...	1145	60	350	8.4	11.0	45	14.0
JAN.							
09...	1240	42	273	7.8	5.0	30	13.5
MAR.							
19...	1240	7.7	286	7.9	14.5	60	11.6
MAY							
20...	1125	381	261	8.1	16.0	13	10.2
JULY							
18...	1230	--	301	7.9	23.0	40	9.2
SEP.							
24...	1050	117	354	8.1	23.0	35	10.0

11388000 STONY CREEK BELOW BLACK BUTTE DAM, NEAR ORLAND, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	19.0	---	---	10.0	9.5	8.5	8.0	8.5	8.0	10.0	8.5
2	20.5	19.0	---	---	10.0	9.5	8.0	8.0	8.5	8.0	9.5	8.5
3	20.5	18.5	16.0	10.5	10.0	9.5	8.0	6.5	8.5	8.0	9.0	8.5
4	21.0	18.0	15.0	11.5	9.5	9.0	7.0	7.0	10.5	7.5	9.0	8.5
5	21.0	17.5	12.0	11.5	9.5	9.0	7.0	7.0	9.0	6.0	9.0	8.5
6	18.5	17.5	13.0	12.0	9.5	9.0	7.0	6.0	9.5	5.5	9.0	8.5
7	19.5	17.5	13.0	12.5	9.0	9.0	6.5	6.0	10.0	6.5	9.0	8.5
8	20.0	17.0	15.5	12.0	9.5	9.0	6.0	5.0	10.5	6.5	9.0	8.0
9	20.0	16.0	13.0	12.0	9.5	9.0	6.0	4.0	10.0	6.5	9.0	8.0
10	20.0	15.5	13.5	13.0	9.5	9.0	6.0	3.5	10.5	7.0	8.5	8.0
11	20.5	15.5	14.0	13.0	10.0	9.0	5.5	5.5	11.5	6.5	9.0	8.0
12	20.0	15.5	15.0	12.0	9.0	9.0	5.5	5.5	8.5	7.5	9.5	8.5
13	20.0	15.5	13.0	11.5	9.5	9.0	6.0	5.5	10.0	6.5	10.0	8.5
14	20.0	15.5	13.5	11.5	9.5	9.0	6.0	6.0	10.5	7.5	10.5	9.0
15	20.0	15.5	12.5	12.0	9.0	9.0	6.5	6.0	11.0	7.5	10.5	9.0
16	20.0	15.5	13.5	12.0	9.0	9.0	8.5	6.5	11.5	7.5	11.0	9.0
17	20.0	15.5	12.0	11.0	9.5	9.0	9.0	8.5	10.5	6.5	14.0	9.0
18	20.0	15.5	13.5	10.0	9.5	9.0	9.0	8.5	8.5	8.0	13.5	9.0
19	19.5	16.0	12.0	9.0	9.0	9.0	9.0	8.5	11.0	8.0	---	---
20	19.0	15.5	11.0	9.5	9.0	9.0	9.5	9.0	9.5	7.0	---	---
21	19.5	16.0	11.5	9.5	9.0	9.0	9.0	9.0	10.5	7.5	---	---
22	17.5	15.0	10.5	9.0	9.0	9.0	9.0	8.5	11.0	6.5	15.0	10.0
23	18.0	14.5	10.5	8.5	9.0	8.5	9.0	8.5	10.5	6.5	14.0	9.5
24	17.5	14.5	11.0	8.5	9.0	8.5	9.0	8.5	11.5	7.0	14.0	9.5
25	17.5	14.0	11.0	8.5	8.5	8.5	8.5	8.5	12.0	7.5	10.5	9.5
26	18.0	14.0	11.0	8.5	8.5	8.5	9.0	8.5	11.0	8.0	14.0	10.0
27	18.0	14.0	10.5	9.5	8.5	8.5	8.5	8.5	9.5	7.5	10.5	9.5
28	18.0	13.5	11.5	9.5	9.0	8.5	8.5	8.0	9.5	8.5	15.0	9.5
29	19.5	11.5	10.5	9.5	9.0	8.5	8.5	8.0	---	---	12.5	10.5
30	---	---	10.0	9.5	9.0	8.5	8.5	8.0	---	---	13.0	11.0
31	---	---	---	---	9.0	8.5	8.5	8.0	---	---	11.5	11.0
MONTH	21.0	11.5	16.0	8.5	10.0	8.5	9.5	3.5	12.0	5.5	15.0	8.0

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

11389000 SACRAMENTO RIVER AT BUTTE CITY, CALIF.

LOCATION.--Lat 39°27'28", long 121°59'35", in SE¼NE¼ sec.32, T.19 N., R.1 W., Glenn County, temperature recorder at gaging station on left bank, 100 ft (30 m) upstream from highway bridge, 0.5 mi (0.8 km) south of Butte City, and at mile 115.8 (186.3 km) upstream from Sacramento.
DRAINAGE AREA.--12,081 mi² (31,290 km²).
PERIOD OF RECORD.--Chemical analyses: May 1955 to September 1966.
Water temperatures: May 1955 to September 1958, October 1959 to September 1967, July 1969 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum recorded, 20.0°C on several days during July; minimum, 7.5°C Mar. 8, 9.
Period of record:
Water temperatures: Maximum, 24.0°C June 2, 3, 5, 7, 1960; minimum (1955-57, 1959-62, 1963-67, 1969 to current year), freezing point Jan. 2-5, 1960.
REMARKS.--Clock stopped Aug. 1-14.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	15.0	13.5	13.0	11.0	10.5	9.0	8.0	9.5	9.0	9.5	9.5
2	15.5	14.5	13.0	12.5	10.5	10.0	8.5	8.0	9.5	9.0	9.5	9.5
3	15.0	14.0	12.5	12.0	10.0	10.0	8.5	8.0	9.5	9.0	9.5	8.5
4	15.0	14.0	12.0	11.0	10.0	10.0	8.5	8.5	9.5	9.0	9.0	8.5
5	14.5	14.0	11.5	10.5	10.5	10.0	8.5	8.0	9.5	9.0	9.5	9.0
6	14.0	13.5	11.0	10.5	10.5	10.5	8.5	8.0	9.0	8.5	10.0	9.5
7	14.0	13.5	12.0	11.0	11.0	10.5	8.5	8.0	9.0	8.5	10.0	9.0
8	14.0	13.5	13.0	12.0	11.0	10.5	8.0	8.0	9.5	9.0	9.0	7.5
9	14.0	13.0	13.0	13.0	10.5	10.5	8.0	8.0	9.5	9.5	0.0	7.5
10	14.0	13.5	13.5	13.0	10.5	10.5	8.5	8.0	9.5	9.0	9.0	8.5
11	14.0	13.5	13.5	13.5	10.5	10.5	8.5	8.5	9.5	9.0	10.0	9.0
12	14.0	13.5	13.5	13.0	10.5	10.0	8.5	8.5	9.5	9.0	10.5	10.0
13	14.0	13.5	13.0	12.0	10.0	10.0	9.0	8.5	9.0	8.5	11.0	10.5
14	14.5	13.5	12.0	11.0	10.0	9.5	9.0	9.0	9.0	8.5	11.0	11.0
15	14.5	14.0	11.0	11.0	9.5	9.5	9.5	9.0	9.0	9.0	11.5	11.0
16	15.0	14.0	11.5	11.0	9.5	9.5	10.5	9.5	9.5	9.0	11.5	10.0
17	15.0	14.5	11.5	11.5	9.5	9.0	11.0	10.5	9.5	9.5	10.5	10.0
18	14.5	14.0	11.5	11.0	9.5	9.5	11.5	11.0	9.5	9.0	11.0	10.5
19	14.5	14.5	11.0	11.0	10.0	9.5	11.5	11.5	9.5	9.0	11.0	10.5
20	14.5	14.0	11.0	10.5	9.5	9.5	11.5	11.0	9.5	9.0	10.5	10.5
21	15.0	14.5	10.5	10.5	9.5	9.5	11.0	9.5	9.0	9.0	10.5	10.5
22	14.5	14.5	10.5	10.0	9.5	9.5	9.5	9.0	9.0	9.0	11.0	10.5
23	14.0	13.5	11.0	10.5	10.0	9.5	9.5	9.0	9.0	9.0	11.0	10.5
24	13.5	13.0	11.0	11.0	10.0	10.0	9.5	9.5	9.0	9.0	11.5	11.0
25	13.5	12.5	11.0	11.0	10.0	10.0	10.0	9.5	9.5	9.0	12.0	11.5
26	12.5	12.0	11.0	11.0	10.5	10.0	9.5	9.0	10.0	9.5	12.0	11.5
27	12.5	12.0	11.0	10.5	10.5	10.0	9.5	8.5	10.0	9.5	12.0	11.5
28	13.5	13.0	11.0	11.0	10.5	10.0	9.0	9.0	9.5	9.5	11.5	11.0
29	13.0	12.0	11.0	11.0	11.0	10.5	9.0	9.0	---	---	11.5	11.5
30	13.0	12.0	11.0	11.0	11.0	10.0	9.0	9.0	---	---	11.5	11.0
31	13.5	12.5	---	---	10.5	9.0	9.0	9.0	---	---	11.0	10.0
MONTH	16.0	12.0	13.5	10.0	11.0	9.0	11.5	8.0	10.0	8.5	12.0	7.5

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

11389470 COLUSA WEIR SPILL TO BUTTE BASIN NEAR COLUSA, CALIF.

LOCATION.--Lat 39°14'11", long 121°59'33", in NW¼SE¼ sec.17, T.16 N., R.1 W., Colusa County, on left bank downstream end of Colusa weir 1.7 mi (2.7 km) northeast of Colusa Post Office.

PERIOD OF RECORD.--Sediment records: December 1972 to current year (flood periods only).

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 3,020 mg/l Jan. 17.
Total-sediment discharge: Maximum daily, 414,000 tons (376,000 tonnes) Jan. 17.
Period of record:
Sediment concentrations: Maximum daily, 3,020 mg/l Jan. 17, 1974.
Total-sediment discharge: Maximum daily, 414,000 tons (376,000 tonnes) Jan. 17, 1974.

REMARKS.--Colusa weir diverts flood flows from the Sacramento River into Butte Basin to reduce downstream flooding.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)
1				0	0	0	12900	2030	77800
2				0	0	0	25800	1650	115000
3				0	0	0	21900	1120	66200
4				0	0	0	13400	970	35100
5				0	0	0	13100	1110	39300
6				0	0	0	12900	750	26100
7				0	0	0	11700	620	19600
8				0	0	0	10800	510	14900
9				0	0	0	8770	400	9470
10				0	0	0	4450	295	3540
11				0	0	0	1730	205	958
12				9970	863	19700	1790	299	1550
13				17600	405	19200	2100	256	1450
14				12700	274	9400	2380	300	1930
15				6670	144	2590	1280	215	743
16				5600	128	1940	78	72	28
17				11000	237	7590	0	0	0
18				17000	1300	61100	37	55	17
19				20800	487	27300	101	148	49
20				19100	200	10300	0	0	0
21				4460	81	1260	0	0	0
22				1420	293	2090	11800	787	24600
23				9600	740	19200	20500	411	22700
24				12000	420	13600	11000	229	6800
25				11200	337	10200	7550	137	2790
26				10700	303	8750	5550	87	1300
27				9400	275	6980	4290	67	776
28				5180	247	3450	7920	303	7200
29				3380	222	2030	16700	1410	65000
30				3560	270	2700	26700	924	61500
31				--	--	--	29400	332	26400
TOTAL	0	--	0	191340	--	230180	286626	--	632801

11389470 COLUSA WEIR SPILL TO BUTTE BASIN NEAR COLUSA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)
1	19500	214	11300	15000	308	12500	342	20	141
2	13500	152	5540	15600	325	13700	8320	341	7540
3	10800	120	3500	11100	220	6590	3850	234	2370
4	7160	99	1910	6960	189	3550	1430	171	873
5	2360	86	548	5160	174	2420	0	0	0
6	1590	95	408	3040	161	1320	0	0	0
7	1910	108	557	603	131	213	0	0	0
8	1750	98	463	.20	4	.03	11600	466	15500
9	646	75	131	0	0	0	7610	241	5270
10	1.0	4	.13	0	0	0	903	178	468
11	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	73	69	44
13	248	18	44	0	0	0	123	85	63
14	2030	166	910	0	0	0	0	0	0
15	8680	308	8540	0	0	0	0	0	0
16	31200	1230	115000	0	0	0	527	72	396
17	50800	3020	414000	0	0	0	4410	235	2800
18	59400	2370	380000	0	0	0	5420	190	2780
19	55200	1700	253000	0	0	0	5500	157	2330
20	51600	1170	163000	0	0	0	5020	137	1860
21	46900	704	89100	0	0	0	4130	129	1440
22	42100	503	57200	0	0	0	3580	122	1180
23	40300	400	43500	0	0	0	2540	115	789
24	37800	363	37000	0	0	0	106	30	30
25	35600	340	32700	0	0	0	0	0	0
26	34200	297	27400	0	0	0	0	0	0
27	32200	275	23900	0	0	0	0	0	0
28	28400	268	20600	0	0	0	0	0	0
29	25700	265	18400	--	--	--	0	0	0
30	23200	263	16500	--	--	--	18000	1440	98400
31	20900	250	14100	--	--	--	45700	1660	204000
TOTAL	685675.0	--	1739251.13	57463.20	--	40293.03	129184	--	348274

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	TOTAL SEDIMENT DISCHARGE (TONS/DAY)
1	57700	857	134000						
2	56900	670	103000						
3	55800	530	79800						
4	51400	411	57000						
5	43200	316	36900						
6	28100	290	22000						
7	21300	280	16100						
8	15000	271	11000						
9	12500	250	8440						
10	12700	227	7780						
11	11400	237	7290						
12	9650	234	6100						
13	8630	221	5150						
14	7860	210	4460						
15	6380	186	3200						
16	2790	150	1130						
17	1380	130	484						
18	756	118	241						
19	310	110	92						
20	4.6	7	.64						
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	403760.6	--	504167.64	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1754048.80
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 3494966.80

11389470 COLUSA WEIR SPILL TO BUTTE BASIN NEAR COLUSA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
12...	1320	14.0	11200	547	16500	28	33	50	68	83
12...	1530	13.5	12600	553	18800	24	36	51	67	80
13...	0830	12.5	18400	421	20900	29	38	54	67	78
14...	1100	12.0	13300	280	10100	33	46	59	72	79
15...	1200	11.5	6670	129	2320	25	36	50	65	81
16...	1000	11.5	5460	102	1500	26	36	51	69	82
17...	1320	11.5	11900	215	6910	22	34	46	60	74
19...	1140	11.0	20800	465	26100	21	28	39	52	65
20...	1015	10.0	19600	174	9210	19	32	39	46	60
DEC.										
27...	1045	10.0	4050	58	634	--	--	--	--	--
JAN.										
02...	1400	8.0	13500	190	6930	21	28	37	48	59
04...	1335	7.0	6610	99	1770	--	--	--	--	--
16...	1055	10.0	30400	927	76100	28	41	57	69	78
18...	1030	9.0	59900	2040	330000	44	59	73	82	86
21...	1400	9.0	46600	662	83300	27	39	51	60	68
22...	1105	8.0	42200	510	58100	27	35	47	56	63
23...	1140	9.0	40300	418	45500	25	35	44	54	62
25...	1305	9.0	35600	319	30700	22	34	42	51	59
26...	0950	8.5	34200	332	30700	21	30	37	46	53
30...	1325	9.0	23200	238	14900	22	31	40	51	62
FEB.										
01...	1415	9.0	14000	267	10100	21	31	41	53	69
04...	1025	8.5	7390	168	3350	26	36	44	58	73
06...	0940	7.5	3140	159	1350	32	44	55	70	85
MAR.										
04...	1235	9.0	1020	185	509	39	55	70	85	96
18...	1240	12.5	5820	165	2590	17	30	39	51	66
20...	1245	14.0	4450	119	1430	20	32	42	57	72
APR.										
01...	1445	10.5	58600	853	135000	26	38	50	59	65
03...	1230	10.5	57500	538	83500	27	38	50	59	66
05...	1110	11.0	45200	304	37100	20	28	38	49	58
08...	1450	11.5	14900	276	11100	16	24	34	46	59
10...	0840	10.0	12400	197	6600	16	25	34	47	62
12...	1010	11.5	9800	200	5290	16	25	35	50	63

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. FALL DIAM. % FINER THAN .500 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.									
12...	93	--	100	--	--	--	--	--	--
12...	92	--	100	--	--	--	--	--	--
13...	86	--	96	--	100	--	--	--	--
14...	91	--	98	--	100	--	--	--	--
15...	--	91	--	98	--	100	--	--	--
16...	--	91	--	98	--	100	--	--	--
17...	--	86	--	97	--	100	--	--	--
19...	77	--	92	--	100	--	--	--	--
20...	69	--	83	--	100	--	--	--	--
DEC.									
27...	--	88	--	91	--	97	--	99	100
JAN.									
02...	--	67	--	71	--	84	--	97	100
04...	--	84	--	86	--	95	--	99	100
16...	82	--	89	--	100	--	--	--	--
18...	88	--	92	--	99	--	100	--	--
21...	72	--	78	--	97	--	100	--	--
22...	68	--	73	--	94	--	100	--	--
23...	67	--	73	--	93	--	100	--	--
25...	64	--	70	--	92	--	100	--	--
26...	58	--	66	--	93	--	100	--	--
30...	72	--	82	--	97	--	100	--	--
FEB.									
01...	85	--	94	--	99	--	100	--	--
04...	--	84	--	86	--	95	--	99	100
06...	--	96	--	99	--	99	--	100	--
MAR.									
04...	--	100	--	--	--	--	--	--	--
18...	--	80	--	94	--	99	--	100	--
20...	86	--	98	--	100	--	--	--	--
APR.									
01...	70	--	77	--	96	--	100	--	--
03...	71	--	77	--	95	--	100	--	--
05...	65	--	72	--	96	--	100	--	--
08...	79	--	93	--	99	--	100	--	--
10...	77	--	94	--	99	--	100	--	--
12...	81	--	96	--	99	--	100	--	--

11389500 SACRAMENTO RIVER AT COLUSA, CALIF.

LOCATION.--Lat 39°12'51", long 121°59'57", at north end of Jimeno Grant, Colusa County, at gaging station on right bank just downstream from highway bridge at Colusa, and at mile 89.4 (143.8 km) upstream from Sacramento.

DRAINAGE AREA.--12,096 mi² (31,329 km²).

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1966, water year 1972 (partial-record station). Sediment records: December 1972 to current year (flood periods only).

EXTREMES.--Period of record:
Sediment concentrations (1972-73): Maximum daily, 938 mg/l Jan. 12, 1973.
Sediment discharge (1972-73): Maximum daily, 91,300 tons (82,827 tonnes) Jan. 12, 1973.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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...	1330	12.0	38500	357	37100	26	36	46
15...	1400	11.5	35600	212	20400	15	24	32
16...	1340	12.0	35200	189	18000	12	21	28
17...	1120	11.0	37800	270	27600	18	26	37
20...	1440	10.5	41000	237	26200	17	24	32

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV.							
14...	56	65	73	81	97	100	--
15...	42	53	63	73	95	100	--
16...	38	48	56	67	90	100	--
17...	48	58	71	83	94	99	100
20...	40	48	57	68	88	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
NOV.										
14...	1410	12.0	38500	16	57	65	72	80	89	100

11390000 BUTTE CREEK NEAR CHICO, CALIF.

LOCATION.--Lat 39°43'34", long 121°42'28", in NW¼NW¼ sec.36, T.22 N., R.2 E., Butte County, at gaging station on right bank, 0.7 mi (1.1 km) downstream from Little Butte Creek, and 7.5 mi (12.1 km) east of Chico.

DRAINAGE AREA.--147 mi^2 (381 km^2).

PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), October 1953 to September 1968, water years 1969 to current year (partial-record station).
Water temperatures: November 1961 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 22.0°C on several days during July and August; minimum, 4.5°C Jan. 2, 10, Feb. 6, 7.
Period of record:
Water temperatures: Maximum (1961-64, 1965 to current year), 26.0°C July 21, 22, 1966; minimum, 1.0°C Dec. 14, 15, 1967.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Clock stopped Nov. 23-26; range in temperature, 7.0°C to 8.0°C.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV., 1973												
13...	0905	1860	--	--	6.4	2.2	2.2	.6	32	0	26	.6
JAN., 1974												
16...	1300	6030	--	--	--	--	2.2	--	31	0	25	--
MAR.												
12...	1020	1880	--	--	--	--	--	--	--	--	--	--
MAY												
06...	0950	654	100	10	--	--	2.5	--	36	0	30	--
JULY												
17...	1040	245	--	--	--	--	--	--	--	--	--	--
SEP.												
16...	0930	162	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
NOV., 1973											
13...	.9	.05	--	--	--	50	.07	251	25	0	16
JAN., 1974											
16...	.0	--	--	--	--	--	--	--	22	0	--
MAR.											
12...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	.0	.01	.00	.01	.00	--	--	--	27	0	--
JULY											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
16...	--	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV., 1973											
13...	.2	55	7.2	9.5	20	13.4	0	--	--	--	--
JAN., 1974											
16...	.2	52	7.1	9.0	70	13.1	0	--	--	--	--
MAR.											
12...	--	66	7.4	8.0	6	12.6	--	--	--	--	--
MAY											
06...	.2	64	7.4	12.0	1	11.3	0	0	0	0	30
JULY											
17...	--	97	7.6	17.0	1	9.8	--	--	--	--	--
SEP.											
16...	--	105	7.6	14.0	1	10.4	--	--	--	--	--

11390000 BUTTE CREEK NEAR CHICO, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	9.0	12.0	10.5	16.5	14.0	21.0	18.0	22.0	19.0	20.0	17.0
2	10.0	8.5	11.5	10.0	17.5	14.5	20.5	18.0	22.0	19.0	20.0	17.0
3	10.0	8.5	11.5	10.0	17.5	15.5	20.0	17.0	22.0	19.5	20.0	17.0
4	10.5	8.5	11.5	9.5	17.0	15.0	20.0	17.0	22.0	19.5	20.0	17.0
5	10.5	9.5	12.0	10.0	17.5	14.5	20.5	17.5	21.5	19.5	20.0	17.0
6	10.5	9.5	13.0	11.5	17.5	14.5	20.0	17.5	21.5	18.5	19.0	17.0
7	10.5	9.0	13.0	11.5	17.0	14.5	19.5	17.0	21.5	18.5	19.5	17.0
8	10.5	9.5	13.5	12.5	16.0	13.5	17.5	16.5	21.0	18.0	20.0	17.0
9	10.0	9.0	13.0	12.0	17.0	14.0	16.5	15.0	20.5	18.0	19.5	17.0
10	10.0	8.5	12.5	11.5	17.5	14.5	17.5	15.0	20.5	17.5	19.5	17.0
11	10.5	9.0	12.5	11.0	18.0	15.5	17.5	14.5	20.5	17.5	19.0	16.5
12	10.5	9.5	12.5	11.0	17.5	15.5	17.5	14.5	20.0	17.5	18.5	16.0
13	10.0	9.0	11.5	10.0	18.5	15.5	18.0	15.0	20.0	17.0	18.0	15.5
14	10.5	9.0	12.0	10.0	18.5	16.0	19.0	15.5	19.5	17.0	18.0	15.5
15	11.0	10.0	12.5	10.5	18.5	16.0	19.0	16.0	19.5	16.5	18.0	15.5
16	10.5	9.0	12.5	10.0	17.0	15.0	19.0	16.0	19.0	16.5	18.0	15.0
17	11.5	10.0	10.5	8.5	16.5	14.0	19.0	16.0	19.0	16.0	18.0	15.0
18	11.0	9.0	10.0	8.0	17.0	14.5	19.5	16.5	19.0	16.0	18.0	15.0
19	10.0	8.5	11.0	8.0	16.0	14.5	20.0	17.0	18.5	16.0	18.5	16.0
20	11.0	9.5	12.5	10.0	16.0	13.0	20.0	17.0	18.5	15.5	19.0	16.0
21	11.5	10.0	13.0	10.5	17.5	14.0	20.0	17.0	19.0	15.5	18.5	16.0
22	12.0	10.5	14.0	11.5	19.0	16.0	20.0	17.0	19.0	16.5	19.0	16.5
23	11.0	8.5	14.5	12.0	19.0	16.5	20.5	17.0	19.5	16.5	18.0	16.0
24	9.0	8.0	15.0	12.0	18.0	15.5	21.0	17.5	20.0	17.0	18.0	15.5
25	8.5	7.5	16.0	13.5	17.5	15.0	21.0	18.0	20.0	17.5	18.0	16.0
26	9.0	7.5	17.0	14.0	17.0	14.0	22.0	19.0	21.0	17.0	18.0	16.0
27	9.5	7.5	17.5	15.0	17.5	14.0	22.0	19.5	20.0	17.5	17.0	15.5
28	10.5	8.5	16.5	14.5	18.5	15.0	22.0	19.0	20.5	17.5	16.5	14.5
29	11.0	9.0	16.0	14.0	20.0	16.0	21.5	18.5	20.0	17.5	16.5	14.5
30	12.0	10.0	15.5	13.5	20.5	17.5	21.5	18.0	19.5	17.5	16.0	14.0
31	---	---	15.5	13.0	---	---	21.5	18.5	20.0	17.5	---	---
MONTH	12.0	7.5	17.5	8.0	20.5	13.0	22.0	14.5	22.0	15.5	20.0	14.0

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.

LOCATION.--Lat 39°34'54", long 121°41'54", in SE¼SW¼ sec.13, T.20 N., R.2 E., Butte County, at gaging station 25 ft (8 m) upstream from county bridge, 4.1 mi (6.6 km) northeast of Nelson, and 10.5 mi (16.9 km) northwest of Oroville.

PERIOD OF RECORD.--Water temperatures: August 1970 to September 1974 (discontinued).
Sediment records: August 1970 to September 1974 (discontinued).

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 2,140 mg/l Mar. 29; minimum daily, no flow for many days during August and September.
Sediment discharge: Maximum daily, 11,300 tons (10,300 tonnes) Mar. 29; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 2,310 mg/l Feb. 27, 1973; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 18,500 tons (16,800 tonnes) Feb. 27, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--No flow Aug. 23 to Sept. 30.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	14.0	10.0	12.5	13.0	10.5	12.0	---	24.0	28.5	---	---
2	---	---	10.0	6.0	10.0	9.0	9.5	22.0	---	---	---	---
3	16.5	---	10.5	5.5	---	9.5	14.5	---	25.0	---	---	---
4	---	10.5	8.0	6.0	10.5	13.0	17.0	21.0	---	32.5	28.5	---
5	---	---	9.5	5.5	6.5	12.0	14.0	---	24.0	---	---	---
6	---	---	10.5	5.5	8.0	10.5	---	---	---	---	29.5	---
7	16.0	14.5	9.5	7.0	10.5	8.5	16.5	16.5	20.0	22.0	---	---
8	---	15.5	9.0	6.0	---	7.5	13.0	---	---	---	28.0	---
9	---	14.0	---	6.5	9.0	14.5	13.5	23.0	---	---	---	---
10	15.5	15.0	9.0	5.5	10.5	13.0	15.0	---	28.0	---	---	---
11	---	14.5	9.5	6.0	9.5	10.0	17.5	23.0	---	23.0	26.5	---
12	---	14.0	8.5	7.5	7.0	14.0	17.0	---	---	---	---	---
13	---	12.0	10.0	11.5	---	15.5	18.5	---	23.5	---	---	---
14	---	13.5	9.5	11.0	10.0	18.0	---	21.0	---	---	---	---
15	---	11.5	8.0	11.0	12.0	18.0	18.0	---	---	24.0	24.5	---
16	18.0	12.0	8.0	10.5	12.5	17.0	---	19.5	24.5	---	---	---
17	---	11.0	10.5	11.5	10.0	---	17.0	---	---	---	---	---
18	19.0	11.0	9.5	12.5	8.0	16.0	12.0	18.0	20.5	26.5	---	---
19	---	10.0	9.5	13.5	12.5	17.0	---	---	---	---	---	---
20	---	9.5	8.5	11.0	12.0	18.5	16.0	19.0	---	---	---	---
21	---	10.0	8.0	10.5	8.0	14.5	---	---	28.0	28.0	---	---
22	15.0	10.0	9.5	10.5	11.0	17.5	16.5	20.5	---	---	---	---
23	15.5	9.5	8.5	11.0	11.5	17.0	---	---	---	---	---	---
24	---	9.5	10.5	9.5	13.5	19.0	13.5	---	25.5	---	---	---
25	---	8.5	10.0	12.0	9.5	13.0	---	---	---	29.5	---	---
26	16.5	9.0	10.0	8.0	13.0	16.0	18.0	26.0	---	---	---	---
27	---	9.0	11.0	9.5	11.0	14.0	---	---	---	---	---	---
28	---	---	12.5	10.5	9.5	14.0	19.0	---	29.5	---	---	---
29	---	10.5	11.5	12.5	---	13.5	---	23.5	---	29.5	---	---
30	15.0	---	10.0	10.0	---	14.0	19.0	---	---	---	---	---
31	---	---	9.0	9.0	---	10.5	---	---	---	33.0	---	---
MONTH	---	11.5	9.5	9.0	10.5	14.0	---	---	---	---	---	---

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.--Continued
SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	8.6	12	.28	31	5	.42	757	884	3360
2	7.3	12	.24	31	4	.33	210	70	40
3	7.9	13	.28	31	3	.25	144	24	9.3
4	8.6	15	.35	31	2	.17	133	16	5.7
5	8.6	14	.33	36	5	.49	117	12	3.8
6	10	12	.32	71	45	8.8	110	16	4.8
7	13	10	.35	262	606	667	100	10	2.7
8	19	12	.62	116	99	42	98	9	2.4
9	22	11	.65	312	616	1550	89	6	1.4
10	22	7	.42	494	425	691	84	6	1.4
11	31	14	2.0	1800	1850	11200	105	57	19
12	18	15	.73	1140	1070	5630	100	18	4.9
13	19	13	.67	550	571	1330	151	96	49
14	21	12	.68	315	121	128	112	11	3.3
15	22	12	.71	170	51	23	93	7	1.8
16	23	12	.75	790	1100	3300	87	4	.94
17	23	12	.75	710	762	2440	287	355	485
18	14	13	.49	436	309	370	130	21	7.4
19	9.3	13	.33	220	105	62	100	9	2.4
20	5.1	11	.16	219	139	100	93	11	2.8
21	11	18	.65	188	68	35	480	976	1970
22	25	41	5.0	161	65	28	386	300	481
23	70	218	43	141	30	11	167	34	15
24	38	100	10	141	43	17	149	19	7.6
25	38	29	3.0	114	20	6.2	127	14	4.8
26	38	13	1.3	98	12	3.2	271	410	965
27	44	33	5.1	84	8	1.8	759	1070	3270
28	38	13	1.3	74	8	1.6	589	568	1320
29	31	11	.92	74	9	1.8	326	155	136
30	29	11	.86	859	997	5040	227	80	49
31	30	8	.65	---	---	---	179	35	17
MONTH	704.4	---	82.89	9699	---	32689.06	6760	---	12243.44

	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	164	23	10	187	213	128	1070	1260	4740
2	144	20	7.8	127	30	10	348	308	300
3	130	16	5.6	110	17	5.0	199	143	77
4	120	11	3.6	102	14	3.9	158	60	26
5	112	12	3.6	100	12	3.2	133	46	17
6	110	25	7.4	98	10	2.6	117	30	9.5
7	112	24	7.3	98	10	2.6	378	434	749
8	104	14	3.9	98	11	2.9	262	220	193
9	93	10	2.5	95	12	3.1	138	57	21
10	91	20	4.9	93	12	3.0	141	57	22
11	91	22	5.4	91	11	2.7	490	682	1210
12	389	566	694	91	10	2.5	382	399	477
13	233	199	130	111	25	7.8	176	135	64
14	900	964	4630	91	15	3.7	147	75	30
15	1410	1190	6910	89	9	2.2	141	58	22
16	1290	1200	6050	186	226	167	133	62	22
17	782	593	1630	107	33	9.5	127	52	18
18	875	964	3550	91	15	3.7	122	36	12
19	392	315	364	406	264	353	110	24	7.1
20	259	140	98	122	56	18	98	16	4.2
21	206	80	44	93	26	6.5	91	19	4.7
22	176	54	26	80	24	5.2	89	16	3.8
23	164	45	20	70	16	3.0	89	12	2.9
24	149	38	15	65	13	2.3	89	11	2.6
25	135	26	9.5	58	11	1.7	91	14	3.4
26	124	21	7.0	58	8	1.3	104	29	8.1
27	114	16	4.9	56	9	1.4	193	211	126
28	107	14	4.0	823	995	4070	229	215	152
29	104	12	3.4	---	---	---	1510	2140	11300
30	110	13	3.9	---	---	---	1290	1110	4680
31	128	201	93	---	---	---	405	350	407
MONTH	9318	---	24348.7	3796	---	4825.8	9050	---	24711.3

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	1080	1640	5790	53	19	2.7	17	14	.64
2	423	340	421	53	17	2.4	21	15	.85
3	252	149	101	51	17	2.3	21	16	.91
4	192	104	54	50	18	2.4	21	16	.91
5	173	77	36	48	17	2.2	18	15	.73
6	155	61	26	46	17	2.1	17	15	.69
7	138	47	18	45	16	1.9	16	14	.60
8	135	44	16	45	18	2.2	13	13	.46
9	155	135	59	40	21	2.3	11	9	.27
10	135	79	29	39	23	2.4	9.3	7	.18
11	120	46	15	39	25	2.6	8.3	7	.16
12	110	33	9.8	38	26	2.7	6.9	8	.15
13	101	19	5.2	32	27	2.3	6.5	9	.16
14	96	15	3.9	34	28	2.6	6.1	11	.18
15	96	15	3.9	34	29	2.7	5.8	12	.19
16	94	15	3.8	36	30	2.9	6.5	14	.25
17	92	14	3.5	39	30	3.2	7.4	16	.32
18	90	12	2.9	33	23	2.2	7.9	17	.36
19	87	11	2.6	31	12	1.0	9.8	17	.45
20	85	10	2.3	45	13	1.6	10	17	.46
21	81	11	2.4	69	23	4.5	8.3	16	.36
22	77	12	2.5	61	14	2.3	6.9	14	.26
23	88	21	5.4	39	13	1.5	5.0	11	.15
24	94	20	5.1	33	12	1.1	3.7	9	.09
25	83	16	3.6	26	11	.77	3.2	8	.07
26	74	13	2.6	22	10	.59	3.2	9	.08
27	62	10	1.7	26	10	.70	3.2	9	.08
28	59	9	1.4	25	10	.68	2.9	9	.07
29	54	11	1.6	25	10	.68	2.6	8	.06
30	53	18	2.6	24	10	.65	2.4	7	.05
31	---	---	---	27	14	1.1	---	---	---
MONTH	4534	---	6631.8	1208	---	61.27	280.9	---	10.19

	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	2.0	6	.03	1.8	9	.04	0	0	0
2	2.0	7	.04	2.2	9	.05	0	0	0
3	1.6	9	.04	2.4	9	.06	0	0	0
4	1.4	10	.04	7.7	42	1.1	0	0	0
5	1.1	10	.03	5.8	37	.58	0	0	0
6	.73	10	.02	3.7	21	.21	0	0	0
7	.96	9	.02	6.5	23	.40	0	0	0
8	27	29	3.3	6.1	24	.40	0	0	0
9	30	24	1.9	4.0	25	.27	0	0	0
10	23	21	1.3	2.0	26	.14	0	0	0
11	21	20	1.1	.73	26	.05	0	0	0
12	19	19	.97	.84	25	.06	0	0	0
13	18	18	.87	4.2	29	.33	0	0	0
14	17	16	.73	9.8	27	.71	0	0	0
15	16	14	.60	5.4	26	.38	0	0	0
16	13	15	.53	2.0	25	.14	0	0	0
17	13	17	.60	.73	25	.05	0	0	0
18	13	19	.67	.20	23	.01	0	0	0
19	13	19	.67	.09	23	.01	0	0	0
20	5.8	13	.20	.06	22	0	0	0	0
21	3.2	10	.09	.04	22	0	0	0	0
22	2.6	9	.06	.01	0	0	0	0	0
23	2.4	10	.06	0	0	0	0	0	0
24	2.0	10	.05	0	0	0	0	0	0
25	2.0	11	.06	0	0	0	0	0	0
26	2.0	11	.06	0	0	0	0	0	0
27	2.0	12	.06	0	0	0	0	0	0
28	2.0	12	.06	0	0	0	0	0	0
29	2.0	13	.07	0	0	0	0	0	0
30	2.2	13	.08	0	0	0	0	0	0
31	4.5	14	.19	0	0	0	---	---	---
MONTH	265.49	---	14.50	66.30	---	4.99	0	---	0
YEAR	45682.09		105623.9						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	704.40	82.89	15	98
NOVEMBER....	9699.00	32689.06	2590	35300
DECEMBER....	6760.00	12243.44	1290	13500
JANUARY 1974	9318.00	24348.70	2350	26700
FEBRUARY....	3796.00	4825.80	575	5400
MARCH.....	9050.00	24711.30	2240	27000
APRIL.....	4534.00	6631.80	779	7410
MAY.....	1208.00	61.27	40	101
JUNE.....	280.90	10.19	1	11
JULY.....	265.49	14.50	2	16
AUGUST.....	66.30	4.99	0	5
SEPTEMBER...	0.0	0.0	0	0
TOTAL.....	45682.09	105623.94	9882	115541

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
07...	0800	10.0	89	117	28	--	--	--	--	--
09...	1935	14.0	880	2630	6250	32	40	50	59	68
11...	0950	14.5	3850	2720	28300	22	26	33	40	47
12...	1250	14.0	736	304	604	28	36	45	54	60
13...	1600	12.0	515	749	1040	28	31	42	55	68
13...	1730	10.5	1120	3740	11300	24	33	42	52	61
17...	1630	12.0	1800	4330	21000	16	21	27	32	37
DEC.										
29...	2040	11.5	275	125	93	--	--	--	--	--
JAN.										
12...	1155	7.5	530	908	1300	26	34	41	47	51
14...	1720	11.0	2000	3260	17600	12	16	20	24	27
16...	1330	10.5	2930	3000	23700	28	36	45	55	64
16...	1515	11.0	2250	2120	12900	25	33	42	51	59
17...	1450	13.5	540	232	338	31	42	51	60	66
18...	1130	12.5	2640	4770	34000	19	25	32	39	44
19...	1800	13.5	322	202	176	--	--	--	--	--
FEB.										
25...	1600	9.5	58	11	1.7	--	--	--	--	--
MAR.										
02...	0900	9.0	317	291	249	--	--	--	--	--
08...	0935	6.0	252	158	108	--	--	--	--	--
27...	1325	14.0	182	142	70	--	--	--	--	--
APR.										
02...	0930	9.5	445	382	459	--	--	--	--	--
02...	1100	10.0	425	260	298	--	--	--	--	--

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.										
07...	--	82	--	91	--	100	--	--	--	--
09...	76	--	92	--	100	--	--	--	--	--
11...	54	--	65	--	88	--	96	--	100	--
12...	64	--	71	--	83	--	99	--	100	--
13...	74	--	84	--	97	--	100	--	--	--
13...	68	--	78	--	92	--	100	--	--	--
17...	41	--	49	--	79	--	99	--	100	--
DEC.										
29...	--	57	--	58	--	63	--	83	--	100
JAN.										
12...	53	--	62	--	95	--	100	--	--	--
14...	30	--	36	--	59	--	94	--	100	--
16...	70	--	79	--	92	--	100	--	--	--
16...	64	--	72	--	86	--	98	--	100	--
17...	70	--	77	--	94	--	100	--	--	--
18...	49	--	58	--	80	--	99	--	100	--
19...	--	50	--	57	--	74	--	100	--	--
FEB.										
25...	--	74	--	81	--	86	--	100	--	--
MAR.										
02...	--	57	--	64	--	87	--	99	--	100
08...	--	70	--	77	--	93	--	100	--	--
27...	--	91	--	94	--	99	--	100	--	--
APR.										
02...	--	50	--	60	--	86	--	100	--	--
02...	--	48	--	56	--	80	--	99	--	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	NUMBER OF SAM-PLING POINTS	DIS-CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT.												
12...	--	5	.00	2	11	28	43	56	71	87	96	100
JUNE												
07...	1135	5	15	2	15	38	52	64	80	95	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (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.							
21...	1510	8	.00	3	6	14	31

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.							
21...	48	58	67	80	94	99	100

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JAN.							
10...	1050	8.0	7	380	--	1	9
12...	1115	10.5	7	920	--	--	6
MAR.							
14...	0900	7.0	5	71	--	--	9
JULY							
16...	1300	--	8	7.9	1	5	18

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.							
10...	33	60	76	88	97	100	--
12...	37	55	68	78	86	100	--
MAR.							
14...	25	36	42	51	75	92	100
JULY							
16...	39	57	73	87	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (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
NOV.							
12...	1215	14.0	5	736	--	--	2
JAN.							
16...	1530	10.5	5	2130	--	--	1
17...	1520	13.5	5	530	--	1	3
APR.							
08...	1300	--	8	135	3	12	37

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
NOV.						
12...	23	44	58	69	81	100
JAN.						
16...	12	57	70	80	90	100
17...	13	31	48	65	84	100
APR.						
08...	47	63	76	88	95	100

11390500 SACRAMENTO RIVER BELOW WILKINS SLOUGH, NEAR GRIMES, CALIF.

LOCATION.--Lat 39°00'36", long 121°49'25", in NW¼NE¼ sec.2, T.13 N., R.1 E., Colusa County, temperature recorder at gaging station on right bank, 1,200 ft (366 m) downstream from Wilkins Slough, 5.8 mi (9.3 km) southeast of Grimes, and at mile 62.9 (101.2 km) upstream from Sacramento.

DRAINAGE AREA.--12,926 mi^2 (33,478 km^2).

PERIOD OF RECORD.--Water temperatures: October 1966 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 21.0°C several days during July and August; minimum, 8.0°C Jan. 8, 9, 12, 13, Mar. 9.
Period of record:
Water temperatures: Maximum, 22.0°C June 23, 1970, June 29, 1973; minimum, 4.0°C Dec. 26, 1968.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.0	15.5	15.0	17.5	17.0	20.0	19.0	21.0	20.0	18.0	17.0
2	11.0	10.5	17.0	15.5	18.0	17.0	20.0	19.5	21.0	20.0	18.0	17.0
3	11.0	11.0	17.5	16.5	18.5	17.5	19.5	19.0	21.0	20.5	18.0	17.5
4	11.5	11.0	18.0	17.5	19.0	18.0	19.5	18.5	21.0	20.0	18.0	17.0
5	11.5	11.5	18.0	18.0	18.5	18.0	20.0	19.5	21.0	20.5	18.0	17.5
6	12.0	11.5	18.5	18.0	18.5	18.0	20.0	19.5	20.5	20.0	18.0	17.0
7	12.0	11.5	19.0	18.5	18.5	18.0	20.0	19.5	20.5	20.0	18.0	17.0
8	12.0	11.5	19.5	18.0	18.0	16.5	20.0	18.5	20.5	20.0	18.0	17.0
9	12.0	12.0	18.0	17.5	17.5	16.5	18.5	17.5	20.0	19.5	18.0	17.5
10	12.0	11.0	17.5	17.0	17.5	17.0	17.5	17.5	20.0	19.5	17.5	17.0
11	11.5	11.0	17.0	16.0	18.0	17.5	17.5	17.0	19.5	19.0	17.5	17.0
12	12.0	11.5	16.5	15.5	18.5	17.5	18.0	17.5	19.0	18.5	17.0	16.5
13	12.0	11.5	16.0	15.0	18.5	17.5	18.5	18.0	19.0	18.5	17.0	16.5
14	12.0	11.5	15.5	15.0	18.5	17.5	19.5	18.5	18.5	18.0	17.0	16.5
15	12.0	12.0	15.5	15.0	18.5	17.5	20.0	19.0	19.0	18.0	17.0	16.5
16	13.0	12.0	16.0	15.0	18.5	17.5	20.0	19.5	18.5	18.0	17.0	16.5
17	13.0	13.0	15.0	14.5	18.0	17.5	20.0	19.0	18.0	17.5	17.0	16.0
18	13.0	12.5	14.5	13.5	17.5	17.0	20.0	19.5	18.0	17.5	17.0	16.0
19	12.5	12.0	14.0	13.5	17.0	16.5	20.5	19.5	18.0	17.5	17.0	16.0
20	12.0	12.0	14.0	13.5	16.5	16.0	21.0	20.0	18.0	17.5	17.5	16.5
21	13.5	12.0	15.0	14.0	17.0	16.0	21.0	20.0	18.0	17.0	17.5	17.0
22	15.0	13.5	16.0	15.0	18.0	17.0	21.0	20.0	18.0	17.5	18.0	17.5
23	15.5	15.0	16.5	16.0	18.5	18.0	20.5	20.0	18.5	17.5	18.0	17.5
24	15.5	14.0	17.0	16.5	18.5	18.5	20.5	20.0	19.0	18.0	18.5	17.5
25	14.0	13.5	17.5	17.0	19.0	18.5	20.5	20.0	19.0	18.0	18.5	17.5
26	13.5	13.0	18.0	17.5	18.5	18.0	21.0	20.0	18.5	18.0	18.5	17.5
27	14.0	13.0	18.5	18.0	18.5	18.0	21.0	20.0	18.5	17.5	18.5	17.5
28	15.0	14.0	19.0	18.5	19.0	18.0	21.0	20.5	18.0	17.5	18.5	17.5
29	15.0	14.5	18.5	17.5	19.0	18.5	21.0	20.5	18.0	17.0	18.0	17.5
30	15.0	14.5	18.0	17.0	19.5	19.0	21.0	20.0	17.5	17.0	17.5	17.0
31	---	---	17.5	17.0	---	---	21.0	20.0	17.0	16.5	---	---
MONTH	15.5	10.5	19.5	13.5	19.5	16.0	21.0	17.0	21.0	16.5	18.5	16.0

11390650 SACRAMENTO RIVER ABOVE COLUSA TROUGH, AT KNIGHTS LANDING, CALIF.

LOCATION.--Lat 38°48'18", long 121°43'22", in NW¼ sec.14, T.11 N., R.2 E., Yolo County, on right bank, 0.25 mi (0.40 km) upstream from Colusa Drain, 0.35 mi (0.56 km) upstream from State Highway 24 bridge at Knights Landing, and approximately 0.3 mi (0.5 km) upstream from gaging station at railroad bridge.

PERIOD OF RECORD.--Chemical analyses: July 1960 to current year.

REMARKS.--Records of discharge given for Sacramento River at Knights Landing (sta 11391000). Chemical-quality records furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
NOV., 1973											
27...	1225	26300	--	--	--	--	--	--	--	--	--
27...	1255	--	--	--	9.8	4.5	5.6	.9	55	0	45
DEC.											
19...	1300	27300	--	--	--	--	--	--	--	--	--
JAN., 1974											
22...	1645	27800	--	--	--	--	6.2	--	60	0	49
FEB.											
19...	1020	22900	--	--	--	--	--	--	--	--	--
MAR.											
21...	1215	25900	--	--	--	--	--	--	--	--	--
APR.											
24...	1225	15400	7200	200	--	--	7.4	--	82	0	67
MAY											
23...	1340	13400	--	--	--	--	--	--	--	--	--
JUNE											
27...	1600	10200	--	--	--	--	--	--	--	--	--
JULY											
23...	1535	9050	--	--	--	--	--	--	--	--	--
AUG.											
27...	1210	11200	--	--	--	--	--	--	--	--	--
SEP.											
25...	1200	9500	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM
NOV., 1973											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	6.1	2.4	.10	.10	.07	.02	79	.11	43	0	22
DEC.											
19...	--	--	.13	.50	.10	.02	--	--	--	--	--
JAN., 1974											
22...	--	2.8	.21	.40	.30	.03	--	--	51	2	--
FEB.											
19...	--	--	.16	.20	.15	.02	--	--	--	--	--
MAR.											
21...	--	--	.10	.10	.08	.02	--	--	--	--	--
APR.											
24...	--	3.3	.24	.40	.61	.08	--	--	68	1	--
MAY											
23...	--	--	.17	.10	.07	.02	--	--	--	--	--
JUNE											
27...	--	--	.11	.20	.10	.02	--	--	--	--	--
JULY											
23...	--	--	.08	.20	.04	.02	--	--	--	--	--
AUG.											
27...	--	--	.09	.20	.05	.02	--	--	--	--	--
SEP.											
25...	--	--	.13	.10	.07	.03	--	--	--	--	--

11390650 SACRAMENTO RIVER ABOVE COLUSA TROUGH, AT KNIGHTS LANDING, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV., 1973											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	.4	114	7.3	11.0	25	11.7	0	--	--	--	--
DEC.											
19...	--	115	7.3	9.5	25	11.7	--	--	--	--	--
JAN., 1974											
22...	.4	121	7.4	9.0	240	12.4	0	--	--	--	--
FEB.											
19...	--	115	7.4	9.0	60	11.8	--	--	--	--	--
MAR.											
21...	--	112	7.6	12.0	40	12.2	--	--	--	--	--
APR.											
24...	.4	168	8.2	14.5	50	10.0	0	0	20	0	40
MAY											
23...	--	138	7.4	17.0	20	9.0	--	--	--	--	--
JUNE											
27...	--	127	7.4	20.0	30	10.4	--	--	--	--	--
JULY											
23...	--	127	7.3	23.0	3	10.3	--	--	--	--	--
AUG.											
27...	--	128	7.6	20.0	10	9.6	--	--	--	--	--
SEP.											
25...	--	143	7.8	19.5	10	9.3	--	--	--	--	--

11390700 COLUSA TROUGH NEAR COLUSA, CALIF.

LOCATION.--Lat 39°11'43", long 122°03'34", in SE¼NE¼ sec.34, T.15 N., R.2 W., Colusa County, at gaging station 3 mi (5 km) west of Colusa, on State Highway 20, and 6 mi (10 km) northeast of Williams.

PERIOD OF RECORD.--Chemical analyses: Water years 1953 (partial-record station), October 1953 to current year.

REMARKS.--Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
18...	0815	179	--	--	--	--	81	--	278	0
NOV.										
27...	1000	418	--	--	44	37	106	2.5	288	11
JAN.										
22...	0945	--	--	--	--	--	107	--	292	0
APR.										
24...	0920	249	7500	280	--	--	48	--	172	0
JULY										
23...	0945	801	--	--	--	--	48	--	232	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)
OCT.										
18...	228	--	40	--	--	--	--	--	--	--
NOV.										
27...	255	164	52	.52	--	--	--	552	.75	623
JAN.										
22...	239	--	65	--	--	--	--	--	--	--
APR.										
24...	141	--	26	.54	.80	1.0	.10	--	--	--
JULY										
23...	190	--	22	--	--	--	--	--	--	--

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.									
18...	217	0	--	2.4	600	--	--	--	--
NOV.									
27...	264	9	47	2.8	200	--	--	--	--
JAN.									
22...	238	0	--	3.0	400	--	--	--	--
APR.									
24...	154	13	--	1.7	200	0	20	10	40
JULY									
23...	164	0	--	1.6	200	--	--	--	--

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.							
18...	0815	179	729	7.8	17.0	20	10.0
NOV.							
27...	1000	418	928	7.8	10.5	25	11.8
DEC.							
19...	1005	323	947	8.0	9.0	20	11.7
JAN.							
22...	0945	--	812	7.8	10.0	35	9.9
22...	1040	1260	687	7.9	9.5	70	11.5
FEB.							
19...	0825	175	1250	8.3	9.5	15	10.0
MAR.							
21...	0900	154	1280	8.1	14.5	20	9.6
APR.							
24...	0920	249	522	7.6	13.5	80	9.9
MAY							
23...	0900	1100	509	8.0	18.0	20	6.4
JUNE							
27...	0905	568	570	7.7	24.0	15	8.2
JULY							
23...	0945	801	447	7.5	25.0	20	7.4
AUG.							
27...	0845	1150	478	7.4	22.0	15	6.9
SEP.							
25...	0900	523	538	7.8	21.0	40	7.9

11392500 MIDDLE FORK FEATHER RIVER NEAR CLIO, CALIF.

LOCATION.--Lat 39°45'14", long 120°35'42", in NW¼SE¼ sec.23, T.22 N., R.12 E., Plumas County, temperature recorder at gaging station on left bank, 0.6 mi (1.0 km) upstream from Frazier Creek, 1.0 mi (1.6 km) northwest of Clio and 2.2 mi (3.5 km) southeast of Blairsden.
DRAINAGE AREA.--686 mi^2 (1,777 km^2).
PERIOD OF RECORD.--Water temperatures: October 1963 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 25.0°C July 25, 29, Aug. 1.
Period of record:
Water temperatures: Maximum, 26.5°C July 15-17, 1972: minimum (1963-66, 1968-73), freezing point on many days in 1963, 1969, 1971-73.
REMARKS.--Recorder malfunction Nov. 24, Dec. 6, 11, 14, 16, 21, 23, Dec. 25 to Jan. 20, Jan. 22, 23, 26, 31, Apr. 1, 2.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	10.5	10.0	7.5	4.0	2.5	---	---	5.5	4.5	4.5	2.5
2	13.0	8.0	8.5	6.5	2.5	2.5	---	---	5.5	4.0	2.5	2.0
3	12.0	8.0	7.5	6.0	2.5	2.0	---	---	4.0	3.5	2.0	2.0
4	12.5	7.0	6.0	5.0	2.5	2.0	---	---	4.5	4.0	2.5	2.0
5	12.0	7.5	5.5	4.5	2.0	2.0	---	---	4.5	4.0	3.5	2.5
6	13.0	8.5	8.5	4.5	---	---	---	---	4.0	3.5	4.5	3.5
7	13.0	9.5	10.0	6.5	3.0	2.0	---	---	4.0	3.0	5.0	4.5
8	11.0	9.5	9.0	6.5	3.0	2.5	---	---	4.5	3.5	5.0	5.0
9	11.0	7.5	8.5	6.5	2.5	2.5	---	---	5.0	4.0	6.0	5.0
10	10.5	6.5	9.0	7.5	2.5	2.0	---	---	5.5	4.5	6.0	5.5
11	10.5	6.5	8.5	8.0	---	---	---	---	6.0	5.0	6.0	5.5
12	12.0	7.5	8.0	6.5	2.5	2.0	---	---	5.5	5.0	6.5	5.5
13	13.0	8.0	6.5	5.0	2.5	2.5	---	---	5.0	4.5	8.5	6.0
14	13.5	8.5	6.0	4.5	---	---	---	---	6.0	5.0	9.0	6.5
15	13.5	9.0	5.0	4.0	2.5	2.0	---	---	7.0	5.0	9.5	6.5
16	13.0	8.5	5.5	4.5	---	---	---	---	7.0	6.0	9.5	7.5
17	13.0	8.5	5.5	4.0	3.5	2.0	---	---	6.5	5.5	8.5	7.0
18	12.0	8.0	4.0	4.0	3.0	2.5	---	---	6.5	5.0	10.0	7.0
19	12.5	8.0	4.0	3.0	2.5	2.0	---	---	6.0	5.0	10.5	6.5
20	12.5	10.0	3.0	2.5	2.0	2.0	---	---	6.0	5.0	10.5	6.5
21	12.5	10.5	3.0	2.5	---	---	5.0	4.5	5.0	4.5	10.5	6.5
22	11.0	7.5	3.0	3.0	2.0	2.0	---	---	4.5	4.0	10.5	6.5
23	10.0	6.0	3.0	2.5	---	---	---	---	4.5	4.0	10.5	6.5
24	9.5	6.0	---	---	2.0	2.0	5.0	4.5	6.0	4.5	11.0	7.0
25	10.5	7.0	3.5	2.5	---	---	4.5	4.0	7.0	5.5	9.5	8.0
26	10.0	6.5	3.5	3.0	---	---	---	---	6.5	5.5	9.5	7.5
27	10.0	7.0	4.5	3.0	---	---	4.0	3.5	5.5	5.0	8.5	7.0
28	10.0	7.0	4.5	3.5	---	---	4.0	3.5	5.5	4.5	8.0	5.5
29	8.5	6.5	5.0	4.0	---	---	4.5	4.0	---	---	8.5	6.5
30	9.5	6.0	5.0	4.0	---	---	5.0	4.0	---	---	6.5	6.0
31	9.5	6.0	---	---	---	---	---	---	---	---	6.5	6.0
MONTH	14.0	6.0	10.0	2.5	---	---	---	---	7.0	3.0	11.0	2.0

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

11394500 MIDDLE FORK FEATHER RIVER NEAR MERRIMAC, CALIF.

LOCATION.--Lat 39°42'30", long 121°16'10", in NW¼NE¼ sec.2, T.21 N., R.6 E., Butte County, Plumas National Forest, temperature recorder at gaging station, 400 ft (122 m) downstream from bridge on Milsap Bar Road, 500 ft (152 m) downstream from Little North Fork, 4.5 mi (7.2 km) southeast of Merrimac, and 20 mi (32 km) northeast of Oroville.
DRAINAGE AREA.--1,062 mi^2 (2,751 km^2).
PERIOD OF RECORD.--Chemical analyses: July 1963 to June 1966, May 1970 to September 1971, water year 1972 (partial-record station).
Water temperatures: October 1962 to current year.
Sediment records: Water years 1970-72 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 22.5°C Aug. 2, 4, 5; minimum, 1.5°C Jan. 2, 4-6.
Period of record:
Water temperatures: Maximum (1964 to current year), 24.0°C Aug. 3, 1966, July 17, 18, 1972; minimum (1962-64, 1965 to current year) 0.5°C on several days in 1966-68, 1970, and 1972.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.0	9.5	8.5	6.0	5.5	4.5	2.5	5.0	4.5	5.5	5.0
2	13.5	12.0	9.0	8.5	5.5	5.0	2.5	1.5	5.0	4.5	5.0	3.5
3	12.5	11.0	8.5	7.5	5.0	5.0	2.5	2.0	4.5	4.0	4.0	3.5
4	13.0	11.0	7.5	7.0	5.5	5.0	2.0	1.5	4.5	4.0	4.0	3.5
5	12.5	10.5	7.0	7.0	6.0	5.5	2.5	1.5	4.5	3.0	4.5	3.5
6	10.5	10.0	7.0	6.5	6.5	6.0	2.0	1.5	3.0	3.0	6.5	6.0
7	10.5	10.5	8.5	7.0	6.5	6.0	2.5	2.0	4.0	3.0	7.0	5.5
8	10.5	10.0	9.0	8.5	6.5	6.5	3.0	2.5	4.0	4.0	6.5	5.5
9	11.0	10.0	9.0	8.5	6.0	6.5	3.0	2.5	4.0	4.0	7.0	6.5
10	10.0	9.5	9.5	9.0	5.5	6.0	2.5	2.0	4.0	4.0	7.5	6.5
11	10.0	9.0	10.0	9.5	5.5	5.5	2.5	2.0	4.0	4.0	7.0	7.0
12	10.5	9.0	10.0	8.5	5.5	5.0	3.5	2.5	4.0	4.0	7.0	7.0
13	11.0	10.0	8.5	7.0	5.0	5.0	4.5	3.5	4.0	3.5	8.0	7.0
14	11.5	10.0	7.0	7.0	5.5	5.0	5.0	4.5	4.5	4.0	8.5	8.0
15	11.5	10.5	7.0	7.0	5.0	5.0	5.5	5.0	5.0	4.5	8.5	8.5
16	12.0	10.5	7.5	7.0	5.0	5.0	5.5	5.5	5.0	4.5	9.0	8.5
17	12.5	11.5	7.0	7.0	5.5	5.0	5.5	6.0	4.5	4.0	9.0	8.5
18	12.0	11.5	7.0	6.5	5.5	5.0	6.0	6.0	4.0	4.0	8.5	8.5
19	12.0	11.5	6.5	5.5	5.0	5.0	6.0	6.0	4.5	4.0	8.5	7.5
20	12.5	11.5	5.5	5.5	5.0	5.0	6.5	6.0	4.5	4.0	8.0	8.0
21	12.5	12.0	5.5	5.5	5.0	5.0	6.0	4.5	4.5	4.5	8.5	8.0
22	12.5	12.5	5.5	5.5	5.0	5.0	4.5	4.0	4.5	4.5	8.5	8.5
23	12.5	10.0	5.5	5.5	5.5	5.0	5.0	4.5	4.5	4.0	9.0	8.0
24	10.0	9.5	5.5	5.5	5.5	5.0	5.0	5.0	4.5	4.0	9.5	9.0
25	10.0	9.5	5.5	5.0	5.5	5.0	5.0	5.0	5.0	4.5	9.5	9.0
26	10.0	10.0	5.0	5.0	6.0	5.5	5.0	4.0	6.0	5.0	9.0	8.5
27	10.0	9.5	5.5	5.0	5.5	5.0	4.5	4.0	6.0	5.5	8.5	7.5
28	9.5	9.0	6.0	5.5	6.0	5.5	5.0	4.5	5.5	5.5	7.5	7.0
29	9.0	8.5	6.5	6.0	6.0	5.5	4.5	4.0	---	---	7.5	7.0
30	8.5	8.0	6.5	6.0	6.0	5.0	4.5	4.0	---	---	7.5	6.5
31	9.0	8.5	---	---	5.0	4.5	4.5	4.0	---	---	7.5	7.5
MONTH	14.5	8.0	10.0	5.0	6.5	4.5	6.5	1.5	6.0	3.0	9.5	3.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	6.5	11.0	10.0	13.0	12.5	20.0	19.0	22.0	21.0	19.0	18.0
2	8.0	7.0	11.0	10.0	13.0	12.5	20.0	19.0	22.5	21.0	19.0	17.5
3	8.0	7.0	10.5	9.5	13.0	13.0	19.0	18.5	22.0	21.0	19.0	17.5
4	8.5	7.0	10.5	10.0	13.5	12.0	19.0	18.5	22.5	21.5	19.0	17.5
5	8.5	8.0	11.0	10.0	13.0	12.5	19.0	18.5	22.5	21.5	19.0	17.5
6	9.0	8.0	11.0	10.0	13.5	13.0	19.0	18.0	22.0	21.0	18.5	17.0
7	9.0	8.0	11.5	10.0	13.5	12.5	18.5	17.5	22.0	20.5	19.0	17.0
8	9.0	8.5	11.5	10.5	13.0	12.0	17.5	15.0	21.0	20.0	19.0	17.5
9	8.5	7.5	11.0	10.0	14.0	13.0	15.5	15.0	21.0	20.0	18.5	17.0
10	8.0	7.0	10.5	9.5	14.5	14.0	15.0	14.5	21.0	19.5	18.5	17.0
11	9.0	8.0	10.5	9.5	15.0	14.5	15.0	14.0	21.0	19.5	18.0	17.0
12	9.0	8.5	10.5	10.0	15.0	14.5	16.0	15.0	21.0	19.5	17.5	16.0
13	8.5	8.0	10.0	9.0	15.5	14.5	17.0	15.5	20.0	19.5	17.0	15.5
14	9.0	8.0	10.0	9.0	16.0	15.5	18.0	17.0	19.0	18.0	16.5	15.0
15	9.0	8.5	10.5	10.0	16.0	15.5	18.0	17.5	19.0	17.5	16.5	15.0
16	9.0	8.0	10.0	9.5	15.5	14.0	18.0	17.0	19.0	17.5	17.0	15.0
17	9.0	8.5	9.5	7.5	14.5	13.5	18.0	16.5	19.0	17.5	16.5	15.0
18	9.0	7.0	8.0	7.0	15.0	14.0	19.0	17.5	19.0	17.5	17.0	15.0
19	8.0	6.5	8.0	7.5	15.0	14.0	20.0	18.5	19.0	17.5	17.0	15.5
20	8.5	7.5	9.0	8.0	14.5	13.0	20.0	19.0	18.5	17.0	17.0	15.5
21	9.0	8.0	10.5	9.0	17.0	14.5	20.5	19.0	19.0	17.0	17.0	15.5
22	9.5	9.0	11.5	10.5	18.0	16.0	20.5	19.0	19.0	17.5	17.5	16.0
23	9.0	7.0	12.0	11.5	17.5	17.0	21.0	19.5	19.5	18.0	17.0	16.0
24	7.0	7.0	12.0	11.5	17.0	16.0	21.0	20.0	20.0	18.5	17.0	16.0
25	7.5	7.0	12.5	12.0	16.5	15.0	21.5	20.5	20.0	18.5	17.0	16.0
26	8.0	7.5	13.0	12.5	16.0	15.0	22.0	21.0	20.0	18.5	17.0	16.0
27	8.5	7.5	12.5	12.0	16.0	14.5	22.0	21.5	20.0	18.5	16.5	15.5
28	10.0	8.5	12.5	12.0	17.0	15.5	22.0	21.0	19.5	18.0	15.5	14.5
29	10.5	10.0	12.0	11.5	18.5	17.0	21.5	20.5	19.0	18.0	15.0	14.0
30	10.5	10.0	11.5	11.0	19.5	18.5	21.5	20.5	19.0	17.5	15.0	14.0
31	---	---	12.5	11.5	---	---	22.0	20.5	19.0	18.0	---	---
MONTH	10.5	6.5	13.0	7.0	19.5	12.0	22.0	14.0	22.5	17.0	19.0	14.0

11401180 LITTLE GRIZZLY CREEK NEAR GENESEE, CALIF.

LOCATION.--Lat 40°00'50", long 120°45'11", in NE¼SW¼ sec.21, T.25 N., R.11 E., Plumas County, Plumas National Forest, temperature recorder at gaging station on right bank, 2.5 mi (4.0 km) upstream from Indian Creek, and 2 mi (3 km) south of Genesee.

DRAINAGE AREA.--29.6 mi² (76.7 km²).

PERIOD OF RECORD.--Water temperatures: August 1964 to current year.

EXTREMES.--Current year:
Water temperatures: Minimum, freezing point on several days during February.
Period of record:
Water temperatures: Maximum (1964-73), 21.5°C July 31, Aug. 1, 1973; minimum, freezing point on many days during winter period of most years.

REMARKS.--Recorder malfunction Feb. 23 to Apr. 24, June 3-19, July 14 to Aug. 13.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	6.5	6.0	4.0	5.0	4.0	4.5	3.0	4.0	2.5	---	---
2	8.0	4.5	4.0	2.0	4.5	3.0	3.0	2.0	3.0	1.0	---	---
3	7.5	4.0	3.0	1.0	4.0	3.0	3.0	2.0	2.5	1.0	---	---
4	7.5	4.0	2.0	0.5	4.0	2.5	3.0	1.5	3.5	1.5	---	---
5	8.0	4.0	3.0	1.0	4.5	3.0	3.0	2.0	2.5	1.0	---	---
6	8.5	5.5	5.5	3.0	4.5	3.5	3.0	2.0	1.5	0.5	---	---
7	8.0	6.5	6.5	4.5	4.5	3.5	4.0	2.5	2.0	0.5	---	---
8	7.5	6.0	6.0	4.5	4.5	3.0	4.0	2.0	2.5	0.5	---	---
9	7.5	5.0	6.5	4.5	4.0	3.0	3.0	2.0	2.5	1.0	---	---
10	6.0	3.5	7.5	6.0	3.5	2.5	2.5	2.0	2.5	0.5	---	---
11	7.0	3.5	7.5	7.0	4.0	3.0	3.5	2.0	2.5	0.5	---	---
12	7.5	4.5	7.0	5.0	4.5	3.0	5.0	3.5	2.5	1.5	---	---
13	8.5	5.5	5.5	3.0	4.0	2.0	5.0	4.0	2.0	0.5	---	---
14	9.0	6.5	4.5	3.5	5.0	3.0	6.0	4.5	3.0	1.0	---	---
15	9.0	6.5	5.0	3.5	4.0	3.0	6.5	5.5	3.5	1.0	---	---
16	8.5	6.0	5.5	4.5	4.5	3.0	6.5	5.5	2.5	0.5	---	---
17	8.5	5.5	5.5	3.5	5.0	4.0	7.0	5.5	1.5	0.0	---	---
18	8.0	5.5	5.0	4.0	4.5	3.5	6.0	5.0	3.0	1.0	---	---
19	8.5	5.5	4.0	3.0	4.0	3.0	6.5	5.0	2.5	0.5	---	---
20	9.0	7.0	3.5	2.5	5.0	3.5	6.0	5.0	5.0	0.0	---	---
21	9.5	8.0	3.5	2.5	5.0	4.0	4.5	3.0	1.5	0.0	---	---
22	8.0	5.5	3.5	2.5	5.0	3.5	4.5	2.5	1.5	0.0	---	---
23	6.0	4.5	3.5	2.0	5.0	4.0	5.0	3.0	---	---	---	---
24	6.5	3.5	3.0	2.0	4.5	3.5	4.5	3.0	---	---	---	---
25	6.5	4.5	3.0	2.0	5.0	3.5	4.5	3.0	---	---	---	---
26	5.5	3.5	2.5	1.0	5.5	4.0	4.0	2.5	---	---	---	---
27	5.5	3.5	4.0	2.0	6.0	5.0	4.5	2.0	---	---	---	---
28	5.5	3.5	4.0	2.5	6.5	5.5	4.0	2.5	---	---	---	---
29	4.0	2.5	5.0	3.5	6.5	5.5	3.5	2.0	---	---	---	---
30	4.5	2.0	4.5	4.0	6.0	4.0	3.5	2.0	---	---	---	---
31	5.5	3.0	---	---	5.0	4.0	3.5	2.5	---	---	---	---
MONTH	9.5	2.0	7.5	0.5	6.5	2.0	7.0	1.5	4.0	0.0	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	8.5	4.5	12.0	6.0	11.5	10.0	---	---	14.5	10.0
2	---	---	7.5	4.5	12.0	6.5	11.5	10.0	---	---	17.0	10.5
3	---	---	8.0	5.0	---	---	12.0	9.5	---	---	16.0	11.0
4	---	---	8.0	5.0	---	---	11.5	10.0	---	---	16.0	10.0
5	---	---	8.0	5.0	---	---	11.5	10.0	---	---	14.5	10.5
6	---	---	9.0	5.0	---	---	11.0	9.5	---	---	14.5	10.5
7	---	---	9.5	5.0	---	---	11.0	9.5	---	---	15.0	11.0
8	---	---	9.0	5.0	---	---	10.5	10.0	---	---	15.0	11.5
9	---	---	8.5	5.0	---	---	10.5	9.5	---	---	14.0	9.5
10	---	---	9.0	4.5	---	---	10.5	9.5	---	---	14.5	10.5
11	---	---	9.0	4.0	---	---	10.5	8.5	---	---	13.5	10.5
12	---	---	8.0	4.5	---	---	11.0	9.5	---	---	12.5	8.5
13	---	---	8.0	4.5	---	---	11.5	9.5	---	---	12.0	8.5
14	---	---	8.5	4.5	---	---	---	---	15.5	10.5	12.0	8.0
15	---	---	8.0	5.5	---	---	---	---	15.0	10.5	12.0	8.0
16	---	---	7.0	4.5	---	---	---	---	15.0	9.5	12.0	8.0
17	---	---	5.5	4.0	---	---	---	---	14.5	9.0	12.5	8.5
18	---	---	5.5	3.5	---	---	---	---	15.0	9.5	12.5	8.5
19	---	---	7.0	3.5	---	---	---	---	14.0	9.5	13.0	9.0
20	---	---	7.0	4.5	11.0	8.0	---	---	14.0	9.0	13.0	9.5
21	---	---	9.0	4.5	11.5	9.0	---	---	14.5	9.0	13.0	9.5
22	---	---	9.5	5.0	12.5	9.0	---	---	16.5	10.5	13.0	9.5
23	---	---	9.5	5.5	11.0	9.5	---	---	16.5	10.5	13.0	9.5
24	---	---	9.5	6.0	11.0	9.0	---	---	16.5	10.5	12.5	10.0
25	5.5	3.0	10.0	6.0	10.5	9.0	---	---	17.0	11.0	12.5	9.5
26	5.5	3.5	10.0	6.5	10.5	8.0	---	---	17.5	11.0	12.5	9.5
27	7.0	4.0	10.5	6.5	11.0	8.5	---	---	15.5	10.5	11.0	8.5
28	7.5	4.5	10.0	5.5	11.5	9.0	---	---	17.5	11.0	10.5	7.0
29	8.0	5.0	10.0	5.5	11.5	10.0	---	---	15.5	11.0	11.0	7.5
30	8.5	5.0	10.5	5.5	12.0	10.0	---	---	15.5	11.0	10.5	7.5
31	---	---	10.5	5.5	---	---	---	---	15.0	11.5	---	---
MONTH	---	---	10.5	3.5	---	---	---	---	---	---	17.0	7.0

11401500 INDIAN CREEK NEAR CRESCENT MILLS, CALIF.

LOCATION.--Lat 40°04'42", long 120°55'36", in SW¼SW¼ sec.25, T.26 N., R.9 E., Plumas County, temperature recorder at gaging station on left bank, 0.8 mi (1.3 km) upstream from Dixie Creek, and 1.5 mi (2.4 km) south of Crescent Mills.
DRAINAGE AREA.--739 mi^2 (1,914 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1951-58 (partial-record station), October 1958 to September 1963, water years 1964-66, 1972 (partial-record station).
Water temperatures: October 1962 to current year.
Sediment records: Water years 1957-66 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 25.0°C July 25, 26; minimum, freezing point Jan. 2.
Period of record:
Water temperatures (1962-65, 1966 to current year): Maximum, 28.0°C July 26-28, 1963; minimum (1962-64, 1966 to current year) freezing point on many days during most years.
REMARKS.--No record Oct. 1 to Nov. 13. Clock stopped Feb. 20 to Apr. 23, June 18-30, Aug. 4-14, Sept. 17-26; range in temperature, 1.5°C to 10.0°C, 13.0°C to 23.0°C, 16.0°C to 24.0°C, and 14.0°C to 20.5°C, respectively.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	3.0	2.0	2.5	0.5	5.5	3.5	---	---
2	---	---	---	---	5.0	3.0	1.0	0.0	4.5	2.5	---	---
3	---	---	---	---	5.0	3.0	1.5	1.0	4.5	2.0	---	---
4	---	---	---	---	4.0	3.5	1.0	0.0	5.5	2.5	---	---
5	---	---	---	---	5.0	3.5	1.5	1.0	4.5	2.5	---	---
6	---	---	---	---	6.5	5.0	1.5	1.0	4.5	1.5	---	---
7	---	---	---	---	7.0	5.5	2.5	1.0	5.0	2.0	---	---
8	---	---	---	---	6.0	5.0	2.5	0.5	5.5	2.5	---	---
9	---	---	---	---	5.5	4.0	2.5	1.0	5.5	3.0	---	---
10	---	---	---	---	4.5	3.5	2.0	1.0	5.0	3.0	---	---
11	---	---	---	---	4.0	3.5	1.5	1.0	5.0	3.0	---	---
12	---	---	---	---	5.0	3.5	3.5	1.5	4.0	2.5	---	---
13	---	---	---	---	4.5	3.5	4.5	2.5	5.5	3.5	---	---
14	---	---	7.5	4.5	5.5	4.0	4.5	3.5	6.0	3.5	---	---
15	---	---	6.5	5.5	5.0	3.5	4.5	4.0	6.0	4.0	---	---
16	---	---	7.5	6.0	5.0	3.5	4.5	4.5	6.0	4.0	---	---
17	---	---	7.0	5.0	5.5	4.5	5.0	4.5	5.5	3.0	---	---
18	---	---	5.5	4.5	4.5	3.5	5.5	4.5	4.5	3.5	---	---
19	---	---	5.0	3.5	4.0	2.5	5.5	5.5	6.5	3.5	---	---
20	---	---	5.0	3.5	4.0	3.0	5.5	5.0	---	---	---	---
21	---	---	6.0	4.5	4.5	4.0	5.0	3.5	---	---	---	---
22	---	---	5.5	4.0	5.0	4.0	4.0	2.0	---	---	---	---
23	---	---	6.0	5.0	5.0	4.5	4.5	3.0	---	---	---	---
24	---	---	6.0	5.0	5.0	4.5	4.5	3.0	---	---	---	---
25	---	---	5.5	4.5	5.0	4.0	4.5	3.0	---	---	---	---
26	---	---	5.5	4.5	5.0	4.0	4.0	3.0	---	---	---	---
27	---	---	6.5	5.0	5.0	4.5	3.5	2.0	---	---	---	---
28	---	---	6.0	4.5	5.5	4.5	4.5	2.5	---	---	---	---
29	---	---	6.0	5.0	5.5	4.0	4.5	2.5	---	---	---	---
30	---	---	6.0	3.0	4.0	3.0	4.5	2.0	---	---	---	---
31	---	---	---	---	3.0	2.5	3.5	3.0	---	---	---	---
MONTH	---	---	---	---	7.0	2.0	5.5	0.0	---	---	---	---

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

11404500 NORTH FORK FEATHER RIVER AT PULGA, CALIF.

LOCATION.--Lat 39°47'39", long 121°27'03", in SW¼NE¼ sec.6, T. 22 N., R.5 E., Butte County, Plumas National Forest, temperature recorder at gaging station on left bank between railroad and highway bridges, 0.5 mi (0.8 km) downstream from Flea Valley Creek and Pulga, and 1.5 mi (2.4 km) downstream from Poe Dam.
DRAINAGE AREA.--1,953 mi² (5,058 km²).
PERIOD OF RECORD.--Chemical analyses: July 1963 to June 1966, water year 1972 (partial-record station).
Water temperatures: October 1962 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 23.0°C Aug. 3-5; minimum recorded, 3.0°C Jan. 2.
Period of record:
Water temperatures: Maximum (1963-64, 1965-66, 1967 to current year), 24.0°C July 21, 22, 1971, Aug. 8-11, 1972; Aug. 1, 2, 1973; minimum (1963-65, 1966 to current year), 0.5°C Jan. 4, 1972.
REMARKS.--No record Jan. 7-31, July 29-31. Clock stopped June 26-30; range in temperature, 15.0°C to 19.5°C.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	15.5	13.0	11.0	7.0	5.5	4.5	3.5	5.5	5.0	6.5	6.0
2	17.5	15.0	12.0	11.0	6.5	5.5	4.0	3.0	5.5	5.0	6.0	4.5
3	17.0	14.0	12.5	11.0	7.0	6.5	4.5	4.0	5.5	5.0	5.0	4.5
4	17.0	14.0	11.5	10.5	8.0	6.5	4.0	3.5	5.0	5.0	5.5	5.0
5	16.5	14.0	11.0	10.5	8.5	7.5	4.0	3.5	5.5	5.0	6.0	5.5
6	15.5	14.0	11.0	10.5	8.5	7.0	4.0	3.5	5.5	5.0	6.5	6.0
7	15.0	14.0	12.0	9.5	9.0	7.5	---	---	6.5	4.5	7.0	6.5
8	15.0	14.0	11.5	10.0	9.0	7.5	---	---	7.0	4.5	6.5	5.5
9	15.5	13.5	12.0	10.0	8.5	7.5	---	---	7.0	5.0	8.0	6.0
10	15.0	13.0	11.0	10.0	7.5	7.0	---	---	7.0	5.5	8.5	6.5
11	15.5	13.0	11.0	11.0	7.5	6.5	---	---	7.0	5.5	8.5	7.5
12	16.0	13.5	11.0	10.0	6.5	6.5	---	---	7.0	6.0	7.5	6.5
13	16.0	13.5	10.0	8.5	6.5	6.0	---	---	6.5	5.5	7.0	6.5
14	16.0	14.0	9.0	8.0	6.5	6.5	---	---	7.0	6.0	7.5	7.0
15	16.0	14.0	8.5	8.0	7.0	6.5	---	---	7.5	6.0	8.0	7.5
16	16.0	14.0	8.5	8.5	7.5	6.5	---	---	7.5	6.5	8.0	7.5
17	16.5	14.5	8.5	8.0	7.5	6.5	---	---	6.5	5.5	8.0	7.5
18	16.0	14.0	8.5	7.5	7.0	6.5	---	---	6.5	6.0	8.5	7.5
19	16.0	14.0	7.5	7.0	6.5	6.0	---	---	7.5	6.5	8.5	7.5
20	16.0	15.0	7.0	6.5	7.0	6.0	---	---	7.0	5.5	8.0	7.5
21	15.5	15.0	7.5	6.5	7.0	6.5	---	---	6.5	6.0	8.5	7.5
22	15.5	14.5	7.5	7.0	8.0	7.0	---	---	7.0	6.0	8.5	8.0
23	14.5	13.5	8.0	7.0	7.5	7.0	---	---	7.0	5.0	8.5	8.5
24	14.0	12.5	8.0	7.5	7.5	7.0	---	---	7.5	5.5	9.0	8.5
25	13.5	12.0	7.5	7.5	8.0	7.5	---	---	7.5	5.5	9.0	8.5
26	13.5	11.5	7.5	7.0	8.0	7.5	---	---	7.5	7.0	9.0	8.0
27	14.0	12.0	8.0	7.5	7.5	7.0	---	---	7.5	6.5	8.5	7.5
28	14.0	12.0	8.5	7.5	7.5	6.0	---	---	7.5	6.5	7.5	7.0
29	13.0	11.0	8.5	7.5	6.5	6.0	---	---	---	---	8.0	7.5
30	13.5	11.0	8.5	7.0	6.5	5.0	---	---	---	---	7.5	7.0
31	13.5	11.5	---	---	5.0	4.5	---	---	---	---	7.5	7.0
MONTH	18.0	11.0	13.0	6.5	9.0	4.5	---	---	7.5	4.5	9.0	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.5	11.0	10.5	13.5	11.5	20.0	17.0	22.5	20.0	19.5	17.5
2	7.0	6.5	11.0	10.0	14.5	12.0	20.0	17.0	22.5	20.0	19.5	17.5
3	7.5	7.0	11.0	10.0	15.0	13.0	19.5	17.0	23.0	20.5	19.0	17.0
4	8.0	7.5	11.5	10.5	14.5	13.5	19.0	16.0	23.0	21.0	19.0	17.0
5	8.5	8.0	11.5	10.5	14.5	14.0	17.0	15.5	23.0	21.0	19.0	17.0
6	8.5	8.0	12.0	11.0	14.5	14.0	16.5	15.0	22.5	20.5	19.0	17.0
7	8.5	8.0	12.5	11.5	14.5	14.0	17.5	15.0	22.0	19.5	19.0	17.0
8	9.0	8.5	13.0	11.5	14.0	13.5	17.5	15.0	21.5	19.0	19.5	17.0
9	8.5	8.0	12.5	12.0	14.5	14.0	18.0	15.0	21.5	19.0	19.0	16.5
10	8.0	7.0	12.5	11.5	15.0	14.0	18.5	15.0	21.5	18.5	19.0	17.0
11	9.0	8.0	11.5	11.0	15.0	15.0	19.0	16.0	21.5	19.0	19.0	17.0
12	9.0	8.5	11.5	11.0	15.0	15.0	19.0	16.0	21.5	19.0	18.5	15.5
13	9.0	8.0	11.5	10.5	15.5	15.0	19.0	16.0	21.0	18.5	18.5	16.0
14	9.0	8.0	11.0	10.5	16.0	15.5	19.5	16.0	20.5	18.0	18.5	16.0
15	9.5	9.0	11.0	10.5	16.0	15.5	19.5	16.5	20.5	17.5	18.5	16.0
16	9.5	8.5	11.5	10.5	15.5	14.0	20.0	17.0	20.5	17.5	18.5	16.0
17	10.0	9.0	11.0	10.0	16.5	14.0	19.5	16.5	20.0	17.5	18.0	16.0
18	10.0	9.0	10.0	9.0	16.5	14.0	20.0	17.0	20.5	17.5	18.0	16.0
19	9.0	8.0	9.5	9.0	15.0	13.5	20.5	17.0	19.5	17.0	18.5	16.5
20	9.5	8.5	10.0	9.0	17.0	13.5	20.0	17.0	19.0	16.5	18.5	16.5
21	10.0	9.5	11.5	10.0	17.5	14.0	20.5	17.5	19.5	17.0	18.5	16.5
22	10.5	10.0	13.0	10.0	17.5	15.0	20.5	17.5	20.0	17.5	19.0	17.0
23	10.5	9.0	13.5	10.0	18.5	15.0	21.0	18.0	20.0	17.5	19.0	16.5
24	9.0	8.0	14.0	11.0	18.5	15.0	21.5	18.5	20.0	18.0	18.5	16.0
25	8.0	7.5	14.0	11.5	---	---	21.0	18.5	20.0	18.0	18.5	16.5
26	8.5	8.0	14.0	11.0	---	---	21.0	18.0	20.0	17.5	18.5	16.5
27	9.0	8.0	13.5	12.5	---	---	21.0	18.0	20.0	17.5	18.5	15.5
28	10.0	9.0	13.5	12.5	---	---	21.0	18.5	20.0	17.5	17.0	15.0
29	10.0	10.0	13.0	12.5	---	---	---	---	20.0	17.5	17.0	15.0
30	11.0	10.0	13.5	11.5	---	---	---	---	19.5	17.5	17.0	14.5
31	---	---	13.5	11.5	---	---	---	---	19.5	17.5	---	---
MONTH	11.0	6.5	14.0	9.0	18.5	11.5	21.5	15.0	23.0	16.5	19.5	14.5

11405300 WEST BRANCH FEATHER RIVER NEAR PARADISE, CALIF.

LOCATION.--Lat 39°47'12", long 121°33'42", in SE¼SE¼ sec.6, T.22 N., R.4 E., Butte County, temperature recorder at gaging station on right bank, 0.6 mi (1.0 km) upstream from Griffin Gulch, and 4.0 mi (6.4 km) northeast of Paradise.

DRAINAGE AREA.--110 mi^2 (285 km^2).

PERIOD OF RECORD.--Water temperatures: October 1962 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 29.5°C Aug. 4; minimum, 2.0°C Jan. 2.
Period of record:
Water temperatures: Maximum (1962-63, 1964-70, 1971 to current year), 30.5°C Aug. 18, 1967; minimum, 1.0°C on several days in 1965, 1972, and 1973.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	14.5	12.5	11.5	7.0	6.0	5.0	3.5	6.0	6.0	8.5	6.5
2	16.5	14.0	12.0	11.0	6.0	5.0	3.0	2.0	6.0	5.5	8.5	6.5
3	15.0	14.0	11.5	11.0	5.5	4.5	3.0	2.5	5.5	5.0	6.5	6.0
4	15.5	14.0	11.0	10.0	5.5	4.5	3.0	2.5	5.5	5.5	6.5	6.0
5	15.0	13.5	10.0	9.5	6.5	5.0	3.0	2.5	5.5	5.0	7.0	6.5
6	15.0	13.5	9.5	8.5	7.5	6.5	2.5	2.5	4.5	4.0	7.0	7.0
7	14.0	13.0	9.0	8.5	7.5	5.0	3.0	2.5	4.5	4.0	7.0	6.0
8	13.0	12.5	9.5	9.0	5.5	4.0	3.5	3.0	5.5	4.5	6.0	5.5
9	13.0	12.0	10.0	9.5	5.0	4.0	3.0	3.0	5.5	5.5	6.0	5.5
10	13.0	12.0	10.5	9.5	5.0	4.0	3.0	3.0	6.0	5.5	7.0	6.0
11	12.0	11.5	10.5	10.0	5.5	4.0	3.5	3.0	6.0	5.5	7.0	7.0
12	12.0	11.5	11.0	8.5	5.5	4.0	5.0	3.5	6.0	5.5	8.0	7.5
13	12.5	12.0	8.5	7.5	5.0	4.0	6.0	5.0	5.5	5.0	8.5	8.0
14	13.0	12.5	7.5	7.0	4.5	4.0	7.0	6.0	6.0	5.0	8.5	8.0
15	13.0	12.5	8.0	7.5	4.5	4.0	8.0	6.5	6.0	5.5	8.5	8.0
16	13.0	13.0	8.5	7.5	5.0	4.0	8.0	6.5	6.0	6.0	9.0	8.5
17	13.0	13.0	9.0	8.5	6.0	4.5	8.0	6.5	6.0	5.0	9.0	8.5
18	13.5	12.5	9.0	7.5	5.5	4.0	8.5	7.5	5.5	5.0	8.5	8.0
19	14.0	13.0	7.5	6.0	4.5	4.0	9.0	8.0	6.5	5.5	8.5	7.5
20	14.5	14.0	6.5	6.0	5.0	4.0	8.5	8.0	6.0	5.0	8.0	7.5
21	14.5	14.5	6.5	6.0	5.0	5.0	8.0	6.5	5.5	5.0	8.0	7.5
22	14.5	13.0	6.0	6.0	5.0	5.0	6.5	6.0	5.5	5.0	8.0	7.5
23	13.0	11.0	5.5	5.0	5.0	4.5	7.0	6.5	5.0	4.5	7.5	7.0
24	11.0	10.5	5.5	5.5	5.0	4.5	7.0	7.0	5.5	5.0	8.0	7.5
25	11.0	10.5	5.5	5.0	6.0	5.0	7.0	7.0	6.0	5.0	8.0	7.5
26	11.5	11.0	5.5	5.0	6.0	5.5	7.0	6.0	6.5	6.0	7.5	7.0
27	11.5	11.0	6.0	5.0	6.0	5.5	6.0	5.0	6.5	6.0	7.5	7.5
28	11.5	11.5	6.5	5.0	6.5	6.0	6.0	5.5	6.5	6.0	8.0	7.5
29	12.0	11.5	7.0	6.0	7.0	6.5	6.0	5.5	---	---	8.5	5.5
30	12.0	11.5	7.0	6.0	6.5	5.0	6.0	5.5	---	---	5.5	4.5
31	12.5	11.5	---	---	5.5	5.0	6.0	5.5	---	---	5.5	4.0
MONTH	16.5	10.5	12.5	5.0	7.5	4.0	9.0	2.0	6.5	4.0	9.0	4.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	4.5	9.0	8.0	11.5	10.0	18.5	17.5	28.5	22.0	26.0	19.0
2	6.0	4.0	9.0	7.0	12.0	10.5	18.5	17.5	29.0	21.5	26.5	19.0
3	6.5	4.5	8.5	7.0	12.0	11.0	18.5	17.5	28.5	22.0	26.5	19.0
4	7.0	5.0	8.5	7.0	12.0	11.0	18.5	17.5	29.5	22.0	26.5	19.0
5	7.0	6.0	9.0	7.5	12.0	11.0	18.5	17.5	27.5	23.5	24.5	17.5
6	7.0	5.5	9.5	7.5	12.0	11.0	18.5	18.0	29.0	21.0	24.0	17.0
7	7.5	5.0	10.0	7.5	12.0	11.0	18.5	17.5	28.5	21.5	24.5	17.5
8	7.0	6.0	10.0	8.0	11.5	10.5	18.0	14.0	29.0	20.5	24.0	17.5
9	6.5	5.0	10.0	7.5	12.0	11.0	14.0	12.5	27.5	21.5	24.0	17.0
10	6.5	4.0	9.0	7.0	13.0	11.5	14.0	13.0	27.0	21.0	24.0	18.5
11	8.0	5.5	9.0	7.0	13.0	12.5	14.5	13.0	27.5	21.0	24.0	18.0
12	8.0	6.5	9.0	7.5	13.5	12.5	15.0	14.0	25.0	21.0	23.0	16.5
13	7.5	5.5	8.5	7.0	14.0	12.5	16.0	14.5	23.0	20.5	23.5	16.5
14	8.0	6.0	8.5	7.0	14.0	13.0	17.0	15.5	23.5	19.5	22.0	16.0
15	8.0	6.5	8.5	8.0	14.0	13.0	17.5	16.5	24.0	19.0	22.5	15.5
16	8.0	6.0	8.0	7.0	13.5	11.5	17.5	17.0	25.0	18.0	22.0	15.0
17	8.5	7.0	7.5	5.5	12.0	10.5	18.0	17.0	25.5	17.5	22.5	15.5
18	8.5	6.0	5.5	4.5	13.0	12.0	18.5	17.5	25.5	18.0	22.5	15.0
19	7.0	5.0	6.5	5.0	13.0	11.5	21.5	18.0	25.5	18.0	22.5	15.5
20	8.0	6.0	8.0	6.0	12.0	10.5	22.0	18.5	26.0	17.5	23.5	15.0
21	8.5	6.5	8.5	7.0	14.5	12.0	22.5	19.0	26.0	18.0	23.0	16.5
22	8.5	7.5	9.5	8.0	15.5	14.0	23.0	19.0	26.5	19.0	22.5	17.0
23	8.5	5.5	9.5	8.5	15.5	14.5	23.5	19.0	27.0	19.5	21.5	16.5
24	5.5	4.0	10.0	9.0	15.5	14.0	24.5	20.0	25.5	21.0	22.0	17.0
25	5.5	4.0	11.0	9.5	14.5	13.5	25.0	20.5	26.5	20.0	21.5	17.0
26	5.5	5.0	11.5	10.0	14.0	13.0	26.5	21.5	27.0	19.5	21.5	17.0
27	7.0	4.5	11.5	10.0	14.5	13.0	27.0	22.0	27.0	19.5	21.5	15.0
28	8.0	6.5	11.5	9.5	15.5	14.0	27.5	21.5	26.0	19.0	19.5	14.5
29	9.0	7.0	10.5	9.0	17.0	14.0	27.5	21.0	25.5	19.5	19.5	14.5
30	9.0	8.0	10.5	9.0	18.0	16.5	28.0	21.0	25.5	19.0	19.5	14.0
31	---	---	11.0	9.5	---	---	27.5	22.0	26.5	19.5	---	---
MONTH	9.0	4.0	11.5	4.5	18.0	10.0	28.0	12.5	29.5	17.5	26.5	14.0

11406920 THERMALITO AFTERBAY RELEASE TO FEATHER RIVER NEAR OROVILLE, CALIF.

LOCATION.--Lat 39°27'23", long 121°38'10", in NW¼SE¼ sec.33, T.19 N., R.3 E., Butte County, temperature recorder on left bank of outlet channel, 955 ft (219 m) downstream from centerline of Thermalito Afterbay Dam, and 5.7 mi (9.2 km) southeast of Oroville.
PERIOD OF RECORD.--Water temperatures: May 1968 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 25.0°C June 30, July 1; minimum, 5.0°C Jan. 8.
Period of record:
Water temperatures: Maximum, 28.0°C July 13, 1970; minimum, 1.5°C Dec. 13, 1972.
REMARKS.--Temperature is listed only when water is released from Thermalito Afterbay. Because of the complete regulation of the Feather River below Oroville Dam, the temperature of the water released from Thermalito Afterbay affects the temperature of the Feather River downstream from the Oroville project. Records furnished by California Department of Water Resources.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.5	14.0	13.5	18.5	16.5	25.0	23.5	21.0	19.5	19.0	17.0
2	9.5	9.0	13.5	13.0	20.0	17.0	24.5	23.0	22.0	20.0	18.0	17.0
3	10.0	9.0	13.5	11.5	20.5	19.0	23.5	22.0	22.0	20.0	18.0	17.0
4	10.0	9.5	14.0	12.0	21.0	19.5	23.5	21.0	24.0	21.0	17.0	16.5
5	10.0	10.0	14.5	13.0	20.5	19.5	23.5	21.5	23.0	21.5	17.0	16.5
6	10.5	9.5	15.5	14.0	20.0	19.0	23.0	21.0	21.5	20.0	17.0	16.5
7	10.5	10.0	15.0	14.0	19.5	18.0	23.0	21.0	21.0	19.5	18.0	16.0
8	10.0	10.0	16.0	14.5	19.5	18.0	21.5	19.5	20.5	19.0	18.0	16.0
9	10.0	10.0	15.5	14.0	20.5	18.5	19.5	19.0	20.5	18.5	18.0	16.5
10	10.0	9.5	16.5	14.5	22.0	20.0	19.0	18.5	20.0	19.0	17.0	16.0
11	11.0	9.5	16.5	15.0	21.5	20.0	20.0	18.5	20.5	19.5	16.5	16.0
12	11.0	10.5	17.0	15.0	21.0	19.5	20.0	18.5	20.5	19.5	16.5	16.0
13	11.5	10.5	16.0	15.0	20.0	19.5	20.5	19.0	19.5	19.0	17.0	16.0
14	11.5	10.5	15.5	14.0	20.0	19.0	21.0	19.0	20.0	19.0	16.5	16.0
15	11.5	10.5	16.0	14.0	19.0	18.0	20.5	19.5	20.0	18.5	17.0	16.0
16	11.5	11.0	16.0	14.5	19.5	17.0	20.5	19.0	20.0	19.0	16.5	16.0
17	11.0	10.5	15.0	14.0	20.0	18.5	21.0	18.5	20.5	19.0	16.0	15.5
18	11.0	10.5	15.0	13.5	19.5	19.0	21.5	19.0	20.5	18.5	16.0	15.0
19	11.0	10.0	15.0	13.5	19.0	18.0	22.0	19.0	20.5	19.0	16.0	15.5
20	11.5	10.0	15.0	14.0	19.5	17.0	21.5	19.5	19.5	18.5	16.5	16.0
21	11.5	10.5	15.5	14.5	19.5	18.0	23.0	20.5	19.5	18.0	16.5	16.0
22	13.0	11.5	16.5	14.5	21.0	19.0	23.0	21.0	20.0	18.5	17.0	16.0
23	12.0	10.5	18.0	15.0	21.5	20.0	22.0	20.5	20.5	19.0	16.5	16.5
24	10.5	10.0	18.0	16.0	22.0	20.5	22.0	20.0	21.0	19.5	16.5	15.5
25	11.0	10.0	19.5	15.5	21.5	20.0	22.0	20.0	20.5	19.5	15.5	15.0
26	11.5	10.5	20.5	16.5	22.0	20.0	21.5	20.5	19.5	20.0	15.5	15.0
27	13.0	10.5	23.0	18.0	23.0	20.5	22.0	20.5	19.5	19.0	16.0	15.5
28	14.0	11.5	20.5	18.5	23.0	21.0	23.5	21.0	19.0	18.0	16.5	15.5
29	14.5	13.0	20.0	18.5	23.0	21.0	23.5	21.0	18.5	18.0	17.0	15.5
30	14.5	13.5	19.5	18.0	25.0	21.0	21.5	20.0	18.5	18.0	17.0	16.0
31	---	---	18.5	17.0	---	---	21.0	19.5	20.5	18.0	---	---
MONTH	14.5	8.5	23.0	11.5	25.0	16.5	25.0	18.5	24.0	18.0	19.0	15.0

11407000 FEATHER RIVER AT OROVILLE, CALIF.
(Irrigation network station)

LOCATION.--Lat 39°31'18", long 121°32'48", in Boga Fernandez Grant, T.19 N., R.4 E., Butte County, at gaging station on right bank, 300 ft (91 m) upstream from fish barrier dam on Feather River, and 0.8 mi (1.3 km) northeast of Oroville Post Office.

DRAINAGE AREA.--3,624 mi² (9,386 km²).

PERIOD OF RECORD.--Chemical analyses: January to December 1906, water years 1951-53 (partial-record station), October 1953 to current year.
Specific conductance: March 1972 to current year.
Water temperatures: October 1953 to September 1954, November 1956 to current year.
Sediment records: November 1956 to current year.

EXTREMES.--Current year:
Specific conductance: Maximum daily, 86 micromhos Nov. 12; minimum daily, 66 micromhos June 13, 14.
Water temperatures: Maximum, 17.0°C July 24, 25, Aug. 2; minimum, 6.5°C Feb. 27, Mar. 2, 3, 28, 29.
Sediment concentrations: Maximum daily, 16 mg/l Jan. 16; minimum daily, 1 mg/l on many days during October and August.
Sediment discharge: Maximum daily, 1,110 tons (1,010 tonnes) Apr. 3; minimum daily, 1.1 tons (1.0 tonnes) on many days during October and August.
Period of record (See REMARKS below):
Specific conductance (1972 to current year): Maximum daily, 94 micromhos Jan. 22, 1973; minimum daily, 66 micromhos June 13, 14, 1974.
Water temperatures (1956-67): Maximum, 27.0°C Sept. 10, 12, 1959; minimum, 1.5°C Dec. 27, 1959, Jan. 23-25, 1962.
Water temperatures (1968 to current year):: Maximum, 17.0°C on many days in 1971-73; minimum, 6.5°C on many days in 1971-73.
Sediment concentrations (1956-67): Maximum daily, 4,100 mg/l Feb. 1, 1963; minimum daily, 1 mg/l on many days in 1961-62, 1964.
Sediment concentrations (1967 to current year): Maximum daily, 310 mg/l Jan. 22, 1969; minimum daily, 1 mg/l on many days each year.
Sediment discharge ((1956-67): Maximum daily, 1,500,000 tons (1,360,000 tonnes) Feb. 1, 1963; minimum daily, 3 tons (2.7 tonnes) Jan. 16, 17, 1962.
Sediment discharge (1967 to current year): Maximum daily, 42,100 tons (38,200 tonnes) Jan. 22, 1969; minimum daily, 0.60 ton (0.54 tonne) Sept. 19, 1972.

REMARKS.--Water-temperature data for the gaging station are obtained from a thermograph located at fish hatchery near fish barrier dam. Chemical and sediment sampling point ranges from 0.2 to 1.5 mi (0.3 to 2.4 km) downstream from gaging station. Records of discharge and temperature data furnished by California Department of Water Resources and reviewed by Geological Survey. Extremes affected by construction of Oroville Dam in 1967 and are given for two separate periods--October 1956 to September 1967, and October 1967 to current year. Extremes for water temperatures are not included for 1968 water year (October 1967 to September 1968).

REVISIONS.--Revised figures of water discharge, in cubic feet per second, and suspended-sediment discharge, in tons per day, for water year 1966, superseding those published in Water Resources Data for California, Part 2. Water Quality Records, 1966, are given herewith:

SEPTEMBER 1966

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS)	DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	LOAD (TONS)
1	1650	9	40	16	1440	8	31
2	1780	8	38	17	1480	7	28
3	1630	8	35	18	1480	7	28
4	1550	7	29	19	1440	7	27
5	1550	7	29	20	1400	9	34
6	1520	9	37	21	1400	10	38
7	1480	11	44	22	1400	9	34
8	1440	12	47	23	1370	8	30
9	1320	12	43	24	1320	9	32
10	1320	11	39	25	1320	10	36
11	1320	8	29	26	1300	11	39
12	1300	8	28	27	1260	10	34
13	1260	8	27	28	1250	8	27
14	1320	8	29	29	1310	9	32
15	1430	8	31	30	1240	14	47
				31	--	--	--
				TOTAL	42280	--	1022

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1433820
TOTAL LOAD FOR YEAR (TONS) 58893

11407000 FEATHER RIVER AT OROVILLE, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	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)
OCT.												
02...	1230	405	8.0	3.1	3.5	.7	47	0	39	2.5	.8	.1
29...	1045	403	8.4	3.2	3.5	.9	48	0	39	2.9	.4	.0
DEC.												
03...	1550	409	7.8	3.3	3.3	1.0	44	0	36	3.2	1.3	.0
MAR.												
07...	1710	407	8.1	3.1	3.1	.7	39	0	32	2.4	2.0	.1
27...	0825	415	7.4	3.0	3.1	.8	41	0	34	3.1	1.0	.0
APR.												
30...	1130	423	9.0	3.0	2.9	.9	40	0	33	2.3	.9	.1
JUNE												
07...	0700	405	7.1	3.0	2.6	.7	40	0	33	2.1	1.3	.0
JULY												
01...	1045	404	6.8	3.0	3.1	.8	40	0	33	2.5	1.3	.2
AUG.												
20...	0600	408	7.6	3.7	3.8	.7	44	--	36	1.9	1.8	.0
SEP.												
05...	0815	409	7.4	3.6	4.0	.8	44	--	36	1.9	1.7	.0

DATE	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT.											
02...	.03	.02	51	.07	55.8	33	0	18	.3	79	14.0
29...	.03	.03	57	.08	62.0	34	0	18	.3	81	--
DEC.											
03...	.12	.02	57	.08	62.9	33	0	17	.3	79	10.0
MAR.											
07...	.16	.03	59	.08	64.8	33	1	17	.2	74	7.5
27...	.10	.00	46	.06	51.5	31	0	17	.2	74	9.0
APR.											
30...	.03	.01	53	.07	60.5	35	2	15	.2	72	10.0
JUNE											
07...	.16	.07	53	.07	58.0	30	0	15	.2	70	14.5
JULY											
01...	.35	.09	37	.05	40.4	29	0	18	.3	70	16.0
AUG.											
20...	.00	.00	50	.07	55.1	34	0	19	.3	75	15.0
SEP.											
05...	.00	.00	48	.07	53.0	33	0	20	.3	75	14.0

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	82	75	84	75	---	71	68	69	67	71	72
2	74	82	75	83	75	73	72	70	69	67	72	71
3	75	81	75	81	75	---	71	70	69	68	72	71
4	75	82	75	82	70	---	71	70	68	68	72	71
5	76	81	76	82	69	---	71	70	68	69	73	71
6	76	81	76	82	70	---	71	69	68	68	71	72
7	76	81	76	82	76	---	70	70	68	69	72	71
8	76	81	75	78	69	72	70	72	68	69	73	73
9	77	81	---	78	70	72	70	71	68	70	72	73
10	77	84	74	78	70	74	---	71	67	71	72	71
11	78	84	74	79	69	73	69	---	67	71	71	71
12	78	86	79	79	70	73	69	71	67	69	72	71
13	78	---	80	79	71	73	70	---	66	69	72	71
14	78	82	74	77	70	72	69	72	66	69	74	70
15	81	82	74	79	70	71	69	72	67	70	74	72
16	81	82	74	79	70	71	69	72	66	70	73	71
17	---	76	74	79	69	71	68	71	67	70	72	72
18	81	74	77	79	71	71	69	71	67	71	73	72
19	81	78	78	83	71	71	69	71	67	70	73	72
20	81	78	78	76	71	71	69	71	67	71	73	71
21	81	76	78	76	71	71	69	71	67	71	72	71
22	81	75	78	---	73	71	70	71	68	70	73	71
23	77	76	78	---	73	70	69	70	68	70	72	74
24	77	76	78	---	73	70	69	70	68	72	74	73
25	84	---	83	---	75	71	70	71	68	71	72	73
26	81	77	84	---	75	70	70	69	68	71	73	---
27	82	76	79	---	75	72	70	69	68	71	73	73
28	82	76	83	---	74	72	70	69	69	71	74	74
29	80	76	84	---	---	72	70	69	68	72	74	74
30	80	77	82	---	---	73	68	69	68	72	74	74
31	80	---	82	---	---	70	---	69	---	70	74	---
MONTH	79	79	78	---	72	72	70	70	68	70	73	72

11407000 FEATHER RIVER AT OROVILLE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.0	9.0	8.5	13.0	12.0	16.0	15.0	16.5	16.0	13.5	13.0
2	8.5	8.0	9.5	8.5	12.0	12.0	16.0	15.0	17.0	16.0	14.0	13.0
3	9.0	8.5	9.0	8.5	13.0	11.5	16.5	16.0	16.0	15.0	13.5	13.0
4	9.0	9.0	9.5	9.0	13.0	12.0	16.0	15.5	16.0	15.0	14.0	13.5
5	9.0	9.0	10.0	9.5	14.0	12.0	16.5	15.5	16.5	15.0	14.0	13.0
6	9.0	8.5	10.5	9.5	14.0	13.5	16.5	16.0	16.5	14.5	13.0	11.5
7	9.5	8.5	11.5	10.0	14.0	13.5	16.5	15.0	15.0	14.0	13.0	12.0
8	9.5	9.0	12.0	11.5	14.5	14.0	16.0	15.5	15.0	14.5	12.0	12.0
9	9.0	8.5	12.0	11.5	14.5	13.0	15.5	15.0	15.0	14.5	13.0	12.0
10	9.0	8.5	12.0	11.0	14.5	13.0	15.5	15.0	15.0	15.0	13.5	12.0
11	9.5	9.0	13.0	11.5	13.5	13.0	16.0	15.0	15.5	15.0	14.5	13.0
12	9.5	9.5	12.0	11.5	13.5	13.0	16.0	15.5	16.0	15.5	13.5	11.5
13	9.5	9.0	12.0	11.5	13.5	13.0	15.5	15.0	16.0	15.5	12.0	11.0
14	9.5	9.5	13.0	11.5	14.0	13.0	15.5	15.0	16.0	15.5	12.0	12.0
15	9.5	9.0	11.5	11.0	14.5	14.0	15.5	15.0	16.5	15.0	13.0	12.0
16	9.5	9.0	11.5	11.5	14.5	14.0	15.5	15.0	15.0	14.5	13.0	11.5
17	9.5	9.0	11.5	10.5	14.5	14.5	16.0	15.0	15.0	14.5	13.5	13.0
18	9.5	8.5	11.5	10.5	14.5	14.0	16.0	15.5	15.0	14.5	13.5	12.0
19	9.5	8.5	12.0	11.5	14.5	14.0	16.0	15.5	15.0	14.0	13.5	12.0
20	10.0	9.5	12.0	11.0	15.5	14.5	16.0	15.5	16.0	15.0	12.0	11.5
21	10.0	10.0	12.0	11.5	15.5	15.0	16.0	15.5	16.0	15.5	12.0	11.5
22	10.0	9.5	12.0	11.5	15.5	15.0	16.0	16.0	16.5	15.5	12.0	11.5
23	9.5	9.0	12.0	11.5	15.5	15.0	16.5	16.0	16.0	15.0	13.0	12.0
24	9.5	9.0	13.0	11.5	15.5	15.0	17.0	16.0	15.0	14.5	13.0	11.5
25	10.0	9.5	13.0	12.0	15.5	15.0	17.0	15.5	15.5	14.5	13.5	11.5
26	10.0	9.5	13.5	12.0	15.5	15.0	15.5	15.5	15.5	14.5	13.5	13.0
27	10.0	9.5	13.0	11.5	15.5	15.0	15.5	15.5	15.0	14.5	13.5	13.5
28	10.5	10.0	13.5	11.5	15.5	15.5	16.0	15.5	15.0	14.5	13.5	12.0
29	10.5	10.0	12.0	11.5	16.0	15.5	16.5	15.5	15.0	13.5	13.0	11.5
30	10.0	9.0	13.0	12.0	16.0	15.5	16.5	16.0	13.5	12.0	12.0	11.0
31	---	---	13.0	12.0	---	---	16.5	16.0	13.5	13.0	---	---
MONTH	10.5	8.0	13.5	8.5	16.0	11.5	17.0	15.0	17.0	12.0	14.5	11.0

11407000 FEATHER RIVER AT OROVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	405	2	2.2	411	2	2.2	424	7	8.0
2	410	2	2.2	412	2	2.2	413	6	6.7
3	404	2	2.2	410	2	2.2	409	5	5.5
4	410	3	3.3	408	2	2.2	409	4	4.4
5	409	3	3.3	411	2	2.2	411	4	4.4
6	407	2	2.2	410	2	2.2	412	4	4.4
7	409	2	2.2	410	2	2.2	410	4	4.4
8	409	1	1.1	410	3	3.3	411	4	4.4
9	408	1	1.1	415	4	4.5	413	4	4.5
10	406	1	1.1	413	3	3.3	410	3	3.3
11	407	1	1.1	425	2	2.3	404	3	3.3
12	408	1	1.1	425	2	2.3	402	3	3.3
13	407	1	1.1	433	3	3.5	410	3	3.3
14	405	1	1.1	427	4	4.6	410	3	3.3
15	407	1	1.1	423	5	5.7	408	3	3.3
16	406	1	1.1	2200	9	76	411	3	3.3
17	407	1	1.1	8890	14	336	412	4	4.4
18	406	1	1.1	8810	11	262	411	3	3.3
19	407	1	1.1	5430	6	88	411	2	2.2
20	407	1	1.1	5450	6	88	411	2	2.2
21	406	1	1.1	5400	6	87	408	3	3.3
22	407	1	1.1	5430	6	88	405	2	2.2
23	408	1	1.1	5400	6	87	407	2	2.2
24	411	2	2.2	5430	6	88	406	2	2.2
25	416	2	2.2	5380	5	73	409	3	3.3
26	414	2	2.2	2310	5	31	419	3	3.4
27	406	2	2.2	412	5	5.6	426	3	3.5
28	405	2	2.2	415	4	4.5	417	3	3.4
29	403	2	2.2	414	6	6.7	410	2	2.2
30	401	2	2.2	430	8	9.3	413	2	2.2
31	408	2	2.2	---	---	---	412	2	2.2
MONTH	12629	---	52.8	68044	---	1375.0	12744	---	112.0

	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	400	2	2.2	406	6	6.6	420	6	6.8
2	402	2	2.2	403	7	7.6	408	5	5.5
3	406	3	3.3	405	7	7.7	405	5	5.5
4	409	2	2.2	405	7	7.7	402	5	5.4
5	400	2	2.2	405	6	6.6	400	5	5.4
6	405	2	2.2	407	6	6.6	400	6	6.5
7	432	2	2.3	405	7	7.7	407	5	5.5
8	423	2	2.3	406	8	8.8	405	6	6.6
9	414	2	2.2	406	8	8.8	402	7	7.6
10	415	3	3.4	402	8	8.7	403	8	8.7
11	416	3	3.4	405	8	8.7	406	9	9.9
12	415	4	4.5	406	8	8.8	405	8	8.7
13	409	4	4.4	410	8	8.9	400	7	7.6
14	429	8	9.3	409	7	7.7	403	8	8.7
15	2460	8	54	409	6	6.6	402	9	9.8
16	12400	16	641	410	7	7.7	396	8	8.6
17	28900	13	1010	409	8	8.8	394	8	8.5
18	32700	9	795	408	6	6.6	392	8	8.5
19	29800	5	402	413	5	5.6	390	8	8.4
20	29800	5	402	416	4	4.5	390	6	6.3
21	29500	6	478	413	4	4.5	388	5	5.2
22	23200	7	438	417	4	4.5	390	5	5.3
23	16900	8	365	413	5	5.6	407	6	6.6
24	14500	8	313	412	4	4.4	414	7	7.8
25	14500	6	235	412	4	4.4	406	8	8.8
26	8180	6	133	415	4	4.5	406	9	9.9
27	3280	6	53	417	7	7.9	408	5	5.5
28	428	5	5.8	425	9	10	406	4	4.4
29	400	6	6.5	---	---	---	5240	12	249
30	402	7	7.6	---	---	---	22700	11	674
31	404	7	7.6	---	---	---	26300	9	639
MONTH	253529	---	5392.6	11469	---	196.5	65495	---	1764.0

11407000 FEATHER RIVER AT OROVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	31400	11	933	423	9	10	403	3	3.3
2	37300	10	1010	423	8	9.1	400	3	3.2
3	37300	11	1110	421	7	8.0	401	3	3.2
4	33700	10	910	421	7	8.0	398	3	3.2
5	17200	8	372	430	8	9.3	397	3	3.2
6	12500	8	270	422	7	8.0	401	3	3.2
7	9900	8	214	419	6	6.8	405	3	3.3
8	7460	8	161	423	5	5.7	404	4	4.4
9	5800	8	125	422	4	4.6	404	5	5.5
10	1840	8	40	422	5	5.7	407	6	6.6
11	403	8	8.7	423	7	8.0	406	5	5.5
12	403	9	9.8	423	6	6.9	407	4	4.4
13	400	8	8.6	432	5	5.8	415	3	3.4
14	399	8	8.6	431	4	4.7	410	3	3.3
15	405	8	8.7	422	4	4.6	408	3	3.3
16	410	8	8.9	422	4	4.6	409	2	2.2
17	410	7	7.7	413	4	4.5	401	2	2.2
18	412	7	7.8	413	4	4.5	406	2	2.2
19	411	6	6.7	413	4	4.5	415	3	3.4
20	409	7	7.7	413	4	4.5	409	3	3.3
21	411	8	8.9	414	4	4.5	403	3	3.3
22	410	8	8.9	413	4	4.5	402	3	3.3
23	414	8	8.9	404	3	3.3	405	3	3.3
24	413	6	6.7	404	3	3.3	404	2	2.2
25	417	5	5.6	405	4	4.4	408	2	2.2
26	420	4	4.5	405	4	4.4	408	3	3.3
27	417	3	3.4	404	3	3.3	408	3	3.3
28	415	4	4.5	405	2	2.2	407	4	4.4
29	412	5	5.6	405	2	2.2	403	3	3.3
30	415	7	7.8	406	3	3.3	400	2	2.2
31	---	---	---	406	3	3.3	---	---	---
MONTH	202606	---	5293.0	12902	---	166.5	12154	---	103.1

	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	404	2	2.2	413	3	3.3	413	2	2.2
2	408	2	2.2	411	4	4.4	409	2	2.2
3	413	3	3.3	415	3	3.4	411	2	2.2
4	409	2	2.2	418	2	2.3	413	3	3.3
5	412	2	2.2	418	2	2.3	409	4	4.4
6	411	2	2.2	411	2	2.2	412	5	5.6
7	414	3	3.4	416	3	3.4	411	5	5.5
8	415	4	4.5	415	2	2.2	414	5	5.6
9	412	4	4.5	410	2	2.2	412	5	5.6
10	413	4	4.5	406	3	3.3	411	5	5.5
11	412	5	5.6	407	5	5.5	405	4	4.4
12	410	4	4.4	408	7	7.7	410	3	3.3
13	411	4	4.4	408	5	5.5	412	3	3.3
14	411	5	5.5	409	4	4.4	408	4	4.4
15	411	6	6.7	408	4	4.4	411	4	4.4
16	413	4	4.5	408	5	5.5	411	4	4.4
17	414	2	2.2	404	3	3.3	409	3	3.3
18	415	2	2.2	409	2	2.2	410	2	2.2
19	408	2	2.2	412	2	2.2	409	2	2.2
20	406	2	2.2	408	2	2.2	411	3	3.3
21	413	2	2.2	407	1	1.1	409	2	2.2
22	412	2	2.2	406	1	1.1	406	2	2.2
23	411	2	2.2	400	1	1.1	410	2	2.2
24	409	3	3.3	408	2	2.2	411	2	2.2
25	413	3	3.3	405	1	1.1	413	3	3.3
26	418	4	4.5	410	1	1.1	411	2	2.2
27	418	5	5.6	410	1	1.1	409	2	2.2
28	414	6	6.7	413	1	1.1	407	3	3.3
29	418	4	4.5	410	1	1.1	408	4	4.4
30	425	3	3.4	411	2	2.2	412	3	3.3
31	417	3	3.4	406	2	2.2	---	---	---
MONTH	12790	---	112.4	12700	---	87.3	12307	---	104.8
YEAR	689369		14760.0						

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.

LOCATION.--Lat 39°22'00", long 121°38'46", in Boga Fernandez Grant, T.18 N., R.3 E., Butte County, at gaging station on right bank, 300 ft (91 m) upstream from highway bridge, and 2.7 mi (4.3 km) east of Gridley.

DRAINAGE AREA.--3,676 mi^2 (9,521 km^2).

PERIOD OF RECORD.--Water temperatures: October 1964 to current year.
Sediment records: October 1964 to current year.

EXTREMES.--Current year:
Water temperatures, Maximum, 24.0°C July 1; minimum recorded, 6.5°C on several days during January and February.
Sediment concentrations: Maximum daily, 34 mg/l Apr. 29; minimum daily, 3 mg/l Sept. 16, 17.
Sediment discharge: Maximum daily, 3,930 tons (3,570 tonnes) Jan. 19; minimum daily, 30 tons (27 tonnes) Oct. 26, Nov. 2-4.
Period of record:
Water temperatures (1964-69, 1970 to current year): Maximum (1972 to current year), 24.0°C July 31, 1973, July 1, 1974; minimum, 4.0°C on several days in December and January of most years.
Sediment concentrations: Maximum daily, 1,340 mg/l Dec. 25, 1964; minimum daily, 1 mg/l Dec. 12, 1968, Dec. 4, 1969, Sept. 1, 1970, Dec. 14, 1971.
Sediment discharge: Maximum daily, 527,000 tons (478,000 tonnes) Dec. 23, 1964; minimum daily, 1.4 tons (1.3 tonnes) Oct. 27, 1966.

REMARKS.--Temperature records furnished by California Department of Water Resources. No record Dec. 24 to Jan. 11, May 19 to June 21.

REVISIONS.--WRD Calif. 1973: 1966, sediment. Revised figures of water discharge, in cubic feet per second, and sediment discharge, in tons per day, for water year 1965, superseding those published in "Water Resources Data of California, Part 2, Water Quality Records, 1965" are given herewith: Dec. 21, water discharge, 28,000 ft^3/s, sediment discharge, 111,000 tons; Dec. 22, water discharge, 112,000 ft^3/s, sediment discharge, 345,000 tons; Dec. 25, water discharge, 97,500 ft^3/s; sediment discharge, 353,000 tons; total for December 1964, water discharge, 833,750 ft^3/s; sediment discharge, 2,243,553 tons; totals for water year 1964-65, water discharge, 2,878,455 ft^3/s; sediment discharge, 2,997,928 tons.
Revised figures of sediment discharge, in tons per day for water years 1970, 1971, and 1973, superseding those published in "Water Resources Data for California, Part 2, Water Quality Records, 1970, 1971, 1973 are given herewith:

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DECEMBER

MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
3270	4	35
3430	3	28
3420	2	18
3410	1	9.2
3410	2	18
3400	2	18
3640	2	20
3840	3	31
3910	4	42
4060	4	44
4720	6	76
5220	8	113
5700	18	277
5960	18	290
6000	13	211
6030	7	114
6030	8	130
6050	11	180
6170	4	67
6220	6	101
6290	7	119
6040	10	163
5510	10	149
11700	149	4900
22400	138	8350
22300	74	4460
22200	50	3000
22100	16	955
22100	10	597
21400	36	2080
18300	24	1190
274230	---	27785.2

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

	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	14800	22	879	20500	36	1990	10600	17	487
2	14000	7	265	16100	30	1300	13500	23	838
3	12800	11	380	12000	22	713	13500	22	802
4	11600	14	438	9470	22	563	13600	13	477
5	8580	9	208	9020	17	414	13600	10	367
6	4230	6	69	8890	17	408	13600	12	441
7	4190	8	91	8800	14	333	13600	11	404
8	4160	12	135	8770	13	308	13700	17	629
9	4170	10	113	8740	14	330	14000	14	529
10	5900	9	143	8690	13	305	14400	19	739
11	9950	13	349	8810	14	333	14400	22	855
12	11500	13	404	9120	14	345	14400	24	933
13	16500	58	2890	9610	24	623	12800	14	484
14	43600	138	15700	11100	30	899	12100	18	588
15	57900	88	13800	12400	24	804	12300	19	631
16	65600	101	17900	12600	25	850	10200	18	496
17	69500	85	16000	13300	20	718	9080	17	417
18	68300	79	14600	13200	19	677	9220	17	423
19	66300	66	11800	13200	17	606	9300	19	477
20	57400	34	5270	13200	20	713	5670	12	184
21	40000	33	3560	13300	22	790	2970	12	96
22	47100	59	7500	13300	17	610	2650	8	57
23	59900	75	12100	13400	17	615	2420	8	52
24	67900	81	14800	13200	17	606	2160	10	58
25	70600	97	18500	12500	14	472	2010	10	54
26	71800	99	19200	9300	16	402	2020	10	55
27	70800	79	15100	9260	14	350	2230	8	48
28	62900	44	7470	9310	14	352	2410	14	91
29	54600	35	5160	---	---	---	2590	12	84
30	47500	31	3980	---	---	---	2770	12	90
31	29600	31	2480	---	---	---	2980	10	80
MONTH	1173680	---	211284	321090	---	17429	270780	---	11966
YEAR	2707630		280342.2						

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	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	3110	4	34	3070	7	58	2880	9	70
2	3090	5	42	3290	8	71	3530	10	95
3	3030	6	49	3080	9	75	4420	13	155
4	3030	5	41	3300	10	89	5590	18	272
5	3030	4	33	3730	8	81	6280	12	203
6	3050	5	41	3220	7	61	6330	13	222
7	3030	6	49	3120	6	51	6600	15	267
8	3050	6	49	3080	5	42	7250	11	215
9	3040	6	49	3110	5	42	7210	12	234
10	3020	6	49	3090	5	42	7530	18	366
11	3060	5	41	3120	5	42	8130	13	285
12	3050	5	41	3090	5	42	8110	13	285
13	3050	5	41	3090	5	42	8100	22	481
14	3040	5	41	3110	5	42	8110	16	350
15	3060	6	50	3080	5	42	8150	16	352
16	3050	6	49	3110	5	42	8170	26	574
17	3050	5	41	3090	5	42	8140	14	308
18	3040	6	49	3080	5	42	7770	8	168
19	3040	8	66	3070	5	41	6690	8	145
20	3090	7	58	3090	6	50	5760	5	78
21	3080	6	50	3090	6	50	4800	6	78
22	3080	7	58	3090	6	50	5370	7	101
23	3110	7	59	3010	6	49	7080	7	134
24	3070	7	58	2720	6	44	6340	7	120
25	3060	6	50	2710	6	44	6140	6	99
26	3050	7	58	2670	6	43	6120	7	116
27	3060	8	66	2720	7	51	6120	4	66
28	3060	7	58	2830	10	76	6160	10	166
29	3090	6	50	2900	10	78	6180	8	133
30	3100	5	42	2820	9	69	6270	9	152
31	3070	6	50	---	---	---	6620	8	143
MONTH	94840	---	1512	91580	---	1593	201950	---	6433

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	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	6590	6	107	2620	8	57	1770	6	29
2	6850	4	74	2410	11	72	1800	9	44
3	6930	4	75	2150	12	70	1840	7	35
4	6660	3	54	2010	12	65	1830	6	30
5	6230	8	135	1980	16	86	1800	11	53
6	5940	7	112	1890	11	56	1820	10	49
7	5640	8	122	1830	6	30	1800	9	44
8	5390	7	102	1820	6	29	2420	9	59
9	5010	4	54	1830	7	35	3380	10	91
10	4870	7	92	1830	6	30	4850	9	118
11	4890	13	172	1840	6	30	5930	24	384
12	6650	10	180	1820	6	29	7020	19	360
13	7410	6	120	1810	6	29	10500	54	1530
14	7430	4	80	1800	5	24	13000	17	597
15	8910	4	96	1800	6	29	13500	10	364
16	10800	6	175	1800	7	34	13600	8	294
17	10900	6	177	1810	6	29	13600	8	294
18	11100	7	210	1780	6	29	13600	7	257
19	13500	7	255	1820	7	34	13500	14	510
20	15000	8	324	1780	9	43	13500	8	292
21	14900	6	241	1790	11	53	13500	10	364
22	14000	10	378	1800	11	53	13200	10	356
23	11800	10	319	1810	6	29	12400	20	670
24	10200	9	248	1820	6	29	12300	10	332
25	9210	14	348	1790	6	29	13600	11	404
26	8170	10	221	1790	4	19	16800	46	2090
27	7170	12	232	1820	4	20	23800	21	1350
28	6240	9	152	1790	7	34	24000	30	1940
29	5290	11	157	---	---	---	24100	17	1110
30	4190	14	158	---	---	---	23400	26	1640
31	3230	6	52	---	---	---	20500	26	1440
MONTH	251100	---	5222	52840	---	1106	338660	---	17130

	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	17500	16	756	6560	9	159	9720	12	315
2	17300	19	887	6490	8	140	9680	19	497
3	14400	10	389	6560	7	124	9880	14	373
4	10000	10	270	6540	8	141	9920	18	482
5	9650	11	287	6510	7	123	9890	16	427
6	9780	12	317	6470	6	105	9870	27	720
7	10200	12	330	6460	7	122	9650	26	677
8	10600	13	372	6440	4	70	8780	16	379
9	10600	13	372	6360	3	52	7930	27	578
10	10600	11	315	6990	4	75	7530	22	447
11	10500	10	283	7060	8	152	7310	22	434
12	10800	11	321	7090	6	115	6610	11	196
13	11400	7	215	7090	8	153	6540	18	318
14	11400	7	215	7090	3	57	6580	15	266
15	11400	22	677	7050	12	228	6600	13	232
16	11400	13	400	7020	18	341	6540	19	336
17	11400	17	523	7060	11	210	6340	18	308
18	11300	14	427	6820	11	203	5360	8	116
19	11400	12	369	5920	11	176	4480	9	109
20	11000	11	327	5250	24	340	3440	10	93
21	10000	12	324	4830	22	287	3220	12	104
22	9140	10	247	4690	16	203	3910	9	95
23	8130	8	176	4640	14	175	4260	12	138
24	7430	9	181	4690	8	101	4310	19	221
25	7420	7	140	4720	11	140	4280	8	92
26	7520	6	122	4890	11	145	4320	10	117
27	7500	6	121	5730	8	124	4280	12	139
28	7500	6	121	7410	8	160	4290	8	93
29	6740	7	127	9220	16	398	4920	9	120
30	6590	8	142	9660	12	313	5290	9	129
31	---	---	---	9750	14	369	---	---	---
MONTH	310600	---	9753	203060	---	5501	195730	---	8551

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	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	5290	6	86	4540	10	123	7640	5	103
2	5290	10	143	4570	8	99	7590	6	123
3	5330	4	58	4580	7	87	7560	6	122
4	5350	6	87	4580	7	87	7540	6	122
5	5320	8	115	4590	7	87	7470	6	121
6	5410	8	117	4580	7	87	7520	5	102
7	5040	7	95	4590	6	74	7520	5	102
8	4570	6	74	4580	6	74	7540	6	122
9	4460	9	108	4580	5	62	7630	8	165
10	4460	9	108	5260	6	85	7610	7	144
11	4420	6	72	6390	7	121	7500	5	101
12	4480	7	85	7420	8	160	7440	4	80
13	4500	5	61	7910	8	171	7670	5	104
14	4500	11	134	7920	7	150	8570	6	139
15	4520	11	134	7840	5	106	9640	7	182
16	4520	6	73	7920	5	107	9830	8	212
17	4500	5	61	7950	5	107	8910	10	241
18	4500	7	85	6020	4	65	7860	11	233
19	4540	10	123	7870	4	85	7440	8	161
20	4580	5	62	7890	4	85	7490	6	121
21	4630	2	25	7850	5	106	7530	6	122
22	4670	8	101	7780	5	105	7350	7	139
23	4640	7	88	7770	6	126	6830	9	166
24	4600	7	87	7750	5	105	6330	12	205
25	4590	6	74	7740	5	104	5780	10	156
26	4640	6	75	7710	4	83	5190	9	126
27	4630	6	75	7720	4	83	4750	8	103
28	4600	6	75	7650	4	83	4330	7	82
29	4620	7	87	7560	5	102	3860	7	73
30	4600	7	87	7580	5	102	3350	8	72
31	4560	9	111	7650	5	103	---	---	---
MONTH	146360	---	2766	206340	---	3124	213270	---	4044
YEAR	2306330		66735.0						

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	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	2890	12	94	8760	10	237	17100	10	462
2	2890	13	101	8780	12	284	16900	13	593
3	3110	12	101	8720	16	377	16300	7	308
4	3970	12	129	8750	18	425	15800	7	299
5	4200	11	125	9060	17	416	15500	8	335
6	4620	10	125	9930	16	429	15500	10	418
7	6080	12	197	10100	13	355	15800	10	427
8	7290	12	236	10000	9	243	15800	8	341
9	7960	10	215	10900	8	235	15200	7	287
10	7840	10	212	11500	9	279	12100	11	359
11	7810	10	211	14700	10	397	10500	14	397
12	11700	12	379	15000	12	486	7010	14	265
13	18500	12	599	14300	11	425	4510	11	134
14	18000	12	583	12300	8	266	3540	11	105
15	17900	10	483	10900	8	235	2920	8	63
16	26800	28	2030	10800	8	233	2690	7	51
17	45300	74	9050	10700	6	173	2510	11	75
18	45200	59	7200	10600	6	172	2270	12	74
19	42800	51	5890	10700	6	173	2250	7	43
20	28100	23	1750	8880	8	192	2470	4	27
21	17300	14	654	6340	6	103	4720	6	76
22	11400	13	400	6050	7	114	9500	10	256
23	8120	10	219	4990	7	94	8110	6	131
24	7200	8	156	4070	7	77	4860	7	92
25	7100	7	134	3110	6	50	3980	8	86
26	6970	6	113	3360	7	64	3420	9	83
27	6790	6	110	11600	12	376	2610	8	56
28	6610	7	125	17400	19	893	2460	11	73
29	6840	7	129	---	---	---	2280	11	68
30	7680	6	124	---	---	---	2120	11	63
31	8020	9	195	---	---	---	1960	11	58
MONTH	406990	---	32069	272300	---	7803	242690	---	6105

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

SUSPENDED-SEDIMENT DICHARGE (TONS/DAY), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	APRIL			MAY		
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	1900	11	56	2990	19	153
2	1890	12	61	2980	17	137
3	1840	11	55	2990	13	105
4	1740	9	42	3000	13	105
5	1660	11	49	2960	14	112
6	1490	12	48	2960	15	120
7	1350	12	44	2960	13	104
8	1320	13	46	2970	11	88
9	1310	13	46	2960	10	80
10	1310	13	46	2940	9	71
11	1310	12	42	2940	9	71
12	1320	11	39	2900	8	63
13	1330	18	65	2530	8	55
14	1800	22	107	2500	7	47
15	2630	24	170	2490	7	47
16	3010	25	203	2470	7	47
17	3000	26	211	2480	7	47
18	3400	26	239	2910	7	55
19	3950	26	277	3450	7	65
20	3950	26	277	3440	7	65
21	3920	22	233	3730	8	81
22	3900	15	158	6200	10	167
23	3940	16	170	6800	13	239
24	3910	18	190	5560	11	165
25	3920	19	201	4650	10	126
26	3960	20	214	3880	9	94
27	3940	21	223	3800	11	113
28	3920	22	233	3810	12	123
29	3130	22	186	3810	12	123
30	2980	21	169	3830	12	124
31	---	---	---	3660	14	138
MONTH	79030	---	4100	107550	---	3130
YEAR	1749420		65905.0			

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	8.0	14.0	12.0	---	---	24.0	21.5	21.0	19.0	19.0	17.0
2	9.0	8.5	13.5	11.5	---	---	23.5	21.0	20.5	19.5	19.0	16.5
3	9.5	8.5	14.0	12.0	---	---	23.0	20.5	21.0	19.5	18.0	16.5
4	10.0	9.5	14.0	12.0	---	---	23.0	20.0	22.0	20.0	17.0	16.0
5	10.0	9.5	14.5	13.0	---	---	23.0	20.5	21.5	20.5	17.0	16.0
6	10.5	9.5	15.5	13.5	---	---	21.5	19.5	20.5	19.5	17.0	16.0
7	10.5	9.5	16.0	14.0	---	---	21.5	19.5	20.5	19.0	17.0	16.0
8	10.5	9.5	16.0	14.0	---	---	20.0	18.5	20.0	18.5	16.5	15.5
9	10.0	9.5	15.5	14.0	---	---	19.0	18.0	19.5	18.5	18.0	16.0
10	10.5	9.5	16.0	14.5	---	---	18.5	17.0	20.0	18.0	16.5	15.5
11	11.0	10.0	16.0	14.0	---	---	19.0	17.0	20.0	18.0	16.5	15.5
12	11.5	10.5	15.5	14.5	---	---	19.0	17.0	19.5	18.5	16.5	15.0
13	11.5	10.5	15.0	13.0	---	---	19.5	18.0	19.0	18.0	16.5	15.5
14	11.5	10.5	14.5	13.0	---	---	20.0	18.5	19.5	18.0	16.5	15.5
15	12.0	10.5	14.0	12.0	---	---	20.0	18.5	19.0	18.0	16.5	15.0
16	12.0	10.5	14.0	12.0	---	---	19.5	18.5	19.5	18.0	16.5	15.5
17	11.5	10.5	13.0	11.5	---	---	19.5	18.0	19.5	18.0	16.0	15.0
18	11.0	10.0	13.5	10.5	---	---	20.0	18.5	19.5	18.0	16.0	15.0
19	11.0	10.0	---	---	---	---	20.5	18.5	19.5	18.0	16.0	15.0
20	11.0	10.5	---	---	---	---	20.5	19.0	18.5	17.0	16.0	15.5
21	12.0	11.5	---	---	---	---	21.5	19.5	19.0	16.5	16.5	15.5
22	13.0	11.0	---	---	20.5	18.5	21.0	20.0	19.0	17.0	16.5	15.5
23	11.0	10.0	---	---	20.5	18.5	21.0	19.5	19.5	18.0	16.5	15.5
24	10.5	10.0	---	---	21.5	19.0	20.5	19.0	20.0	18.5	16.0	15.0
25	11.0	10.5	---	---	21.0	18.5	20.5	19.5	20.0	19.0	15.5	14.5
26	11.5	10.5	---	---	21.5	19.0	21.0	19.5	20.5	19.0	15.5	14.5
27	12.0	11.0	---	---	21.5	19.0	21.0	19.5	19.0	18.0	16.0	14.5
28	11.0	9.5	---	---	23.0	19.5	22.0	20.0	18.5	17.0	16.0	15.0
29	14.5	13.5	---	---	23.5	20.0	21.5	20.0	18.5	16.5	16.0	15.0
30	14.5	13.0	---	---	23.5	20.0	20.5	19.5	18.0	16.5	16.5	15.5
31	---	---	---	---	---	---	20.0	19.0	19.0	16.5	---	---
MONTH	14.5	8.0	---	---	---	---	24.0	17.0	22.0	16.5	19.0	14.5

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	2820	6	46	2810	5	38	13500	12	437
2	2840	7	54	2810	4	30	13300	12	431
3	2800	7	53	2800	4	30	13200	12	428
4	2820	7	53	2800	4	30	13100	12	424
5	2830	8	61	2880	4	31	13000	12	421
6	2820	8	61	2900	6	47	13000	10	351
7	2830	8	61	2880	10	78	13100	9	318
8	2840	8	61	2880	8	62	13500	10	364
9	2820	8	61	2890	8	62	13400	12	434
10	2820	8	61	2900	8	63	13400	12	434
11	2800	8	60	6690	7	126	13100	14	495
12	2800	8	60	14300	10	386	10900	11	324
13	2780	8	60	15000	11	445	10200	11	303
14	2760	8	60	16700	15	676	7530	10	203
15	2790	8	60	16800	19	862	7160	10	193
16	2800	8	60	17300	16	747	7080	10	191
17	2800	8	60	23500	16	1020	7190	10	194
18	2800	8	60	25300	17	1160	7140	13	251
19	2770	8	60	21700	20	1170	7160	16	309
20	2770	8	60	21300	13	748	7190	12	233
21	2740	8	59	21300	16	920	7180	10	194
22	2790	8	60	21300	11	633	7150	10	193
23	2820	8	61	21300	13	748	7160	10	193
24	2800	5	38	21300	14	805	7130	10	193
25	2750	5	37	21300	15	863	7180	10	194
26	2750	4	30	19300	14	730	7360	10	199
27	2750	5	37	15400	17	707	8310	9	202
28	2710	6	44	13400	15	543	8360	10	226
29	2720	6	44	13300	15	539	8450	12	274
30	2810	6	46	13200	15	535	10600	11	315
31	2810	6	46	---	---	---	12200	12	395
MONTH	86560	---	1674	388240	---	14834	308230	---	9316

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	12100	14	457	14900	11	443	8160	12	264
2	12600	16	544	14000	11	416	10700	14	404
3	13900	10	375	13800	12	447	11500	14	435
4	13900	8	300	13600	12	441	11700	14	442
5	14000	8	302	13400	11	398	11700	11	347
6	10200	7	193	11700	10	316	11800	10	319
7	10800	8	233	10300	10	278	12200	10	329
8	12100	8	261	9730	9	236	12700	12	411
9	11400	8	246	9290	9	226	12700	10	343
10	10200	8	220	7650	10	207	12800	9	311
11	10200	8	220	6300	10	170	12800	9	311
12	10200	10	275	6230	10	168	12800	10	346
13	10100	8	218	6230	10	168	13200	9	321
14	10700	8	231	6190	10	167	13600	9	330
15	14500	17	666	6180	12	200	13700	9	333
16	21900	13	769	6130	13	215	14000	9	340
17	40200	16	1740	5220	13	183	14600	10	394
18	45700	22	2710	5210	13	183	14500	10	391
19	47000	31	3930	5250	12	170	14600	10	394
20	47100	10	1270	5210	10	141	14600	10	394
21	46800	8	1010	5240	10	141	14500	8	313
22	43500	8	940	5180	10	140	14600	8	315
23	37400	11	1110	5140	10	139	14700	8	318
24	33900	10	915	6330	10	171	14700	8	318
25	33500	10	904	7060	10	191	14800	11	440
26	28400	10	767	7080	10	191	13600	14	514
27	22800	10	616	7120	13	250	13000	18	632
28	18400	10	497	7210	16	311	13300	20	718
29	16700	12	541	---	---	---	17800	25	1200
30	15300	13	537	---	---	---	37800	22	2250
31	15200	13	534	---	---	---	44200	21	2510
MONTH	690700	---	23531	226880	---	6707	467360	---	16687

	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	47000	24	3050	6750	30	547	3580	18	174
2	53000	21	3010	6750	21	383	3540	26	249
3	54000	21	3060	6690	12	217	3560	25	240
4	52900	11	1570	6670	10	180	3570	23	222
5	40800	12	1320	5780	9	140	3580	26	251
6	33000	12	1070	5300	10	143	3570	30	289
7	30400	10	821	5240	13	184	3560	21	202
8	26500	12	859	5260	13	185	3560	13	125
9	25100	14	949	5240	13	184	3580	16	155
10	20600	14	779	5230	14	198	3590	17	165
11	16900	16	730	7700	16	333	3600	16	156
12	15300	17	702	7920	16	342	3590	16	155
13	15200	17	698	8620	14	326	4140	14	156
14	15100	15	612	8150	14	308	6160	13	216
15	15000	15	607	8030	16	347	7500	18	364
16	14900	15	603	7980	13	280	6080	23	378
17	14900	15	603	8040	12	260	3110	13	109
18	14900	14	563	7990	10	216	4030	12	131
19	14900	14	563	7970	9	194	5500	13	193
20	14900	14	563	7880	9	191	5530	23	343
21	14000	14	529	7080	10	191	5490	21	311
22	13500	18	656	6620	12	214	5440	18	264
23	12200	21	692	5850	13	205	4640	16	200
24	10700	21	607	5020	12	163	3660	13	128
25	9270	21	526	3950	10	107	3140	10	85
26	9190	21	521	3550	16	153	2720	9	66
27	9120	21	517	3490	20	188	2650	8	57
28	7980	26	560	3560	16	154	2640	9	64
29	6860	34	630	3600	12	117	2620	10	71
30	6770	32	585	3590	12	116	2580	9	63
31	---	---	---	3580	12	116	---	---	---
MONTH	634890	---	28555	189080	---	6882	120510	---	5582

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	3030	9	74	7440	10	201	7740	6	125
2	3490	6	57	7420	10	200	7800	6	126
3	4090	4	44	7300	9	177	7820	8	169
4	4090	9	99	7270	9	177	7890	6	128
5	4090	14	155	7430	9	181	7910	5	107
6	4070	13	143	7430	9	181	8000	5	108
7	4080	13	143	7500	9	182	7870	5	106
8	5030	14	190	7530	9	183	7840	5	106
9	6020	16	260	7520	9	183	7900	5	107
10	7430	13	261	7530	9	183	8000	5	108
11	7490	10	202	7520	9	183	7980	5	108
12	7560	10	204	7420	10	200	7950	5	107
13	7580	12	246	7610	9	185	7970	5	108
14	7560	12	245	7580	9	184	7870	5	106
15	7570	12	245	7530	9	183	7800	4	84
16	7570	12	245	7550	10	204	7910	3	64
17	7560	13	265	7470	10	202	7960	3	64
18	7610	12	247	7400	10	200	7970	8	172
19	7560	10	204	7410	10	200	7960	13	279
20	7470	10	202	7520	10	203	8010	17	368
21	7470	12	242	7620	8	165	7970	21	452
22	7490	12	243	7740	6	125	7900	17	363
23	7540	12	244	7750	6	126	7970	13	280
24	7510	12	243	7720	6	125	8020	17	368
25	7510	12	243	7660	6	124	7870	21	446
26	7520	12	244	7690	6	125	7740	17	355
27	7440	13	261	7800	6	126	7680	13	270
28	7330	12	237	7820	6	127	7620	13	267
29	7420	12	240	7800	5	105	7580	14	287
30	7490	10	202	7820	5	106	7650	14	289
31	7460	10	201	7720	5	104	---	---	---
MONTH	203130	---	6331	234520	---	5150	236150	---	6027
YEAR	3786250		131276.0						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
NOV.										
15...	1125	10.5	18000	18	875	51	61	82	97	100
26...	1310	10.0	21000	14	794	63	79	100	--	--
JAN.										
19...	1245	8.5	47400	32	4100	31	44	73	100	--
23...	1240	8.5	39500	24	2560	28	37	61	86	100
MAR.										
28...	1440	10.0	12700	20	686	70	76	88	100	--
MAY										
16...	1320	14.0	7900	12	256	74	86	95	100	--

11407700 FEATHER RIVER AT YUBA CITY, CALIF.

LOCATION.--Lat 39°08'20", long 121°36'17", in New Helvetia Grant, T.15 N., R.3 E., Yuba County, at gaging station on left bank, at 5th Street railroad bridge in Yuba City, 0.7 mi (1.1 km) upstream from confluence with Yuba River, and at mile 28.0 (45.1 km) upstream from mouth.

DRAINAGE AREA.--3,974 mi^2 (10,293 km^2).

PERIOD OF RECORD.--Water temperatures: July 1964 to current year.
Sediment records: October 1964 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 520 mg/l Nov. 12; minimum daily, 20 mg/l Nov. 5.
Sediment discharge: Maximum daily, 31,100 tons (28,200 tonnes) Jan. 17; minimum daily, 157 tons (142 tonnes) Nov. 5.
Period of record: Water temperatures: Maximum (1964-67): 32.0°C July 29, 1964; minimum (1964-65), 3.0°C on several days in 1965.
Sediment concentrations: Maximum daily, 786 mg/l Dec. 24, 1964; minimum daily, 6 mg/l Jan. 9, 10, 1969.
Sediment discharge: Maximum daily, 334,000 tons (303,000 tonnes) Dec. 24, 1964; minimum daily, 12 tons (11 tonnes) Oct. 27, 1966.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16.5	13.5	---	---	9.5	10.0	9.0	---	---	24.0	---	---
2	---	12.5	10.0	7.0	9.5	9.5	10.0	15.5	---	---	23.0	---
3	---	---	8.5	7.0	---	---	9.0	---	22.5	23.5	---	19.5
4	16.0	---	8.5	6.5	9.5	9.5	11.0	---	---	---	---	---
5	---	11.5	9.0	6.5	8.0	9.5	10.5	---	---	23.0	23.0	18.0
6	16.5	11.5	9.0	---	8.5	9.5	11.0	17.5	21.0	---	---	---
7	---	13.0	9.0	7.0	9.0	8.0	---	17.5	---	---	22.0	---
8	15.0	13.0	---	6.0	9.5	---	12.0	---	19.5	---	---	---
9	14.5	14.0	---	7.5	---	9.5	9.5	---	---	18.0	21.0	17.5
10	---	---	9.0	7.5	---	---	10.5	16.0	---	---	---	---
11	---	---	9.5	7.5	9.5	9.5	11.5	---	22.0	19.0	---	18.5
12	---	13.5	9.0	---	9.0	10.0	12.5	---	---	---	21.5	---
13	---	12.5	9.0	---	10.0	11.0	---	17.0	21.0	---	---	17.0
14	---	11.0	8.5	9.5	10.0	12.0	---	---	---	---	19.5	---
15	---	11.5	---	10.0	10.0	12.0	14.0	16.0	---	21.5	---	---
16	15.5	11.0	---	9.5	---	12.0	14.5	13.0	---	---	18.5	18.5
17	---	---	---	9.5	---	---	14.0	14.5	---	19.5	---	---
18	16.0	11.5	9.5	10.0	---	12.0	12.0	---	20.5	---	---	17.5
19	---	9.5	8.0	9.5	10.5	12.0	---	---	---	21.0	19.5	---
20	---	9.5	8.5	---	10.0	12.0	---	---	19.0	---	18.5	17.0
21	---	9.5	9.0	9.0	9.0	12.0	---	17.0	---	---	---	---
22	16.0	---	8.5	7.5	9.0	12.0	14.0	---	---	23.0	---	---
23	14.5	---	---	8.0	---	---	---	---	---	---	---	18.5
24	14.0	10.0	9.0	8.0	---	---	12.0	17.5	---	22.5	---	---
25	14.0	10.0	---	10.0	10.0	10.0	12.0	---	21.0	---	---	---
26	14.0	10.0	9.5	8.0	10.0	---	13.0	---	---	22.0	---	15.5
27	---	10.0	9.0	---	9.5	---	---	---	21.0	---	21.0	---
28	---	10.0	10.5	9.0	9.5	11.5	---	21.0	---	---	---	---
29	13.0	10.0	11.5	9.0	---	11.0	16.5	---	---	22.5	19.0	---
30	13.0	10.0	---	9.0	---	10.0	17.5	---	---	---	---	17.5
31	13.0	---	8.5	8.5	---	---	---	21.5	---	20.5	19.5	---
MONTH	---	---	---	8.5	---	---	---	---	---	---	---	---

11407700 FEATHER RIVER AT YUBA CITY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	2830	78	596	2830	27	206	20000	220	11900
2	2850	75	577	2830	26	199	14500	176	6890
3	2810	70	531	2820	24	183	14000	153	5780
4	2830	66	504	2820	22	168	13700	150	5550
5	2840	60	460	2900	20	157	13400	171	6190
6	2830	57	436	2980	28	225	13400	158	5720
7	2900	56	438	4750	30	385	13400	144	5210
8	2910	55	432	3350	54	488	13800	140	5220
9	2860	58	448	4640	29	363	13700	140	5180
10	2840	60	460	6160	36	599	13600	146	5360
11	2820	60	457	14200	81	3110	13400	166	6010
12	2820	62	472	19000	520	26700	11200	117	3540
13	2790	55	414	17500	211	9970	10900	126	3710
14	2780	50	375	18300	238	11800	7940	90	1930
15	2800	45	340	17500	208	9830	7470	76	1530
16	2810	41	311	20400	245	13500	7340	72	1430
17	2820	39	297	27900	242	18200	8150	68	1500
18	2820	37	282	27800	194	14600	7730	68	1420
19	2790	35	264	22800	189	11600	7560	81	1650
20	2790	33	249	22200	203	12200	7520	58	1180
21	2750	30	223	22100	209	12500	9180	58	1440
22	2840	28	215	21800	210	12400	10100	72	1960
23	2930	36	285	21700	210	12300	8290	72	1610
24	2850	34	262	21800	213	12500	7980	72	1550
25	2780	38	285	21700	245	14400	7800	68	1430
26	2770	28	209	19700	185	9840	8300	56	1250
27	2770	30	224	15700	230	9750	14400	81	3150
28	2730	32	236	13700	194	7180	12300	122	4050
29	2740	33	244	13600	140	5140	11400	54	1660
30	2830	32	245	14800	155	6190	12000	54	1750
31	2830	32	245	---	---	---	13100	111	3930
MONTH	87360	---	11016	430280	---	236683	347560	---	110680

	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	13000	135	4740	15400	195	8110	22000	230	13700
2	13200	149	5310	14300	180	6950	15300	270	11200
3	14400	189	7350	14100	220	8380	13300	150	5390
4	14300	176	6800	13800	200	7450	12800	135	4670
5	14400	207	8050	13600	195	7160	12500	125	4220
6	10800	150	4370	11900	168	5400	12400	118	3950
7	11700	99	3130	10500	140	3970	14100	115	4380
8	12800	117	4040	9910	140	3750	14600	180	7100
9	11900	164	5270	9470	135	3450	13700	142	5250
10	10600	104	2980	7820	125	2640	13500	130	4740
11	10600	79	2260	6460	120	2090	14100	130	4950
12	11800	90	2870	6400	108	1870	15200	130	5340
13	11100	90	2700	6430	120	2080	14300	132	5100
14	13600	104	3820	6360	105	1800	14400	133	5170
15	20000	117	6320	6340	80	1370	14300	125	4830
16	29500	148	11800	6450	70	1220	14500	125	4890
17	44700	258	31100	5480	60	888	15100	150	6120
18	49700	202	27100	5430	55	806	14900	150	6030
19	49200	117	15500	7770	80	1680	14900	130	5230
20	48500	75	9820	5980	115	1860	14900	130	5230
21	47900	72	9310	5840	60	946	14800	150	5990
22	44300	116	13900	5820	65	1020	14900	140	5630
23	38100	181	18600	5550	60	899	14900	132	5310
24	34500	190	17700	6670	75	1350	14900	130	5230
25	34000	196	18000	7350	110	2180	15000	110	4460
26	28900	198	15400	7340	95	1880	14000	80	3020
27	23200	224	14000	7370	80	1590	15700	94	3980
28	18800	221	11200	8420	70	1590	16500	95	4230
29	17000	199	9130	---	---	---	25600	81	5600
30	15600	212	8930	---	---	---	45500	119	14600
31	15500	242	10100	---	---	---	46600	65	8180
MONTH	733600	---	311600	238260	---	84379	529200	---	183720

11407700 FEATHER RIVER AT YUBA CITY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	53200	43	6180	6880	136	2530	3620	81	792
2	55200	42	6260	6870	134	2490	3580	80	773
3	55300	65	9710	6810	133	2450	3600	79	768
4	53800	81	11800	6780	131	2400	3610	87	848
5	41500	112	12500	5880	130	2060	3610	94	916
6	33600	138	12500	5400	129	1880	3600	105	1020
7	30900	145	12100	5330	115	1650	3580	110	1060
8	27000	135	9840	5340	106	1530	3580	116	1120
9	25900	155	10800	5310	108	1550	3600	115	1120
10	21200	170	9730	5290	112	1600	3610	113	1100
11	17400	180	8460	7750	117	2450	3620	111	1080
12	15700	185	7840	7980	125	2690	3610	109	1060
13	15500	170	7110	8680	130	3050	4160	108	1210
14	15400	140	5820	8200	127	2810	6180	125	2090
15	15300	123	5080	8080	123	2680	7520	150	3050
16	15200	115	4720	8040	130	2820	6100	125	2060
17	15100	115	4690	8100	125	2730	3130	105	887
18	15100	110	4480	8050	125	2720	4050	116	1270
19	15100	100	4080	8030	125	2710	5520	140	2090
20	15100	100	4080	7940	125	2680	5550	129	1930
21	14200	100	3830	7130	126	2430	5510	110	1640
22	13700	103	3810	6670	126	2270	5460	100	1470
23	12400	105	3520	5900	127	2020	4660	95	1200
24	10900	105	3090	5070	128	1750	3670	88	872
25	9500	118	3030	3990	120	1290	3150	85	723
26	9410	112	2850	3590	110	1070	2730	85	627
27	9300	90	2260	3530	105	1000	2660	82	589
28	8140	95	2090	3600	99	962	2650	86	615
29	7000	112	2120	3640	92	904	2630	88	625
30	6900	140	2610	3630	85	833	2590	89	622
31	---	---	---	3620	82	801	---	---	---
MONTH	653950	---	186990	191110	---	62810	121140	---	35227

	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	3040	94	772	7440	70	1410	7740	103	2150
2	3500	98	926	7420	66	1320	7800	89	1870
3	4100	103	1140	7300	72	1420	7820	70	1480
4	4100	88	974	7270	80	1570	7890	86	1830
5	4100	75	830	7430	88	1770	7910	105	2240
6	4080	71	782	7430	85	1710	8000	91	1970
7	4090	68	751	7510	79	1600	7870	80	1700
8	5150	95	1320	7540	70	1430	7840	70	1480
9	6150	120	1990	7530	60	1220	7900	59	1260
10	7490	197	3980	7540	65	1320	8000	65	1400
11	7530	188	3820	7530	70	1420	7980	70	1510
12	7590	160	3280	7440	73	1470	7950	71	1520
13	7600	141	2890	7620	78	1600	7970	72	1550
14	7580	122	2500	7590	81	1660	7870	66	1400
15	7590	106	2170	7540	77	1570	7800	59	1240
16	7590	103	2110	7560	73	1490	7910	54	1150
17	7570	100	2040	7480	72	1450	7960	57	1230
18	7620	94	1930	7410	71	1420	7970	60	1290
19	7570	87	1780	7420	70	1400	7960	65	1400
20	7480	85	1720	7530	70	1420	8010	71	1540
21	7480	84	1700	7630	72	1480	7970	67	1440
22	7500	83	1680	7750	74	1550	7900	63	1340
23	7550	83	1690	7750	71	1490	7970	60	1290
24	7520	84	1710	7720	68	1420	8020	60	1300
25	7520	85	1730	7660	64	1320	7870	60	1270
26	7530	86	1750	7690	61	1270	7740	60	1250
27	7450	80	1610	7800	58	1220	7680	63	1310
28	7340	77	1530	7820	56	1180	7620	65	1340
29	7430	74	1480	7800	55	1160	7580	68	1390
30	7500	73	1480	7820	85	1790	7650	70	1450
31	7470	73	1470	7720	121	2520	---	---	---
MONTH	203810	---	55535	234690	---	46070	236150	---	44590
YEAR	4007110		1369300						

11407700 FEATHER RIVER AT YUBA CITY, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
12...	0740	14.0	19000	849	43600	4	6	8	11	18
15...	0940	11.0	17500	214	10100	--	--	--	--	--
18...	1155	11.5	27800	247	18500	--	--	--	--	--
20...	0735	9.5	22200	241	14400	--	--	--	--	--
26...	1050	10.0	19700	150	7980	--	--	--	--	--
29...	0740	10.0	13600	185	6790	--	--	--	--	--
DEC.										
13...	0740	9.0	10900	148	4360	--	--	--	--	--
19...	0740	8.0	7560	95	1940	--	--	--	--	--
JAN.										
15...	1645	10.0	20000	89	4810	--	--	--	--	--
16...	1650	9.5	29500	131	10400	--	--	--	--	--
17...	0745	9.5	44700	220	26600	--	--	--	--	--
18...	0750	10.0	49700	160	21500	--	--	--	--	--
19...	1015	9.5	49200	91	12100	--	--	--	--	--
23...	1350	8.5	38100	142	14600	--	--	--	--	--
MAR.										
28...	1155	11.5	16500	80	3560	--	--	--	--	--
APR.										
26...	1750	13.0	9410	106	2690	--	--	--	--	--
JUNE										
27...	1210	21.0	2660	80	575	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.											
12...	--	27	--	52	--	69	--	89	--	98	100
15...	--	28	--	47	--	76	--	96	--	100	--
18...	--	29	--	45	--	70	--	92	--	99	100
20...	--	22	--	36	--	63	--	93	--	100	--
26...	--	35	--	54	--	78	--	98	--	100	--
29...	22	--	38	--	82	--	99	--	100	--	--
DEC.											
13...	20	--	37	--	76	--	99	--	100	--	--
19...	--	28	--	38	--	52	--	100	--	--	--
JAN.											
15...	--	60	--	77	--	92	--	100	--	--	--
16...	--	30	--	30	--	68	--	94	--	99	100
17...	--	41	--	41	--	82	--	96	--	100	--
18...	--	30	--	30	--	62	--	94	--	100	--
19...	42	--	57	--	83	--	100	--	--	--	--
23...	38	--	53	--	83	--	100	--	--	--	--
MAR.											
28...	45	--	64	--	84	--	99	--	100	--	--
APR.											
26...	--	60	--	76	--	92	--	98	--	100	--
JUNE											
27...	--	87	--	87	--	93	--	100	--	--	--

11409400 OREGON CREEK BELOW LOG CABIN DAM, NEAR CAMPTONVILLE, CALIF.

LOCATION.--Lat 39°26'22", long 121°03'29", in SW¼SW¼ sec.11, T.18 N., R.8 E., Yuba County, Tahoe National Forest, temperature recorder at gaging station on right bank 500 ft (152 m) downstream from Log Cabin Dam, 670 ft (204 m) upstream from High Point Ravine, and 1.1 mi (1.8 km) southwest of Camptonville.
DRAINAGE AREA.--29.1 mi² (75.4 km²).
PERIOD OF RECORD.--Water temperatures: August 1971 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 24.5°C Aug. 4, 5; minimum, 2.0°C Jan. 6, 7.
Period of record:
Water temperatures: Maximum (1971-72, 1973 to current year), 25.0°C July 16-18, 1972; minimum, 0.5°C Dec. 11-14, 1972.
REMARKS.--Prior to July 24, 1973, at site 470 ft (143 m) downstream. Clock stopped Oct. 18-31, Nov. 13 to Dec. 11, Mar. 14 to Apr. 5; range in temperature, 9.5°C to 14.0°C, 5.0°C to 8.0°C, and 6.0°C to 8.0°C, respectively. Recorder malfunction Oct. 1-3, Dec. 14, Dec. 28 to Jan. 2, Feb. 4 to Mar. 6.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	10.5	10.0	---	---	---	---	5.5	5.0	---	---
2	---	---	10.0	9.5	---	---	---	---	5.0	4.5	---	---
3	---	---	9.5	8.5	---	---	4.0	3.0	4.5	4.0	---	---
4	14.0	12.5	8.5	7.5	---	---	4.0	3.5	---	---	---	---
5	14.0	12.5	8.0	7.5	---	---	4.0	3.0	---	---	---	---
6	13.5	12.5	9.0	7.5	---	---	3.0	2.0	---	---	---	---
7	13.0	13.0	10.0	9.0	---	---	3.5	2.0	---	---	7.0	6.0
8	13.0	11.5	10.0	9.5	---	---	3.5	3.5	---	---	6.5	5.5
9	11.5	11.0	9.5	8.5	---	---	3.5	3.5	---	---	7.0	6.0
10	11.5	10.5	10.0	9.5	---	---	3.5	3.5	---	---	7.5	7.0
11	11.5	11.0	10.0	9.5	---	---	4.0	3.5	---	---	7.5	7.5
12	12.0	11.0	9.5	8.0	5.5	5.0	4.5	4.0	---	---	7.5	7.5
13	12.5	11.5	---	---	6.0	5.5	5.5	4.5	---	---	8.0	7.0
14	13.0	12.0	---	---	---	---	5.5	4.5	---	---	---	---
15	13.0	12.5	---	---	5.0	4.5	6.0	5.5	---	---	---	---
16	13.0	12.5	---	---	6.0	5.0	6.5	6.0	---	---	---	---
17	13.0	12.5	---	---	6.5	5.5	6.5	5.5	---	---	---	---
18	---	---	---	---	5.5	4.5	7.5	6.5	---	---	---	---
19	---	---	---	---	5.0	4.5	7.5	7.5	---	---	---	---
20	---	---	---	---	6.0	5.0	7.5	7.0	---	---	---	---
21	---	---	---	---	6.0	5.5	7.0	5.5	---	---	---	---
22	---	---	---	---	6.0	5.5	5.5	4.5	---	---	---	---
23	---	---	---	---	6.0	5.5	6.0	5.5	---	---	---	---
24	---	---	---	---	6.0	5.5	6.0	5.5	---	---	---	---
25	---	---	---	---	7.0	6.0	6.0	5.5	---	---	---	---
26	---	---	---	---	7.0	6.5	5.5	4.5	---	---	---	---
27	---	---	---	---	7.0	6.5	4.5	4.0	---	---	---	---
28	---	---	---	---	---	---	4.5	4.5	---	---	---	---
29	---	---	---	---	---	---	4.5	4.5	---	---	---	---
30	---	---	---	---	---	---	4.5	4.0	---	---	---	---
31	---	---	---	---	---	---	5.0	4.5	---	---	---	---
MONTH	---	---	---	---	---	---	7.5	2.0	---	---	---	---

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

11413520 NORTH YUBA RIVER BELOW NEW BULLARDS BAR DAM, NEAR NORTH SAN JUAN, CALIF.

LOCATION.--Lat 39°22'48", long 121°08'19", in SW¼NE¼ sec.36, T.18 N., R.7 E., Yuba County, Plumas National Forest, temperature recorder at gaging station on right bank, 1.1 mi (1.8 km) downstream from New Bullards Bar Dam, and 2 mi (3 km) northwest of North San Juan.

DRAINAGE AREA.--490 mi^2 (1,269 km^2).

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1969, July 1971 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 19.5°C on several days during June and July; minimum, 5.0°C Jan. 6, 10, 11.
Period of record:
Water temperatures: Maximum (1966-69, 1971 to current year), 25.0°C July 7, 9, 21, 1968; minimum, 2.0°C on many days in 1967 and 1968.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.0	14.5	12.0	17.0	13.0	19.5	16.0	19.0	16.0	17.0	14.5
2	8.0	7.0	14.0	11.5	17.0	13.0	19.5	16.0	19.0	16.0	17.0	14.5
3	8.5	8.0	14.5	12.0	17.0	13.5	19.5	16.0	19.0	16.5	17.0	14.5
4	9.0	8.5	14.5	12.0	16.5	13.5	19.5	16.0	19.0	16.5	17.0	14.5
5	9.0	8.5	15.0	12.0	17.0	13.5	19.5	16.5	19.0	16.5	17.0	14.5
6	9.0	8.5	15.5	12.5	17.5	13.5	19.0	16.5	18.5	16.0	16.5	14.5
7	9.0	9.0	16.0	13.0	17.0	13.5	18.5	16.0	18.5	16.0	17.0	14.5
8	9.5	8.5	16.0	13.5	17.0	13.0	17.5	14.5	18.0	15.5	17.0	14.5
9	8.5	8.0	16.5	14.0	17.0	13.5	15.5	14.5	18.5	15.5	17.0	14.5
10	10.5	8.5	16.0	13.5	17.5	13.5	16.5	13.0	18.0	15.5	17.5	14.5
11	11.5	9.0	16.5	13.5	17.5	14.0	16.5	13.0	18.5	15.5	17.5	15.0
12	12.0	9.5	16.5	14.0	17.5	14.0	17.0	13.0	18.0	15.5	17.0	14.5
13	12.0	9.5	16.0	13.0	18.5	14.5	17.5	13.5	17.5	15.0	16.5	14.0
14	12.0	10.0	16.5	13.0	19.0	14.5	17.5	14.5	17.0	14.0	16.0	13.5
15	12.5	10.5	15.5	13.0	19.0	14.5	17.5	14.5	17.0	14.0	16.0	13.5
16	12.5	10.5	15.0	12.0	17.0	14.0	17.5	14.0	17.0	14.5	15.5	13.0
17	13.0	11.0	13.0	11.5	18.0	13.5	17.5	14.0	17.0	14.0	15.5	13.0
18	12.0	11.0	13.5	10.0	17.0	13.5	18.0	14.5	17.0	14.5	15.5	13.0
19	12.5	10.5	14.0	9.5	15.0	13.5	18.0	15.0	16.5	14.0	15.5	13.0
20	13.0	10.5	14.5	10.0	17.5	12.5	18.0	15.0	16.5	13.5	16.0	13.0
21	13.5	11.0	15.0	10.5	18.5	13.5	18.0	15.0	17.0	14.0	15.5	13.0
22	12.5	11.0	15.5	11.0	19.0	14.5	18.5	15.0	17.0	14.5	16.0	13.5
23	12.0	10.5	15.5	11.5	18.5	14.5	18.5	15.5	17.5	14.5	15.5	13.0
24	11.0	10.0	16.5	11.5	18.0	14.0	18.5	15.5	17.5	14.5	15.5	13.0
25	12.5	10.0	17.5	12.5	17.5	14.0	18.5	16.0	17.5	15.0	15.5	13.0
26	11.5	10.5	18.5	13.0	17.5	13.5	19.0	16.0	17.5	15.0	15.5	13.0
27	12.5	10.0	19.0	13.5	17.5	14.0	19.0	16.0	17.5	14.5	15.0	13.0
28	13.0	10.5	18.5	13.0	18.5	14.5	18.5	15.5	17.0	14.5	14.5	12.5
29	13.5	11.0	18.0	12.5	19.0	15.5	18.5	15.5	16.5	14.5	14.5	12.5
30	14.0	11.5	16.5	12.0	19.5	16.0	18.5	15.5	16.5	14.5	14.0	12.0
31	---	---	16.5	12.5	---	---	18.5	16.0	17.0	15.0	---	---
MONTH	14.0	7.0	19.0	9.5	19.5	12.5	19.5	13.0	19.0	13.5	17.5	12.0

11417500 SOUTH YUBA RIVER AT JONES BAR, NEAR GRASS VALLEY, CALIF.

LOCATION.--Lat 39°17'32", long 121°06'13", in NW¼SE¼ sec.32, T.17 N., R.8 E., Nevada County, at gaging station on left bank at Jones Bar, 100 ft (30 m) upstream from Rush Creek, 0.9 mi (1.4 km) downstream from bridge on State Highway 49, and 5 mi (8 km) northwest of Grass Valley.

DRAINAGE AREA.--308 mi^2 (798 km^2).

PERIOD OF RECORD.--Water temperatures: February 1965 to current year.
Sediment records: Water years 1967 to September 1974, partial-record station (discontinued).

EXTREMES.--Current year:
Water temperatures: Maximum, 27.5°C Aug. 1-5; minimum, 1.5°C sometime during period Dec. 20 to Jan. 28.
Period of record: Water temperatures: Maximum, 27.5°C July 15-17, 1972, Aug. 1-5, 1974; minimum, freezing point on several days in most years.

REMARKS.--Clock stopped Dec. 20 to Jan. 28; range in temperature, 1.5°C to 8.5°C. Recorder malfunction Oct. 1-3, Feb. 6 to Mar. 6, Mar. 19 to Apr. 11, July 9.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	11.0	9.5	7.5	6.0	---	---	7.0	5.5	---	---
2	---	---	10.0	9.0	6.0	5.5	---	---	7.0	5.0	---	---
3	---	---	9.0	7.5	6.0	5.5	---	---	6.0	5.0	---	---
4	13.5	11.0	7.5	6.5	5.5	5.0	---	---	6.0	4.5	---	---
5	13.5	11.0	8.5	7.5	6.5	5.0	---	---	5.0	3.0	---	---
6	13.0	11.5	10.0	8.5	6.5	6.5	---	---	---	---	---	---
7	13.0	12.5	11.0	10.0	7.0	6.0	---	---	---	---	7.5	5.5
8	13.0	11.0	11.5	10.5	6.5	5.5	---	---	---	---	7.0	5.0
9	12.0	10.0	11.5	10.5	6.0	5.0	---	---	---	---	7.5	6.0
10	11.5	9.5	12.0	11.0	6.5	5.0	---	---	---	---	8.0	7.0
11	12.0	9.5	12.0	11.5	7.0	6.5	---	---	---	---	8.0	7.5
12	12.5	10.0	11.5	9.5	6.5	6.0	---	---	---	---	8.0	7.5
13	13.5	11.5	9.5	8.5	7.0	5.5	---	---	---	---	8.0	6.5
14	14.0	12.0	9.0	8.0	6.5	6.0	---	---	---	---	9.0	7.5
15	14.0	12.5	9.0	9.0	6.5	6.0	---	---	---	---	9.5	8.5
16	14.0	12.0	9.5	9.0	6.0	6.0	---	---	---	---	9.5	9.0
17	14.0	12.0	9.5	8.0	6.0	5.0	---	---	---	---	9.5	9.0
18	13.5	12.5	8.0	7.5	5.0	4.5	---	---	---	---	9.5	8.5
19	13.5	12.5	7.5	7.0	4.5	4.5	---	---	---	---	---	---
20	15.0	13.0	7.0	6.5	---	---	---	---	---	---	---	---
21	14.5	14.0	7.0	6.5	---	---	---	---	---	---	---	---
22	14.0	12.5	7.0	6.0	---	---	---	---	---	---	---	---
23	12.5	10.5	6.5	6.0	---	---	---	---	---	---	---	---
24	11.5	10.0	6.5	5.5	---	---	---	---	---	---	---	---
25	12.0	10.5	6.0	5.5	---	---	---	---	---	---	---	---
26	11.5	10.0	6.0	5.5	---	---	---	---	---	---	---	---
27	11.5	10.0	6.5	5.5	---	---	---	---	---	---	---	---
28	11.0	9.5	6.5	5.5	---	---	---	---	---	---	---	---
29	10.0	9.0	7.0	5.5	---	---	5.5	4.0	---	---	---	---
30	10.0	8.5	7.5	7.0	---	---	5.5	4.5	---	---	---	---
31	10.5	9.0	---	---	---	---	5.5	5.0	---	---	---	---
MONTH	15.0	8.5	12.0	5.5	---	---	---	---	---	---	---	---

11417500 SOUTH YUBA RIVER AT JONES BAR, NEAR GRASS VALLEY, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	15.0	12.5	16.5	13.0	25.5	22.0	27.5	24.0	22.5	19.5
2	---	---	13.5	12.0	16.5	13.5	25.0	22.0	27.5	24.0	22.5	20.0
3	---	---	14.0	11.5	16.5	13.5	25.0	22.0	27.5	24.5	22.5	20.0
4	---	---	15.0	12.0	15.5	13.5	25.0	21.5	27.5	24.5	22.5	19.5
5	---	---	15.0	12.5	16.5	13.0	24.5	21.5	27.5	24.5	22.5	19.5
6	---	---	16.0	13.5	17.0	14.5	24.0	21.5	27.0	24.0	22.0	19.0
7	---	---	16.5	14.0	17.0	14.5	23.0	20.0	26.5	23.5	22.5	19.5
8	---	---	16.5	14.0	16.5	14.5	21.0	18.0	25.5	22.0	22.5	19.0
9	---	---	15.5	14.0	17.0	15.0	---	---	26.0	22.0	22.0	19.0
10	---	---	15.0	13.0	17.5	14.5	18.5	15.0	25.0	22.0	22.0	19.0
11	---	---	13.5	12.0	18.0	15.0	19.0	16.0	25.0	22.0	22.0	19.5
12	11.0	9.5	13.0	12.0	18.0	15.0	20.0	16.0	25.0	21.5	21.0	18.5
13	10.5	8.5	12.5	11.0	18.5	15.5	21.0	17.5	23.5	21.5	20.5	17.5
14	11.5	9.0	13.0	11.0	18.5	15.5	22.5	18.5	22.5	19.0	20.0	17.0
15	12.0	10.0	12.5	11.5	18.0	15.5	22.0	19.0	22.5	19.0	20.0	17.0
16	12.0	10.0	11.5	10.5	17.5	15.5	22.0	18.0	23.0	19.5	19.5	17.0
17	12.5	10.5	10.5	8.5	18.0	15.5	22.5	18.5	23.0	19.5	20.0	17.0
18	11.5	9.0	10.5	8.0	18.0	16.0	23.0	19.0	22.5	19.5	20.0	17.0
19	11.0	8.5	11.0	8.0	17.0	15.5	24.0	20.0	22.0	19.0	20.0	17.5
20	12.0	9.0	12.5	9.5	19.0	14.5	24.0	20.5	22.0	18.5	20.0	17.5
21	12.5	10.0	14.0	10.5	21.5	17.0	24.5	21.0	22.5	19.0	20.0	17.5
22	12.5	11.0	16.0	12.0	22.5	18.5	24.5	21.0	23.0	19.5	20.5	18.0
23	12.0	9.0	16.0	13.5	22.5	19.0	25.0	21.5	23.0	19.5	20.5	18.0
24	9.0	7.5	16.0	13.5	22.0	18.5	25.5	22.0	23.5	20.0	20.0	17.5
25	8.5	6.5	15.0	12.5	21.0	18.0	25.0	22.5	23.5	20.0	20.0	17.5
26	9.5	8.0	16.0	13.0	21.0	17.0	26.0	23.0	23.0	20.0	20.0	17.5
27	11.0	8.0	15.0	12.5	21.0	17.0	26.0	23.0	23.0	20.0	19.5	17.5
28	12.5	9.5	15.0	11.5	22.5	18.0	25.5	23.0	22.5	19.5	18.5	16.5
29	13.0	10.5	14.5	11.0	24.0	20.0	26.0	22.5	22.0	19.5	18.0	16.0
30	14.5	11.5	14.5	12.5	25.0	22.0	26.0	22.5	22.0	19.5	17.0	15.0
31	---	---	15.5	12.5	---	---	26.5	23.0	22.5	20.0	---	---
MONTH	---	---	16.5	8.0	25.0	13.0	26.5	15.0	27.5	18.5	22.5	15.0

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.											
03...	1730	13.5	45	1	.12	--	--	--	--	--	--
30...	1600	9.5	65	2	.35	--	--	--	--	--	--
NOV.											
13...	1010	9.5	1870	92	465	38	45	56	76	89	100
DEC.											
10...	1200	5.0	358	7	6.8	--	--	--	--	--	--
JAN.											
03...	1200	3.5	690	12	22	--	--	--	--	--	--
FEB.											
04...	1250	5.0	442	11	13	--	--	--	--	--	--
MAR.											
06...	1620	7.5	990	47	126	--	--	--	--	--	--
06...	1625	7.5	990	47	126	88	90	93	100	--	--
APR.											
12...	1015	9.5	838	22	50	--	--	--	--	--	--
MAY											
02...	1430	13.0	589	5	8.0	--	--	--	--	--	--
JUNE											
04...	1215	14.0	2720	44	323	--	--	--	--	--	--
JULY											
09...	1650	16.0	561	56	85	97	98	100	--	--	--
AUG.											
05...	1230	25.5	64	2	.35	--	--	--	--	--	--
SEP.											
30...	1150	15.0	48	2	.26	--	--	--	--	--	--

11418000 YUBA RIVER BELOW ENGLEBRIGHT DAM, NEAR SMARTVILLE, CALIF.

LOCATION.--Lat 39°14'07", long 121°16'23", in NW¼NW¼ sec.23, T.16 N., R.6 E., Yuba County, temperature recorder at gaging station on right bank, 2,000 ft (610 m) downstream from Englebright Dam, 0.5 mi (0.8 km) upstream from Deer Creek, and 2.3 mi (3.7 km) northeast of Smartville.

DRAINAGE AREA.--1,108 mi^2 (2,870 km^2).

PERIOD OF RECORD.--Water temperatures: October 1972 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 19.5°C Sept. 28-30; minimum recorded, 6.5°C Feb. 8, 12, 13.
Period of record:
Water temperatures: Maximum (1973 to current year), 19.5°C Sept. 28-30, 1974; minimum, 3.0°C Dec. 19, 20, 1973.

REMARKS.--Recorder malfunction Jan. 3-30, July 4 to Aug. 4.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

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

11418500 DEER CREEK NEAR SMARTVILLE, CALIF.

LOCATION.--Lat 39°13'28", long 121°16'03", in SW¼SE¼ sec.23, T.16 N., R.6 E., Nevada County, on left bank 400 ft (122 m) upstream from county road bridge, 0.9 mi (1.4 km) upstream from mouth, and 2 mi (3 km) northeast of Smartville.

DRAINAGE AREA.--84.6 mi^2 (219.1 km^2).

PERIOD OF RECORD.--Water temperatures: October 1973 to September 1974.
Sediment records: October 1973 to September 1974.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 168 mg/l Mar. 1; minimum daily, 1 mg/l for many days.
Sediment discharge: Maximum daily, 1,700 tons (1,540 tonnes) Mar. 1; minimum daily, 0.01 ton (0.01 tonne) for many days.

REMARKS.--Miscellaneous chemical analyses published for this station for 1959 water year.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	---	9.5	8.0	8.5	9.0	10.0	19.0	24.0	24.5	---	---
2	---	10.5	8.0	8.0	9.0	8.5	9.5	17.0	---	29.5	28.0	---
3	---	---	8.0	7.0	9.5	8.0	9.0	18.5	---	---	---	24.5
4	---	10.0	8.0	7.0	8.5	8.5	11.0	20.0	24.5	---	29.5	---
5	---	---	8.0	8.0	8.0	9.0	11.5	19.5	---	---	29.5	23.0
6	---	12.0	8.0	5.0	6.0	9.0	11.5	21.0	21.0	---	---	---
7	---	13.5	7.5	7.0	8.5	8.0	11.5	23.5	---	23.5	---	---
8	---	13.0	7.0	6.0	8.5	7.5	11.0	23.0	---	20.0	28.5	---
9	---	13.0	8.5	6.0	6.5	---	12.0	22.0	22.0	21.0	---	---
10	---	14.0	8.0	6.5	8.5	10.0	12.0	23.0	---	---	28.5	23.5
11	---	14.0	7.5	6.0	9.0	9.0	11.0	24.0	28.5	23.5	---	---
12	---	12.5	8.5	6.5	8.0	10.0	12.0	20.5	---	---	---	22.0
13	---	11.5	8.5	7.0	8.0	11.0	12.5	21.0	27.5	25.0	---	---
14	---	12.0	---	8.0	8.5	10.5	14.0	22.0	---	---	---	20.0
15	---	11.0	8.0	8.0	9.0	13.0	15.0	19.0	---	25.0	---	---
16	---	11.5	8.5	8.5	9.5	11.0	14.5	21.0	---	---	25.5	23.0
17	---	11.0	8.0	9.0	9.0	14.0	16.5	17.0	22.0	25.0	---	---
18	---	11.0	7.0	10.0	9.0	13.5	14.0	18.0	---	---	23.5	23.5
19	---	9.0	6.5	10.0	8.5	12.0	14.5	19.0	21.0	26.5	---	---
20	---	9.0	---	9.5	7.0	14.0	13.0	19.5	---	---	25.0	23.0
21	---	9.0	8.0	9.0	7.0	12.0	17.0	20.0	24.5	---	---	---
22	---	9.0	8.0	9.0	8.0	13.0	16.5	21.0	---	---	---	---
23	---	8.0	8.5	9.5	8.5	13.5	13.0	21.5	---	---	26.0	24.0
24	13.0	9.5	9.0	9.0	9.0	11.0	14.0	---	27.0	---	---	---
25	---	9.0	---	7.0	9.5	13.0	12.5	24.5	---	---	---	22.0
26	---	7.5	8.5	8.0	9.0	12.5	15.0	26.0	26.0	---	26.5	---
27	---	9.0	---	8.0	8.0	11.0	12.0	25.0	---	---	---	22.0
28	---	9.0	9.5	8.0	8.5	11.0	15.0	23.5	22.0	---	---	---
29	---	9.5	10.5	8.0	---	11.0	17.0	23.0	---	28.0	---	---
30	10.5	10.0	9.0	8.0	---	11.0	19.0	21.0	---	---	---	20.5
31	---	---	8.5	8.0	---	10.5	---	24.0	---	23.0	24.0	---
MONTH	---	10.5	8.0	8.0	8.5	11.0	13.0	21.0	---	---	---	---

11418500 DEER CREEK NEAR SMARTVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	2.2	2	.01	31	14	1.2	2060	92	793
2	2.0	2	.01	16	6	.26	317	11	9.4
3	1.9	2	.01	11	4	.12	175	9	4.3
4	2.3	2	.01	9.7	2	.05	122	11	3.6
5	2.5	2	.01	19	3	.15	97	8	2.1
6	2.6	2	.01	85	16	3.8	82	9	2.0
7	39	6	.63	628	82	186	75	8	1.6
8	48	4	.52	188	10	5.1	70	7	1.3
9	25	3	.20	303	34	85	64	6	1.0
10	12	3	.10	999	58	180	60	5	.81
11	7.2	2	.04	1570	163	1030	78	8	1.7
12	5.5	2	.03	1140	64	293	82	8	1.8
13	5.2	2	.03	551	25	41	198	11	5.9
14	5.3	2	.03	264	10	9.4	148	4	1.6
15	5.5	2	.03	116	8	2.5	92	3	.75
16	5.4	2	.03	532	23	42	79	4	.85
17	5.2	2	.03	1170	139	875	109	9	2.6
18	5.3	2	.03	602	19	37	91	4	.98
19	5.5	2	.03	236	10	6.4	72	4	.78
20	5.7	2	.03	176	12	5.7	64	4	.69
21	5.7	2	.03	175	9	4.3	266	9	6.5
22	46	7	1.6	119	8	2.6	474	9	12
23	115	24	8.3	96	6	1.6	228	2	1.2
24	43	5	.58	130	8	2.8	244	3	2.0
25	23	3	.19	99	6	1.6	222	4	2.4
26	14	3	.11	102	8	2.2	278	8	7.6
27	11	2	.06	75	5	1.0	1070	35	116
28	8.7	2	.05	63	3	.51	1010	21	67
29	6.4	2	.03	66	6	1.1	1680	53	297
30	5.8	3	.05	511	29	88	883	15	36
31	12	4	.13	---	---	---	616	12	20
MONTH	483.9	---	12.95	10082.7	---	2909.39	11106	---	1404.46

	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	552	10	15	309	7	5.8	2360	168	1700
2	427	8	9.2	267	6	4.3	2470	158	1560
3	374	10	10	235	5	3.2	965	50	130
4	345	8	7.5	220	6	3.6	634	37	63
5	343	5	4.6	211	6	3.4	512	28	39
6	448	6	7.3	193	7	3.6	456	23	28
7	513	8	11	183	7	3.5	656	30	64
8	405	7	7.7	165	6	2.7	749	26	57
9	322	6	5.2	159	5	2.1	479	15	19
10	284	6	4.6	158	6	2.6	417	13	15
11	270	6	4.4	152	5	2.1	438	12	14
12	550	15	22	160	5	2.2	860	51	152
13	510	7	9.6	175	6	2.8	522	11	16
14	853	50	199	160	5	2.2	450	9	11
15	1560	32	144	157	5	2.1	403	9	9.8
16	1140	25	86	211	8	4.6	379	8	8.2
17	1600	36	166	202	6	3.3	364	7	6.9
18	1410	30	120	168	5	2.3	346	7	6.5
19	1290	22	77	864	62	199	315	8	6.8
20	1010	21	57	460	10	13	293	7	5.5
21	778	19	40	316	10	7.4	278	4	3.0
22	614	15	25	299	18	14	266	3	2.2
23	465	15	19	261	10	7.0	255	4	2.8
24	446	13	16	226	9	5.5	243	5	3.3
25	400	10	11	206	8	4.4	251	5	3.4
26	361	10	9.7	215	8	4.6	268	5	3.6
27	320	9	7.8	222	6	3.6	523	22	32
28	298	10	8.0	239	7	4.5	1170	33	112
29	277	9	6.7	---	---	---	1550	37	169
30	255	8	5.5	---	---	---	2440	91	636
31	264	7	5.0	---	---	---	1510	49	209
MONTH	18684	---	1120.8	6793	---	319.4	22822	---	5088.0

11418500 DEER CREEK NEAR SMARTVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	2310	61	394	121	7	2.3	8.8	2	.05
2	1620	41	183	114	6	1.8	9.5	2	.05
3	1050	29	82	108	7	2.0	8.4	2	.05
4	815	25	55	98	10	2.6	8.6	3	.07
5	679	20	37	94	7	1.8	7.7	3	.06
6	594	16	26	90	6	1.5	7.1	3	.06
7	521	14	20	83	6	1.3	7.1	3	.06
8	479	13	17	73	8	1.6	6.4	4	.07
9	381	11	11	61	8	1.3	4.5	2	.02
10	382	10	10	54	6	.87	3.8	3	.03
11	326	8	7.0	50	5	.68	3.5	4	.04
12	287	7	5.4	46	6	.75	4.1	3	.03
13	250	8	5.4	41	6	.66	4.2	2	.02
14	221	6	3.6	40	6	.65	5.0	2	.03
15	207	7	3.9	37	5	.50	6.2	3	.05
16	188	6	3.0	36	4	.39	6.7	2	.04
17	173	5	2.3	36	4	.39	6.9	2	.04
18	157	4	1.7	38	4	.41	7.7	2	.04
19	174	4	1.9	37	3	.30	12	2	.06
20	190	4	2.1	35	3	.28	16	3	.13
21	185	4	2.0	31	4	.33	14	4	.15
22	172	4	1.9	28	6	.45	10	4	.11
23	180	5	2.4	24	6	.39	7.2	3	.06
24	235	8	5.1	22	4	.24	4.9	3	.04
25	219	8	4.7	21	4	.23	3.7	3	.03
26	196	5	2.6	16	4	.17	3.3	3	.03
27	178	4	1.9	14	5	.19	4.1	3	.03
28	161	4	1.7	10	5	.14	3.6	4	.04
29	148	7	2.8	9.0	4	.10	3.2	4	.03
30	133	6	2.2	9.7	2	.05	3.3	3	.03
31	---	---	---	9.2	3	.07	---	---	---
MONTH	12811	---	898.6	1485.9	---	24.44	201.5	---	1.55

	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	2.8	2	.02	8.1	4	.09	5.1	1	.01
2	2.8	1	.01	8.6	2	.05	4.7	2	.03
3	4.0	1	.01	7.6	2	.04	11	4	.12
4	4.4	1	.01	6.7	2	.04	10	3	.08
5	4.8	1	.01	6.2	2	.03	11	10	.30
6	4.9	1	.01	5.0	2	.03	10	4	.11
7	5.0	1	.01	4.9	2	.03	4.5	4	.05
8	141	48	34	5.1	2	.03	4.7	4	.05
9	174	17	10	4.7	2	.03	4.8	3	.04
10	57	2	.31	5.5	2	.03	10	5	.14
11	36	2	.19	6.2	2	.03	9.5	4	.10
12	27	3	.22	5.7	2	.03	10	5	.14
13	24	3	.19	5.2	2	.03	9.2	3	.07
14	24	3	.19	5.5	2	.03	4.5	2	.02
15	19	3	.15	5.9	2	.03	4.2	2	.02
16	15	4	.16	5.8	3	.05	4.2	3	.03
17	15	5	.20	5.7	3	.05	4.1	2	.02
18	15	4	.16	5.7	2	.03	4.0	2	.02
19	14	2	.08	5.5	2	.03	3.9	1	.01
20	13	2	.07	5.7	2	.03	4.1	1	.01
21	10	3	.08	5.9	2	.03	4.8	1	.01
22	10	4	.11	5.5	2	.03	4.6	1	.01
23	15	5	.20	5.4	3	.04	4.4	1	.01
24	11	4	.12	5.2	3	.04	4.8	1	.01
25	11	3	.09	5.0	3	.04	4.4	1	.01
26	12	3	.10	4.4	2	.02	4.9	1	.01
27	11	3	.09	7.2	4	.08	4.7	1	.01
28	11	3	.09	8.5	4	.09	4.5	1	.01
29	9.1	2	.05	8.4	4	.09	4.9	1	.01
30	8.4	2	.05	4.8	2	.03	4.7	1	.01
31	8.6	7	.16	5.2	1	.01	---	---	---
MONTH	719.8	---	47.14	184.8	---	1.24	180.2	---	1.47
YEAR	85554.8		11829.44						

11418500 DEER CREEK NEAR SMARTVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.								
07...	1730	13.5	840	27	61	--	--	--
09...	2330	13.5	1260	143	486	--	--	--
10...	1705	14.0	1520	88	361	--	--	--
11...	1020	14.0	3470	538	5040	27	33	42
11...	1210	14.0	2950	307	2450	--	--	--
12...	0645	12.5	2030	139	762	--	--	--
12...	1025	12.5	1400	41	155	--	--	--
17...	1820	11.0	3150	410	3490	29	38	46
JAN.								
14...	1730	8.0	1240	117	392	--	--	--
17...	0645	9.0	1990	49	263	--	--	--
FEB.								
19...	0730	8.0	1670	200	902	--	--	--
MAR.								
01...	2035	9.0	4500	414	5030	3	16	18
02...	0025	9.0	5770	552	8600	--	--	--
12...	0645	9.0	1400	112	423	--	--	--
27...	0720	11.0	584	41	65	--	--	--
29...	0715	11.0	1540	38	158	--	--	--
APR.								
01...	1435	11.0	2940	58	460	--	--	--
JULY								
08...	1530	20.0	242	87	57	--	--	--
08...	1900	20.5	340	1150	1060	--	--	--

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	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.								
07...	--	--	88	100	--	--	--	--
09...	--	--	92	96	100	--	--	--
10...	--	--	85	92	100	--	--	--
11...	52	63	71	81	89	95	100	--
11...	--	--	74	83	90	100	--	--
12...	--	--	65	76	86	96	100	--
12...	--	--	76	82	89	95	100	--
17...	55	65	73	82	89	94	99	100
JAN.								
14...	--	--	61	77	90	100	--	--
17...	--	--	44	50	100	--	--	--
FEB.								
19...	--	--	83	90	96	100	--	--
MAR.								
01...	24	31	41	56	77	92	97	100
02...	--	--	37	50	71	89	99	100
12...	--	--	72	80	90	99	100	--
27...	--	--	92	94	98	100	--	--
29...	--	--	49	55	80	100	--	--
APR.								
01...	--	--	89	94	99	100	--	--
JULY								
08...	--	--	99	100	--	--	--	--
08...	--	--	99	100	--	--	--	--

11421000 YUBA RIVER NEAR MARYSVILLE, CALIF.

LOCATION.--Lat 39°10'33", long 121°31'26", in New Helvetia Grant, Yuba County, temperature recorder at gaging station on left bank, 4.2 mi (6.8 km) northeast of Marysville, and 5 mi (8 km) downstream from Dry Creek.

DRAINAGE AREA.--1,339 mi² (3,468 km²).

PERIOD OF RECORD.--Water temperatures: November 1972 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 23.5°C July 28; minimum, 6.5°C Feb. 6.
Period of record:
Water temperatures: Maximum, 26.0°C July 29, 1973; minimum, 5.5°C Jan. 4-8, 1973.

REMARKS.--No record Feb. 20 to Apr. 4, Sept. 2-30.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	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	14.0	22.5	17.0	21.5	17.0	22.5	18.0
2	---	---	13.0	9.5	17.0	14.0	22.0	17.0	21.0	17.0	---	---
3	---	---	13.5	10.0	17.0	14.0	22.0	17.0	21.0	17.0	---	---
4	---	---	14.0	10.0	17.5	14.5	22.0	17.0	20.5	16.5	---	---
5	10.0	9.5	13.5	10.0	18.0	14.5	22.0	17.0	20.0	16.5	---	---
6	11.0	9.5	14.0	10.5	18.0	14.5	21.5	17.0	20.5	16.0	---	---
7	11.0	9.0	14.5	10.5	17.5	14.5	21.0	16.5	20.0	16.0	---	---
8	10.5	9.5	14.5	11.0	18.0	14.5	18.0	16.5	20.0	15.5	---	---
9	10.5	9.0	14.5	10.5	18.0	14.5	20.0	17.5	20.0	16.0	---	---
10	11.5	9.0	14.5	10.5	18.0	14.5	20.5	16.5	20.0	16.0	---	---
11	12.5	9.0	15.0	11.0	18.0	15.0	21.0	16.5	20.0	15.5	---	---
12	12.0	9.5	14.5	11.0	18.5	14.5	21.5	16.5	20.0	15.5	---	---
13	12.5	9.0	14.5	11.0	18.5	14.5	22.0	17.0	19.5	15.5	---	---
14	12.5	9.5	15.5	11.5	18.5	14.5	22.5	17.0	20.0	15.5	---	---
15	12.5	9.5	15.5	12.0	19.0	15.0	21.5	17.0	20.0	15.5	---	---
16	12.5	9.5	16.5	12.0	18.5	15.0	21.0	16.5	20.0	15.5	---	---
17	13.0	10.0	14.5	12.0	19.0	15.0	21.5	17.0	20.0	15.5	---	---
18	11.0	9.5	15.5	12.0	18.0	15.5	22.0	17.5	19.5	15.5	---	---
19	12.5	9.5	15.5	11.5	18.0	15.5	22.0	17.5	19.5	15.5	---	---
20	13.0	9.5	15.5	12.0	19.5	15.5	22.0	17.5	19.5	15.5	---	---
21	13.0	10.0	16.0	12.0	20.0	15.5	22.0	17.5	20.0	15.5	---	---
22	12.5	10.0	17.0	12.5	20.0	15.5	22.0	17.5	20.0	15.5	---	---
23	10.5	9.5	18.0	13.0	20.0	15.5	22.5	18.0	20.0	16.0	---	---
24	11.5	9.5	18.0	13.0	20.0	15.0	22.5	18.0	20.0	16.0	---	---
25	12.0	9.0	17.0	13.0	20.0	15.0	22.0	18.5	20.0	16.0	---	---
26	12.0	9.5	17.5	13.5	20.5	15.5	22.5	18.5	20.0	16.0	---	---
27	12.5	9.0	18.0	14.0	20.5	15.5	22.5	18.5	20.0	16.0	---	---
28	13.0	9.5	17.5	13.5	20.0	16.0	23.5	18.5	20.0	16.0	---	---
29	13.0	9.5	17.0	13.5	21.0	16.5	23.0	18.5	19.5	16.0	---	---
30	13.5	10.0	17.0	14.0	22.0	17.0	22.0	18.0	20.5	16.0	---	---
31	---	---	17.0	14.0	---	---	21.5	17.5	22.5	17.5	---	---
MONTH	13.5	9.0	18.0	9.5	22.0	14.0	23.5	16.5	22.5	15.5	---	---

11424000 BEAR RIVER NEAR WHEATLAND, CALIF.

LOCATION.--Lat 39°00'01", long 121°24'21", in SE¼SW¼ sec.3, T.13 N., R.5 E., Yuba County, near gaging station at bridge on U.S. Highway 99E, 1 mi (1.6 km) southeast of Wheatland, and 6.5 mi (10.5 km) downstream from Rock Creek.

DRAINAGE AREA.--292 mi^2 (756 km^2).

PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), October 1953 to September 1970, water year 1971 (partial-record station), October 1971 to September 1972, water year 1973 (partial-record station), October 1973 to current year.

REMARKS.--Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT., 1973								
04...	0900	16	9.7	--	4.2	--	45	0
NOV.								
08...	0930	27	8.2	--	4.2	--	42	0
DEC.								
05...	0950	1180	6.2	--	3.2	--	38	0
JAN., 1974								
07...	0820	2150	6.3	--	3.0	--	30	0
FEB.								
05...	0845	978	5.6	3.4	3.4	.9	31	0
MAR.								
04...	0920	2940	6.6	--	2.9	--	28	0
APR.								
03...	0900	4570	--	--	--	--	--	--
MAY								
08...	0800	247	--	--	--	--	--	--
SEP.								
03...	1515	27	12	6.8	4.8	--	64	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT., 1973									
04...	37	--	4.0	--	76	.10	3.28	48	11
NOV.									
08...	34	--	4.1	--	52	.07	3.79	42	8
DEC.									
05...	31	--	3.6	--	39	.05	124	33	2
JAN., 1974									
07...	25	--	2.8	--	30	.04	174	29	4
FEB.									
05...	25	5.9	2.6	.02	33	.04	87.1	28	3
MAR.									
04...	23	--	2.4	--	--	--	--	27	4
APR.									
03...	--	--	--	--	--	--	--	--	--
MAY									
08...	--	--	--	--	--	--	--	--	--
SEP.									
03...	52	--	3.1	--	93	.13	6.78	58	5

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
OCT., 1973								
04...	--	--	96	7.3	17.0	20	10.2	--
NOV.								
08...	--	--	103	7.4	15.0	1	10.4	--
DEC.								
05...	--	--	75	7.2	11.0	10	11.3	--
JAN., 1974								
07...	--	--	76	7.2	8.0	10	12.1	--
FEB.								
05...	20	.3	72	7.2	8.5	7	11.8	0
MAR.								
04...	--	--	66	7.2	8.5	25	12.5	--
APR.								
03...	--	--	--	--	--	20	--	--
MAY								
08...	--	--	--	--	--	2	--	--
SEP.								
03...	--	.3	128	8.2	28.5	0	9.4	--

11425100 FEATHER RIVER NEAR NICOLAUS, CALIF.

LOCATION.--Lat 38°51'39", long 121°37'22", in SW¼NE¼ sec.27, T.12 N., R.3 E., Sutter County, temperature recorder on left bank, 3.8 mi (6.1 km) downstream from gaging station at Nicolaus, 3.9 mi (6.3 km) southwest of Nicolaus, 6.6 mi (10.6 km) northeast of Knights Landing, and at mile 5.6 (9.0 km).
DRAINAGE AREA.--5,920 mi² (15,330 km²), at gaging station.
PERIOD OF RECORD.--Chemical analyses: March 1951 to June 1966 (published as sta 11425000 Feather River at Nicolaus, Calif.).
Water temperatures: March 1951 to September 1958, November 1959 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 25.0°C July 1, 2, 4; minimum, 7.0°C Jan. 10-12.
Period of record:
Water temperatures: Maximum (1951-58, 1959 to current year): Maximum, 34.5°C July 21, 1961; minimum (1951-58, 1959-66, 1967 to current year), freezing point Jan. 3-6, 1961.
REMARKS.--Prior to 1964 water year, thermograph located at gaging station at Nicolaus (sta 11425000), 3.8 mi (6.1 km) upstream. Clock stopped Dec. 17-27; range in temperature, 9.0°C to 10.5°C. No record Mar. 14 to Apr. 4.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	15.5	14.5	19.0	17.5	25.0	20.5	22.5	20.5	21.0	18.5
2	---	---	15.5	14.5	19.0	17.5	25.0	21.0	23.0	21.5	21.5	19.0
3	---	---	15.5	14.0	19.5	18.0	24.5	22.0	23.0	21.5	21.0	18.5
4	---	---	15.5	14.5	19.5	18.5	25.0	21.5	23.0	21.5	20.5	18.5
5	11.5	11.0	16.0	15.0	20.0	19.0	24.5	21.5	23.0	21.5	20.5	18.0
6	12.0	11.0	16.5	15.0	20.5	19.0	23.0	21.0	23.5	21.5	20.5	18.0
7	12.0	11.5	17.5	15.5	19.5	17.5	22.0	21.0	22.5	20.5	20.5	18.0
8	12.0	11.5	18.0	16.5	19.5	17.5	22.0	20.0	21.5	19.5	20.0	17.5
9	11.5	11.0	18.0	16.5	20.0	18.0	21.5	20.0	20.5	19.0	20.0	17.0
10	11.5	11.0	17.0	16.0	20.5	18.5	21.0	19.5	20.5	18.5	20.0	18.0
11	12.0	11.5	17.5	16.0	21.0	19.5	21.0	19.5	20.5	18.5	19.0	17.5
12	12.5	12.0	17.5	16.5	20.5	18.5	21.0	19.0	21.5	19.0	19.0	16.5
13	12.5	12.0	17.0	16.0	20.5	18.5	21.5	19.0	21.0	19.0	18.5	16.0
14	13.0	12.0	17.0	15.5	20.5	18.5	22.0	19.5	20.5	18.5	19.0	16.5
15	13.5	12.5	17.0	15.5	20.5	18.0	22.0	20.0	20.5	18.5	19.0	16.5
16	13.5	12.5	16.5	15.5	19.0	17.5	21.0	19.5	20.5	19.0	19.0	16.0
17	13.5	13.0	16.0	14.5	19.5	17.5	21.5	19.5	21.0	19.0	18.5	16.5
18	13.0	12.0	15.5	14.0	19.5	17.5	22.0	20.0	21.0	19.0	18.5	16.5
19	12.5	11.5	16.0	14.5	19.0	17.5	22.0	20.0	20.5	19.0	18.0	16.0
20	13.0	12.0	16.0	15.0	19.0	17.0	22.5	20.5	20.5	19.0	18.5	16.0
21	13.5	12.5	17.0	15.0	20.0	18.0	23.0	20.5	20.5	19.0	18.5	16.5
22	13.5	13.0	17.5	15.5	21.0	19.0	23.5	21.5	21.0	19.0	19.0	16.5
23	13.5	12.5	19.5	16.5	21.0	18.5	24.0	22.0	21.5	19.5	19.0	17.0
24	12.5	12.0	20.0	17.0	21.0	18.5	23.5	22.0	21.5	19.5	19.0	17.0
25	12.5	11.5	20.5	18.0	21.0	18.0	22.5	21.5	21.5	20.0	18.0	16.5
26	13.0	12.0	20.5	18.5	22.0	18.0	23.0	21.0	21.5	20.0	17.5	15.5
27	13.5	12.0	21.0	19.0	22.5	18.5	23.5	21.5	21.5	20.0	17.5	15.0
28	14.0	13.0	20.0	19.0	22.0	19.5	23.5	21.5	20.5	19.5	17.5	15.0
29	15.0	13.5	21.0	17.5	22.5	20.0	24.0	21.5	20.0	18.5	18.0	15.5
30	15.5	14.0	19.5	18.0	23.0	20.5	23.5	21.5	19.5	18.5	18.0	15.5
31	---	---	19.0	17.5	---	---	22.5	21.5	20.5	18.0	---	---
MONTH	15.5	11.0	21.0	14.0	23.0	17.0	25.0	19.0	23.5	18.0	21.5	15.0

11427000 NORTH FORK AMERICAN RIVER AT NORTH FORK DAM, CALIF.

LOCATION.--Lat 38°56'10", long 121°01'22", in SW¼NW¼ sec.31, T.13 N., R.9 E., Placer County, temperature recorder at gaging station on left bank, 50 ft (15 m) upstream from spillway of North Fork Dam, 2 mi (3 km) upstream from Middle Fork, and 4 mi (6 km) northeast of Auburn.

DRAINAGE AREA.--342 mi^2 (886 km^2).

PERIOD OF RECORD.--Water temperatures: November 1959 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 28.0°C Aug. 4, 5; minimum, 7.5°C on several days during November to February.
Period of record:
Water temperatures: Maximum, 28.0°C Aug. 4, 5, 1974; minimum, 4.5°C Jan. 21, 1967.

REMARKS.--No record Feb. 25 to Mar. 8, Mar. 15-18.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	21.5	16.0	16.0	7.5	7.5	9.5	9.0	9.0	9.0	---	---
2	21.5	21.0	16.0	15.5	8.0	7.5	9.0	8.5	9.0	8.5	---	---
3	21.0	20.5	15.5	14.5	8.0	8.0	8.5	8.0	8.5	8.5	---	---
4	20.5	20.5	14.5	14.5	8.0	8.0	8.0	8.0	8.5	8.5	---	---
5	20.5	20.5	14.5	14.5	8.0	8.0	8.0	8.0	8.5	8.0	---	---
6	20.5	20.0	14.5	14.0	8.0	8.0	8.0	7.5	8.0	8.0	---	---
7	20.0	20.0	14.0	13.5	8.0	8.0	7.5	7.5	8.0	8.0	---	---
8	20.0	19.5	13.5	12.5	8.0	8.0	7.5	7.5	8.0	8.0	---	---
9	19.5	19.5	12.5	12.5	8.0	8.0	7.5	7.5	8.0	8.0	9.5	9.5
10	19.5	19.0	12.5	12.5	8.0	8.0	8.0	7.5	8.0	8.0	9.5	9.5
11	19.5	19.0	12.5	11.0	8.0	8.0	8.0	8.0	8.0	8.0	10.0	9.5
12	19.0	18.5	11.0	11.0	8.5	8.0	8.0	8.0	8.0	8.0	10.0	10.0
13	18.5	18.0	11.0	10.5	8.5	8.5	8.0	8.0	8.0	8.0	10.0	10.0
14	18.0	18.0	10.5	10.0	8.5	8.5	8.5	8.0	8.0	8.0	10.5	10.0
15	18.0	18.0	10.0	10.0	8.5	8.5	8.5	8.0	8.0	8.0	---	---
16	18.0	18.0	10.0	10.0	8.5	8.5	8.5	8.5	8.0	8.0	---	---
17	18.0	18.0	10.0	9.5	8.5	8.5	9.0	8.5	8.0	7.5	---	---
18	18.0	18.0	9.5	9.5	8.5	8.5	9.0	9.0	7.5	7.5	---	---
19	18.0	18.0	9.5	9.0	8.5	8.5	9.5	9.0	7.5	7.5	12.0	12.0
20	18.0	18.0	9.0	8.5	8.5	8.5	9.5	9.5	7.5	7.5	12.0	12.0
21	18.0	18.0	8.5	8.5	8.5	8.5	9.5	9.5	8.0	7.5	12.0	12.0
22	18.0	18.0	8.5	8.0	8.5	8.5	9.5	9.5	8.0	8.0	12.0	12.0
23	18.0	18.0	8.0	8.0	8.5	8.5	9.5	9.0	8.0	8.0	12.0	12.0
24	18.0	17.5	8.0	7.5	8.5	8.5	9.0	9.0	8.0	8.0	12.0	12.0
25	17.5	17.0	7.5	7.5	9.0	8.5	9.0	9.0	---	---	12.0	12.0
26	17.0	17.0	7.5	7.5	9.0	9.0	9.0	9.0	---	---	12.0	12.0
27	17.0	17.0	7.5	7.5	9.0	9.0	9.0	9.0	---	---	12.0	12.0
28	17.0	16.5	7.5	7.5	9.0	9.0	9.0	9.0	---	---	12.0	11.5
29	16.5	16.0	7.5	7.5	9.5	9.0	9.0	9.0	---	---	11.5	11.0
30	16.0	16.0	7.5	7.5	9.5	9.5	9.0	9.0	---	---	11.0	11.0
31	16.0	16.0	---	---	9.5	9.5	9.0	9.0	---	---	11.0	10.5
MONTH	21.5	16.0	16.0	7.5	9.5	7.5	9.5	7.5	9.0	7.5	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.5	12.0	11.5	15.0	14.5	22.5	21.5	27.0	26.5	25.0	24.5
2	10.5	10.5	12.0	12.0	15.0	15.0	23.0	22.5	27.0	26.5	25.0	24.5
3	10.5	10.5	12.0	12.0	15.5	15.0	23.0	23.0	27.5	27.0	25.0	24.5
4	10.5	10.5	12.5	12.0	16.0	15.5	24.0	23.0	28.0	27.5	25.0	24.5
5	10.5	10.5	12.5	12.0	16.0	15.5	24.0	23.5	28.0	27.5	25.0	24.5
6	10.5	10.5	12.5	12.5	16.0	15.5	24.0	23.5	27.5	27.5	24.5	24.5
7	10.5	10.5	12.5	12.5	16.5	16.0	23.5	23.5	27.5	27.5	24.5	24.0
8	11.0	10.5	12.5	12.5	16.5	16.0	23.5	23.0	27.5	27.0	24.5	24.0
9	11.0	11.0	12.5	12.5	17.5	16.0	23.0	19.5	27.5	27.0	24.5	24.0
10	11.0	10.5	12.5	12.0	17.0	16.0	19.5	17.0	27.0	27.0	24.5	24.0
11	10.5	10.5	12.5	12.0	17.5	16.5	18.0	17.0	27.0	27.0	24.5	24.0
12	10.5	10.5	12.5	12.0	17.5	16.5	19.0	18.0	27.0	27.0	24.5	24.0
13	11.0	10.5	12.5	12.5	17.5	17.0	20.0	19.0	27.0	26.0	24.0	24.0
14	11.5	11.0	12.5	12.0	18.5	17.0	22.0	20.0	26.0	25.5	24.0	24.0
15	12.0	11.5	12.5	12.0	18.5	17.5	22.0	21.0	25.5	25.0	24.0	24.0
16	12.0	11.5	12.5	12.0	18.5	17.5	23.0	22.0	25.0	24.5	24.0	23.5
17	12.0	11.0	12.5	12.0	18.5	18.0	23.0	22.5	25.0	24.5	24.0	23.5
18	11.5	11.0	12.5	12.0	18.5	17.5	24.0	23.0	24.5	24.5	24.0	23.5
19	11.5	10.5	12.0	12.0	18.5	18.0	25.0	24.0	24.5	24.5	23.5	23.5
20	10.5	10.5	12.0	11.5	18.0	18.0	25.0	25.0	24.5	23.5	23.5	23.5
21	11.0	10.5	12.5	11.5	19.5	17.5	25.5	25.0	23.5	23.5	23.5	23.5
22	11.0	10.5	13.0	12.5	19.5	19.0	25.5	25.5	23.5	23.5	23.5	23.0
23	11.0	10.5	14.0	13.0	20.0	19.5	26.0	25.5	23.5	23.5	23.0	23.0
24	11.0	10.5	14.0	14.0	20.5	19.5	26.5	26.0	24.0	23.5	23.0	23.0
25	10.5	10.0	14.5	14.0	20.5	20.0	26.5	26.5	24.5	24.0	23.0	23.0
26	10.0	10.0	14.5	14.0	20.5	20.0	26.5	26.5	24.5	24.0	23.0	22.5
27	10.0	10.0	15.0	14.0	20.0	20.0	26.5	26.5	25.0	24.5	23.0	22.5
28	10.5	10.0	15.0	14.5	20.5	20.0	26.5	26.0	25.0	24.5	23.0	23.0
29	11.0	10.5	14.5	14.5	21.0	20.5	26.5	26.0	25.0	25.0	23.0	23.0
30	11.5	11.0	14.5	14.5	21.5	21.0	26.5	26.0	25.0	25.0	23.5	23.0
31	---	---	15.0	14.5	---	---	26.5	26.5	25.0	24.5	---	---
MONTH	12.0	10.0	15.0	11.5	21.5	14.5	26.5	17.0	28.0	23.5	25.0	22.5

11433400 CANYON CREEK NEAR GEORGETOWN, CALIF.

LOCATION.--Lat 38°56'03", long 120°52'21", in SW¼NW¼ sec.33, T.13 N., R.10 E., El Dorado County, Eldorado National Forest, temperature recorder at gaging station on right bank, 0.7 mi (1.1 km) downstream from West Canyon, and 2.6 mi (4.2 km) northwest of Georgetown.

DRAINAGE AREA.--12.5 mi^2 (32.4 km^2).

PERIOD OF RECORD.--Water temperatures: July 1966 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 20.0°C on several days during August; minimum, 1.5°C Jan. 6.
Period of record:
Water temperatures: Maximum (1966-72, 1973 to current year), 23.5°C July 22, 1966; minimum, 1.0°C Dec. 17, 18, 1967, Jan. 30 to Feb. 2, 1972.

REMARKS.--No record Oct. 1-18.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	9.5	7.5	8.0	7.0	5.5	5.0	7.5	7.0	8.5	7.5
2	---	---	9.0	7.0	7.0	6.0	5.0	4.0	6.5	5.0	7.5	6.5
3	---	---	8.0	6.5	6.5	5.5	5.0	4.5	6.0	5.0	8.0	6.5
4	---	---	7.0	5.0	6.0	5.0	5.5	5.0	6.5	5.0	7.5	6.0
5	---	---	7.5	6.5	7.0	6.0	5.0	4.0	6.0	4.5	8.0	6.0
6	---	---	9.0	7.5	6.5	5.5	4.0	1.5	6.0	4.0	8.0	6.5
7	---	---	10.0	8.5	6.5	6.0	5.0	3.0	6.0	4.0	7.5	6.5
8	---	---	10.0	9.0	6.0	5.0	4.5	3.5	6.5	4.5	8.0	6.5
9	---	---	9.5	8.5	5.5	5.0	4.5	4.0	6.5	5.0	8.0	6.0
10	---	---	10.0	9.0	5.5	4.5	5.0	4.0	7.0	5.0	8.0	6.5
11	---	---	10.5	9.5	6.0	5.0	5.0	4.0	6.5	5.0	8.0	7.0
12	---	---	10.0	9.0	6.0	5.5	5.5	5.0	7.0	6.0	9.0	7.5
13	---	---	9.5	7.0	7.5	6.0	6.0	5.5	6.5	5.5	9.5	6.5
14	---	---	9.0	8.0	7.0	5.5	6.0	5.5	7.0	5.5	10.5	8.0
15	---	---	8.5	8.0	5.5	5.0	7.0	6.0	7.0	5.5	10.5	8.0
16	---	---	9.0	8.5	6.0	5.0	7.5	7.0	7.5	6.5	11.0	9.0
17	---	---	9.5	8.5	7.5	6.0	8.0	7.5	6.5	5.0	11.0	9.0
18	---	---	8.5	7.5	6.5	5.0	8.5	7.5	6.5	5.5	11.5	8.5
19	12.0	9.0	7.5	6.5	5.5	5.0	9.0	8.5	8.0	6.5	11.0	7.5
20	12.5	11.0	7.0	6.0	6.5	5.0	8.5	8.0	7.0	5.0	11.0	7.5
21	12.5	11.0	7.5	6.5	7.0	6.5	8.0	6.5	6.5	5.5	11.0	7.5
22	11.5	11.0	7.0	6.0	7.5	6.5	7.0	6.0	7.0	5.5	11.0	9.0
23	11.0	9.5	6.5	5.5	7.0	6.0	7.0	6.0	7.0	5.0	11.5	9.0
24	10.5	8.0	6.5	6.0	6.5	5.5	7.0	6.0	7.5	5.0	11.5	8.0
25	10.0	7.5	6.5	5.5	7.5	6.0	6.5	6.0	8.0	5.5	10.0	9.0
26	9.5	7.5	6.5	6.0	7.5	7.0	6.0	5.5	7.5	7.0	11.0	9.5
27	9.5	7.5	6.5	6.0	8.0	7.0	6.0	5.0	8.0	6.5	10.0	9.0
28	9.5	7.0	6.0	5.0	8.5	8.0	6.5	5.0	8.0	7.5	10.5	9.0
29	9.0	7.0	7.0	5.5	8.5	8.5	6.5	5.0	---	---	10.0	9.5
30	9.5	7.0	7.5	7.0	8.5	7.0	6.0	5.0	---	---	10.0	8.5
31	9.5	7.5	---	---	7.0	5.5	7.0	5.5	---	---	9.0	8.0
MONTH	---	---	10.5	5.0	8.5	4.5	9.0	1.5	8.0	4.0	11.5	6.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.5	15.0	10.5	16.5	12.5	19.5	15.5	20.0	17.0	17.5	14.0
2	10.0	8.0	14.5	10.0	17.5	13.5	19.0	15.0	20.0	17.0	17.5	14.0
3	10.0	8.0	14.5	10.5	17.5	13.5	19.0	15.0	20.0	17.0	17.5	14.0
4	11.0	7.5	15.0	10.5	17.0	14.0	19.0	15.0	20.0	17.5	17.0	13.5
5	10.5	9.0	15.5	11.0	17.5	14.0	19.0	15.0	20.0	18.0	17.0	13.5
6	11.5	8.5	16.0	11.5	18.0	14.0	18.5	15.0	20.0	17.0	17.0	14.0
7	11.5	8.0	16.5	12.0	17.5	13.5	17.5	14.0	19.5	17.0	17.5	14.0
8	11.5	9.0	16.5	12.5	17.0	13.0	15.5	14.0	19.0	15.5	17.0	14.0
9	10.5	8.5	16.0	12.0	17.0	13.0	14.5	14.0	19.0	15.5	16.5	13.5
10	11.5	8.0	16.0	12.0	18.0	13.5	16.0	13.0	19.0	16.0	17.0	13.5
11	12.5	8.5	16.0	12.0	18.0	14.0	16.0	12.5	19.0	15.5	16.5	13.5
12	13.0	9.0	15.5	12.0	18.0	14.0	16.5	12.5	18.5	15.5	16.0	13.0
13	13.0	8.5	14.5	11.5	18.5	14.0	17.5	13.5	18.0	15.0	15.5	12.5
14	13.0	9.0	15.0	11.0	18.0	14.0	18.0	14.0	17.5	13.5	15.5	12.5
15	13.5	10.0	14.5	11.0	17.5	14.0	18.0	14.0	17.0	13.5	15.5	12.5
16	13.5	9.0	13.5	10.0	16.5	14.0	17.5	13.5	17.0	13.5	15.5	12.0
17	14.0	9.5	11.5	10.0	17.0	13.5	17.5	13.5	17.0	13.5	15.5	12.0
18	11.5	10.0	11.5	8.5	16.0	13.5	18.0	14.5	17.0	14.0	15.0	12.0
19	12.0	9.5	12.0	8.0	15.0	13.0	18.5	15.0	16.5	13.0	15.5	12.0
20	13.5	9.0	13.0	9.0	16.5	12.5	19.0	15.5	16.5	12.5	15.5	12.0
21	13.5	9.0	14.0	9.5	17.5	13.5	18.5	15.0	17.0	13.5	15.5	12.0
22	13.5	9.5	14.5	10.5	18.0	14.5	18.5	15.0	17.5	14.0	15.5	13.0
23	11.5	9.0	15.0	10.5	18.0	14.0	18.5	15.5	17.5	14.0	15.5	12.5
24	9.0	7.5	15.5	11.0	17.5	13.0	19.0	16.0	18.0	14.0	15.5	12.5
25	11.0	7.0	16.5	12.0	16.5	13.0	18.0	16.5	18.0	14.0	15.5	12.5
26	10.5	8.5	17.0	13.0	16.5	12.5	19.0	16.0	17.5	14.5	15.5	12.5
27	12.5	7.5	17.0	13.5	17.0	12.5	19.0	16.5	17.5	14.0	15.0	12.5
28	13.5	8.5	16.5	13.0	18.0	13.5	19.0	16.5	17.0	14.0	14.5	12.5
29	14.0	9.0	16.0	12.0	18.5	14.5	19.0	16.0	17.0	14.0	14.5	11.5
30	15.0	10.0	16.0	12.0	19.0	15.5	19.0	16.0	17.0	14.0	14.0	10.5
31	---	---	16.0	12.0	---	---	19.5	16.5	17.5	14.0	---	---
MONTH	15.0	7.0	17.0	8.0	19.0	12.5	19.5	12.5	20.0	12.5	17.5	10.5

11439500 SOUTH FORK AMERICAN RIVER NEAR KYBURZ, CALIF.

LOCATION.--Lat 38°45'49", long 120°19'39", in SW¼SW¼ sec.29, T.11 N., R.15 E., El Dorado County, Eldorado National Forest, temperature recorder at gaging station on right bank beside U.S. Highway 50, 0.8 mi (1.3 km) downstream from Silver Fork, and 1.9 mi (3.1 km) southwest of Kyburz.
DRAINAGE AREA.--193 mi^2 (500 km^2).
PERIOD OF RECORD.--Water temperatures: August 1966 to current year.
EMES.--Current year:
Water temperatures: Maximum, 23.0°C July 30, 31; minimum, freezing point on several days during January to March.
Period of record:
Water temperatures: Maximum (1967-69, 1970 to current year), 25.0°C July 16-18, 1972; minimum, freezing point on many days in most years.
REMARKS.--No record Oct. 7 to Dec. 10, Mar. 25.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	10.0			---	---	2.0	1.5	2.5	2.0	1.5	0.0
2	11.5	8.5			---	---	2.0	0.5	3.0	2.5	2.0	0.0
3	11.0	8.0			---	---	0.5	0.0	3.0	1.0	2.0	0.0
4	10.5	7.5			---	---	0.5	0.0	2.0	1.5	3.5	1.5
5	10.5	7.5			---	---	1.0	0.0	2.5	1.5	4.0	2.5
6	10.0	8.0			---	---	1.0	0.5	2.5	1.0	3.5	2.0
7	---	---			---	---	1.0	0.0	1.5	0.0	3.5	2.0
8	---	---			---	---	1.0	0.0	1.5	0.5	4.0	2.0
9	---	---			---	---	1.0	0.5	2.0	1.0	4.0	3.0
10	---	---			---	---	1.0	0.5	2.5	1.0	4.5	3.0
11	---	---			2.0	1.5	1.0	0.0	2.5	1.5	5.0	3.5
12	---	---			2.0	1.5	1.0	0.0	3.0	1.5	5.5	3.0
13	---	---			2.0	1.5	2.5	1.0	2.5	1.5	6.0	4.0
14	---	---			1.5	1.0	2.5	2.0	2.5	0.0	5.5	3.5
15	---	---			1.5	1.0	2.5	1.5	1.5	1.0	5.5	4.0
16	---	---			2.5	1.5	2.5	1.5	2.5	1.5	5.0	3.5
17	---	---			3.5	2.0	3.0	2.5	2.5	1.0	5.5	3.5
18	---	---			2.0	1.0	3.5	2.5	2.0	0.5	5.5	3.5
19	---	---			1.5	1.0	3.5	3.0	2.0	1.0	5.5	3.5
20	---	---			2.5	1.0	4.5	3.0	2.0	1.5	5.5	3.5
21	---	---			2.5	1.5	4.0	2.5	2.5	1.0	5.5	3.5
22	---	---			2.0	1.5	3.0	2.0	2.5	1.0	5.5	3.0
23	---	---			2.0	1.5	2.0	1.0	3.0	1.0	6.0	3.5
24	---	---			2.0	1.0	2.5	2.0	3.0	1.5	5.5	4.0
25	---	---			3.0	1.5	3.0	2.0	2.5	2.0	---	---
26	---	---			3.0	3.0	3.0	2.0	3.5	2.0	6.0	4.5
27	---	---			3.0	3.0	3.0	1.5	3.5	2.5	5.5	4.5
28	---	---			3.0	2.0	2.0	0.5	3.5	2.0	5.5	3.5
29	---	---			3.0	2.5	2.0	1.5	---	---	5.5	4.5
30	---	---			3.0	2.0	2.5	1.5	---	---	5.0	3.0
31	---	---			2.5	2.0	2.0	1.5	---	---	4.0	2.5
MONTH	---	---			---	---	4.5	0.0	3.5	0.0	6.0	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	3.5	3.0	8.5	5.0	11.5	7.5	17.5	14.5	21.0	17.0	19.0	14.0
2	4.0	2.5	8.5	4.5	11.0	7.5	17.0	14.0	22.0	17.5	19.0	14.0
3	5.0	2.5	8.0	4.5	11.5	7.5	17.0	14.0	22.5	17.5	19.5	14.5
4	6.0	3.0	8.5	4.5	11.5	7.5	17.5	14.0	20.5	17.0	19.0	14.0
5	5.5	4.0	9.0	4.5	12.5	8.0	17.0	14.0	20.0	16.5	19.0	13.5
6	6.5	4.0	8.0	5.5	13.0	8.5	17.0	13.5	21.0	16.5	19.0	14.0
7	6.0	3.5	9.5	5.0	12.0	8.0	16.5	13.0	22.0	16.5	19.0	14.5
8	6.5	4.0	9.5	5.0	12.0	7.5	14.5	13.0	21.5	15.5	19.0	15.0
9	5.0	3.0	9.0	5.0	13.0	8.5	13.0	12.0	21.5	15.5	19.0	14.5
10	5.5	2.5	9.0	4.5	13.5	9.0	13.0	11.5	21.0	15.5	18.5	14.0
11	7.5	4.0	9.5	5.0	14.0	9.5	14.0	10.0	22.0	15.5	18.0	14.0
12	7.0	4.5	8.5	5.0	14.0	9.5	16.0	12.0	21.5	15.5	17.5	13.5
13	7.0	3.5	8.5	5.0	14.5	10.0	17.0	13.0	20.0	15.0	17.0	13.0
14	7.5	4.0	9.0	4.5	14.5	10.0	17.5	13.5	18.5	13.5	16.5	12.5
15	7.5	4.5	8.5	4.5	14.0	10.0	17.5	14.0	19.5	13.0	16.5	12.0
16	7.0	4.0	7.5	4.5	13.0	10.5	17.0	13.5	20.0	14.0	16.0	11.5
17	7.5	4.0	5.5	4.0	13.5	10.0	17.0	13.0	19.0	14.0	16.0	11.5
18	6.5	4.0	4.5	3.0	13.0	10.5	18.0	13.5	19.5	14.0	16.5	12.0
19	6.5	3.5	6.0	3.5	11.5	9.5	18.5	14.5	18.5	13.5	16.0	11.5
20	7.0	4.5	7.5	4.0	13.5	9.0	19.0	15.0	18.5	12.5	16.0	12.0
21	8.0	4.0	8.5	5.0	15.0	11.5	19.0	15.0	18.5	13.0	16.0	11.5
22	7.5	4.5	9.5	5.5	15.0	12.0	20.0	15.5	19.5	13.5	16.5	12.5
23	6.5	3.0	10.0	5.5	15.0	12.0	20.5	16.0	19.5	14.0	15.5	12.0
24	2.5	1.5	10.5	6.0	14.5	11.5	21.0	16.5	19.5	14.0	16.0	12.0
25	4.5	2.0	11.0	6.0	14.0	11.0	18.5	17.0	20.0	14.5	16.0	12.0
26	5.0	3.0	11.0	6.5	13.5	10.0	21.0	16.0	19.5	14.5	16.0	12.5
27	6.0	3.0	10.5	6.5	14.5	11.0	22.0	16.5	19.0	14.5	15.0	12.0
28	7.5	4.0	10.5	6.5	16.0	12.5	22.5	16.5	19.5	14.5	15.0	11.5
29	8.0	5.0	10.0	5.5	18.0	14.5	22.0	17.5	19.5	14.5	14.5	11.0
30	8.5	4.5	11.0	5.5	18.0	15.0	23.0	17.0	19.0	14.5	14.0	10.5
31	---	---	11.0	6.5	---	---	23.0	17.5	19.0	14.5	---	---
MONTH	8.5	1.5	11.0	3.0	18.0	7.5	23.0	10.0	22.5	12.5	19.5	10.5

11445500 SOUTH FORK AMERICAN RIVER NEAR LOTUS, CALIF.

LOCATION.--Lat 38°49'07", long 120°56'45", in NW¼SW¼ sec.11, T.11 N., R.9 E., El Dorado County, temperature recorder at gaging station on left bank, 0.4 mi (0.6 km) downstream from Greenwood Creek, 2.4 mi (3.9 km) northwest of Lotus, and 3.3 mi (5.3 km) northwest of Coloma.
DRAINAGE AREA.--673 mi^2 (1,743 km^2).
PERIOD OF RECORD.--Chemical analyses: July 1958 to September 1963, water years 1964-66 (partial-record station).
Water temperatures: December 1959 to September 1968, February 1970 to current year.
Sediment records: Water years 1957-62 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 21.0°C July 29, 30; minimum, 4.0°C Jan. 9-11.
Period of record:
Water temperatures: Maximum, 29.5°C July 20, 1960; minimum (1959-68, 1970 to current year), 1.0°C on several days in 1960 and 1962.
REMARKS.--No record Mar. 24 to Apr. 10.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	10.0	8.0	12.5	10.5	20.5	16.0	20.5	16.5	17.0	13.5
2	---	---	10.5	8.5	12.5	11.0	17.5	15.0	19.0	16.0	17.5	15.5
3	---	---	10.5	9.0	13.0	11.5	17.5	14.0	18.5	15.5	17.5	14.5
4	---	---	10.5	8.5	13.0	11.5	19.5	14.5	18.5	15.5	16.0	13.5
5	---	---	11.0	8.5	13.5	11.5	19.0	16.0	19.0	16.0	16.0	13.0
6	---	---	11.0	9.0	13.0	11.0	17.5	14.5	18.0	14.5	16.0	13.0
7	---	---	11.0	9.0	13.5	11.5	18.5	14.5	18.0	14.5	16.0	13.5
8	---	---	11.0	9.5	14.5	12.0	16.0	15.0	17.5	14.5	16.0	14.0
9	---	---	11.0	9.5	14.0	12.5	15.5	14.5	17.5	14.5	17.0	13.5
10	---	---	11.0	9.5	14.0	12.0	15.5	14.0	17.5	14.0	16.0	13.5
11	9.0	7.0	11.0	9.5	14.0	12.0	15.5	14.0	17.0	14.0	16.0	13.5
12	9.0	7.0	11.0	9.5	14.0	12.0	17.0	14.0	18.0	14.5	16.0	13.0
13	9.5	7.0	10.5	9.5	14.5	12.0	17.0	13.5	16.5	13.5	16.0	13.0
14	10.5	7.5	11.0	9.0	14.5	12.5	17.5	13.5	16.5	13.5	16.0	13.0
15	10.0	8.0	10.5	9.0	14.5	12.5	18.5	14.5	16.5	13.5	16.0	13.5
16	10.0	7.5	10.5	8.5	14.5	12.5	17.5	15.0	16.0	13.0	16.5	13.5
17	10.0	8.0	9.5	8.5	14.5	12.5	18.5	14.0	16.0	13.0	16.0	13.0
18	8.5	8.0	9.5	8.0	14.0	12.5	19.0	14.5	16.0	13.0	16.0	13.0
19	9.5	8.0	9.0	7.5	14.0	12.0	19.5	14.5	16.5	13.5	16.0	13.0
20	10.0	7.5	9.0	7.5	15.0	12.0	20.0	15.0	16.0	12.5	15.5	13.0
21	10.0	7.5	10.0	7.0	15.0	12.0	18.5	17.5	16.0	13.5	16.0	13.0
22	9.5	8.0	10.5	8.0	15.0	12.0	20.5	16.5	17.5	13.0	16.0	13.5
23	8.0	8.0	11.0	8.5	16.5	12.0	20.0	15.5	16.0	13.0	16.5	13.5
24	8.5	8.0	12.0	9.0	16.0	12.5	20.5	15.5	16.0	12.5	16.0	13.5
25	8.5	7.0	11.5	9.5	15.5	12.0	19.5	16.0	16.0	13.5	15.5	13.5
26	7.5	6.0	12.5	10.0	16.0	12.5	20.0	15.5	16.5	13.5	15.5	13.5
27	8.0	6.0	12.0	10.0	16.5	12.5	20.5	16.0	16.0	13.0	15.5	13.5
28	9.5	6.5	12.0	10.5	18.0	13.5	20.5	18.5	15.5	13.0	16.0	13.5
29	9.0	7.0	12.0	10.5	17.0	13.5	21.0	18.0	15.5	13.0	16.0	13.5
30	9.5	7.5	11.5	10.5	17.5	14.5	21.0	16.5	15.5	13.0	16.0	13.0
31	---	---	12.0	10.0	---	---	20.5	16.5	16.0	13.0	---	---
MONTH	---	---	12.5	7.0	18.0	10.5	21.0	13.5	20.5	12.5	17.5	13.0

11446500 AMERICAN RIVER AT FAIR OAKS, CALIF.

LOCATION.--Lat 38°38'08", long 121°13'36", in SE¼NE¼ sec.17, T.9 N., R.7 E., Sacramento County, temperature recorder at gaging station on right bank, 2,100 ft (640 m) downstream from Nimbus Dam, 2.4 mi (3.9 km) east of Fair Oaks, 8.1 mi (13.0 km) downstream from South Fork, and at mile 22.2 (35.7 km).
DRAINAGE AREA.--1,888 mi² (4,890 km²).
PERIOD OF RECORD.--Chemical analyses: January to December 1906, March 1951 to September 1958, November 1959 to September 1962.
Water temperatures: March 1951 to September 1958, November 1959 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 18.0°C Sept. 3; minimum, 6.5°C Jan. 17, 18.
Period of record:
Water temperatures (1951-58, 1959 to current year): Maximum (1951-58, 1959-64, 1965-69, 1970 to current year), 27.0°C July 27, Aug. 3, 1954; minimum, freezing point on several days in 1957 and 1958.
REMARKS.--Recorder malfunction Apr. 19-25, June 12 to July 23.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	10.0	12.0	11.5	13.0	12.5	---	---	16.0	16.0	17.5	17.5
2	10.5	10.0	11.5	11.5	13.0	10.5	---	---	16.0	16.0	17.5	17.5
3	10.0	10.0	12.0	11.5	13.0	13.0	---	---	16.0	16.0	18.0	17.5
4	10.5	10.0	12.0	11.5	13.0	12.5	---	---	16.0	16.0	17.5	17.5
5	10.0	10.0	12.0	11.5	13.0	12.5	---	---	16.5	16.5	17.5	17.5
6	10.0	10.0	12.0	11.5	13.0	13.0	---	---	16.5	16.5	17.5	17.5
7	10.5	10.0	12.0	12.0	13.0	13.0	---	---	16.5	16.0	17.5	17.5
8	10.5	10.0	12.0	12.0	13.0	13.0	---	---	16.5	16.5	17.5	17.5
9	10.5	10.0	12.0	12.0	13.0	13.0	---	---	16.5	16.0	17.5	17.5
10	10.0	9.5	12.0	12.0	13.0	13.0	---	---	16.5	16.0	17.5	17.5
11	10.5	10.0	12.0	12.0	13.0	13.0	---	---	16.5	16.5	17.5	17.5
12	10.5	10.0	12.0	12.0	---	---	---	---	16.5	16.5	17.5	17.5
13	10.5	10.0	12.0	12.0	---	---	---	---	16.5	16.5	17.5	17.5
14	11.0	10.0	12.0	12.0	---	---	---	---	16.5	16.5	17.5	17.5
15	11.0	10.0	12.0	12.0	---	---	---	---	16.5	16.5	17.5	17.5
16	10.0	9.5	12.5	12.0	---	---	---	---	16.5	16.5	17.5	17.5
17	10.0	9.5	12.5	12.0	---	---	---	---	16.5	16.5	17.5	17.5
18	10.5	9.5	12.0	12.0	---	---	---	---	17.0	16.5	17.5	17.5
19	---	---	12.0	12.0	---	---	---	---	17.0	17.0	17.5	17.5
20	---	---	12.0	12.0	---	---	---	---	17.0	17.0	17.5	17.5
21	---	---	12.5	12.0	---	---	---	---	17.0	17.0	17.5	17.5
22	---	---	12.5	12.0	---	---	---	---	17.0	17.0	17.5	17.5
23	---	---	12.5	12.0	---	---	---	---	17.0	17.0	17.5	17.5
24	---	---	12.5	12.0	---	---	16.5	15.0	17.0	17.0	17.5	17.5
25	---	---	12.5	12.0	---	---	15.5	15.5	17.5	17.0	17.5	17.5
26	11.0	11.0	12.5	12.5	---	---	15.5	15.5	17.5	17.5	17.5	17.5
27	11.5	11.0	12.5	12.5	---	---	15.5	15.5	17.5	17.5	17.5	17.0
28	11.5	11.5	12.5	12.0	---	---	16.0	15.5	17.5	17.5	17.0	17.0
29	11.5	11.5	12.5	12.0	---	---	16.0	15.5	17.5	17.5	16.5	16.5
30	12.0	11.5	12.5	12.5	---	---	16.0	15.5	17.5	17.5	16.5	16.5
31	---	---	12.5	12.5	---	---	16.0	16.0	17.5	17.5	---	---
MONTH	---	---	12.5	11.5	---	---	---	---	17.5	16.0	18.0	16.5

11447030 STRONG RANCH SLOUGH AT SACRAMENTO, CALIF.

LOCATION.--Lat 38°36'09", long 121°23'40", in NE¼SW¼ sec.29, T.9 N., R.5 E., Sacramento County, at gaging station on right bank 3.0 mi (4.8 km) upstream from mouth, and 1.2 mi (1.9 km) east of Sacramento city limits.

DRAINAGE AREA.--5.02 mi^2 (13.00 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1972 to current year (winter season only).
Specific conductance: December 1972 to September 1973 (winter season only).
Sediment records: August 1972 to current year (winter season only).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV.											
05...	1500	18	14	240	13	4.4	11	5.0	42	0	34
05...	1800	90	3.5	130	4.2	1.4	2.0	2.3	14	0	11
05...	2400	22	5.4	2000	6.8	1.9	2.6	2.8	20	0	16
13...	1600	17	23	90	13	4.5	11	3.5	60	0	49
13...	1900	350	5.4	120	5.0	1.6	2.7	2.4	20	--	16
13...	2250	27	12	150	11	4.2	5.1	5.5	46	--	38
17...	1205	17	--	--	--	--	--	--	52	0	43
17...	1600	682	--	--	--	--	--	--	18	0	15
17...	2030	34	--	--	--	--	--	--	48	0	39
DEC.											
21...	0650	24	--	--	--	--	--	--	26	0	21
21...	0845	82	--	--	--	--	--	--	19	0	16
21...	1030	39	--	--	--	--	--	--	21	0	17
FEB.											
28...	1620	13	15	60	14	4.2	12	2.7	57	0	47
28...	2345	76	3.1	70	6.9	1.1	2.0	1.4	16	0	13
MAR.											
01...	1240	19	9.9	130	11	3.4	4.5	3.0	41	0	34

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	SODIUM ADSORPTION RATIO	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
NOV.										
05...	12	15	.2	--	--	.68	.7	.25	--	1.8
05...	5.0	2.6	.1	--	--	.36	.2	.14	--	1.7
05...	5.9	2.7	.1	--	--	.56	.2	.13	--	.97
13...	10	13	.2	--	--	.60	.7	.10	--	1.5
13...	4.6	2.7	.1	--	--	.34	.3	.11	--	2.2
13...	6.7	7.3	.3	--	--	.80	.3	.12	--	1.7
17...	--	--	--	.34	.09	--	--	--	.11	--
17...	--	--	--	.38	.23	--	--	--	.20	--
17...	--	--	--	1.4	.13	--	--	--	.80	--
DEC.										
21...	--	--	--	.90	.20	--	--	--	.38	--
21...	--	--	--	.55	.21	--	--	--	.46	--
21...	--	--	--	.51	.27	--	--	--	.42	--
FEB.										
28...	9.8	16	.2	--	--	.75	.7	.45	--	2.2
28...	5.9	1.9	.1	--	--	.61	.2	1.0	--	1.0
MAR.										
01...	8.5	5.6	.2	--	--	.92	.3	.78	--	1.2

11447030 STRONG RANCH SLOUGH AT SACRAMENTO, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (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)
NOV.										
05...	--	2.0	--	2.7	.71	.31	127	100	.17	6.17
05...	--	1.8	--	2.2	.43	.14	38	30	.05	9.23
05...	--	1.1	--	1.7	.40	.18	39	43	.05	2.32
13...	--	1.6	--	2.2	.72	.45	122	112	.17	5.60
13...	--	2.3	--	2.6	.58	.17	55	37	.07	52.0
13...	--	1.8	--	2.6	.68	.39	108	80	.15	7.87
17...	1.2	1.5	1.3	--	.31	.15	117	--	.16	5.37
17...	.90	2.4	1.1	--	.56	.24	58	--	.08	107
17...	1.5	28	2.3	--	1.1	.74	120	--	.16	11.0
DEC.										
21...	.82	1.3	1.2	--	.17	.06	70	--	.10	4.54
21...	1.1	1.7	1.6	--	.19	.07	44	--	.06	9.74
21...	.23	1.2	.65	--	.27	.08	44	--	.06	4.63
FEB.										
28...	--	2.6	--	3.4	.34	.20	131	106	.18	4.60
28...	--	2.0	--	2.6	.36	.14	52	34	.07	10.7
MAR.										
01...	--	2.0	--	2.9	.47	.27	98	71	.13	5.03

DATE	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	CHEM-ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV.										
05...	51	17	145	6.7	--	--	170	36	4000	.7
05...	16	5	43	6.5	--	--	110	11	2400	.3
05...	25	9	57	6.8	--	--	48	8.4	1400	.2
13...	51	2	168	7.2	14.0	9.1	--	10	4200	--
13...	19	3	55	7.4	12.0	9.3	--	7.4	29000	--
13...	45	7	120	7.4	12.0	8.7	--	6.6	39600	--
17...	--	--	150	7.1	13.5	9.3	52	7.4	--	.2
17...	--	--	65	7.2	14.0	9.2	54	4.8	--	.0
17...	--	--	140	7.3	12.5	9.3	54	10	--	.1
DEC.										
21...	--	--	145	7.0	12.0	10.5	52	15	--	.1
21...	--	--	64	7.0	13.0	10.2	45	8.3	--	.0
21...	--	--	85	7.0	13.0	10.3	48	7.1	--	.0
FEB.										
28...	52	6	173	7.2	11.5	10.8	66	24	50000	.2
28...	22	9	54	6.8	11.0	10.0	55	8.0	22000	.1
MAR.										
01...	41	8	110	7.2	12.5	9.6	42	7.0	34000	.1

11447030 STRONG RANCH SLOUGH AT SACRAMENTO, CALIF.--Continued

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)
NOV.											
05...	1500	--	--	--	--	3	2	75	200	.2	.0
05...	1800	--	--	--	--	2	0	12	300	.1	.0
05...	2400	--	--	--	--	5	0	21	100	.0	.0
13...	1600	7	7	80	10	1	--	51	400	.0	.0
13...	1900	13	12	70	<10	2	--	12	400	.1	.0
13...	2250	14	11	90	<10	0	--	5	100	.0	.0
FEB.											
28...	1620	10	5	70	<10	0	--	77	300	.0	.0
28...	2345	10	5	40	10	0	--	16	200	.2	.0
MAR.											
01...	1240	14	14	90	<10	0	--	22	100	4.7	.0

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)
NOV.										
05...	1500	.00	.1	.00	.00	.00	.19	.02	.00	.00
05...	1800	.00	.1	.00	.00	.00	.07	.02	.00	.00
05...	2400	.00	.1	.00	.00	.00	.10	.02	.00	.00
13...	1600	.00	.2	.00	.00	.00	.08	.02	.00	.00
13...	1900	.00	.3	.00	.00	.02	.10	.06	.00	.00
13...	2250	.00	.2	.00	.00	.00	.04	.04	.00	.00
FEB.										
28...	1620	.00	.1	.00	.00	.00	.14	.02	.00	.00
28...	2345	.00	.2	.03	.00	.02	.31	.04	.00	.00
MAR.										
01...	0040	.00	.1	.00	.00	.00	.31	.03	.00	.00

DATE	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
NOV.									
05...	.00	.01	.00	.00	.00	.0	.16	.06	.01
05...	.00	.01	.00	.00	.00	.0	.03	.00	.00
05...	.00	.01	.00	.00	.00	.0	.14	.04	.01
13...	.00	.00	.00	.00	.00	.0	.00	.01	.01
13...	.00	.00	.00	.00	.00	.0	.08	.08	.01
13...	.03	.00	.00	.00	.00	.0	.07	.03	.01
FEB.									
28...	.00	.01	.01	.00	.00	.0	.49	.02	.01
28...	.00	.02	.01	.00	.00	.0	.50	.07	.01
MAR.									
01...	.00	.05	.01	.00	.00	.0	.51	.05	.01

11447030 STRONG RANCH SLOUGH AT SACRAMENTO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM
NOV.									
05...	1500	--	18	172	8.4	--	--	--	--
05...	2000	--	108	258	75	--	--	--	--
05...	2400	--	22	54	3.2	--	--	--	--
10...	1110	19.0	43	185	21	--	--	--	--
10...	1120	19.0	58	218	34	--	--	--	--
10...	1410	19.0	27	103	7.5	--	--	--	--
13...	1610	14.0	19	139	7.1	36	49	66	82
13...	1900	12.0	350	443	419	30	38	50	64
13...	2250	12.0	27	75	5.5	58	70	82	91
17...	1205	13.5	17	36	1.7	--	--	--	--
17...	1600	14.0	682	300	552	--	--	--	--
17...	2030	12.5	34	109	10	--	--	--	--
30...	1800	--	32	100	8.6	--	--	--	--
30...	2200	--	115	243	75	--	--	--	--
DEC.									
01...	0200	--	408	252	278	23	31	35	41
01...	0700	--	42	94	11	--	--	--	--
21...	0650	12.0	24	115	7.5	--	--	--	--
21...	0845	13.0	82	178	39	37	49	61	74
21...	1030	13.0	39	113	12	--	--	--	--
27...	1545	--	23	91	5.7	--	--	--	--
27...	1645	--	38	120	12	--	--	--	--
27...	2145	--	157	252	107	20	26	33	40
28...	0115	--	49	84	11	--	--	--	--
28...	0345	--	19	46	2.4	--	--	--	--
JAN.									
04...	0950	9.0	76	129	26	--	--	--	--
04...	1100	9.0	72	101	20	--	--	--	--
16...	1315	15.0	40	110	12	--	--	--	--
FEB.									
28...	1620	11.5	13	51	1.8	--	--	--	--
28...	2345	11.0	76	147	30	36	49	64	79
MAR.									
01...	1240	12.5	19	38	1.9	--	--	--	--

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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM
NOV.								
05...	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
13...	93	--	97	--	99	--	100	--
13...	77	88	--	98	--	100	--	--
13...	96	--	98	--	100	--	--	--
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
DEC.								
01...	46	--	52	--	66	--	89	100
01...	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--
21...	86	--	93	--	98	--	100	--
21...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	48	58	--	82	--	100	--	--
28...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
JAN.								
04...	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
FEB.								
28...	--	--	94	--	99	--	100	--
28...	90	--	95	--	99	--	100	--
MAR.								
01...	--	--	98	--	100	--	--	--

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.
(International Hydrological Decade River Station)

LOCATION.--Lat 38°35'12", long 121°30'16", Sacramento County, at gaging station 1,000 ft (300 m) upstream from I Street Bridge, in city of Sacramento, and 0.5 mi (0.8 km) downstream from American River.

DRAINAGE AREA.--23,508 mi^2 (60,886 km^2).

PERIOD OF RECORD.--Chemical analyses: January to December 1906, December 1907 to December 1908, water years 1951-52 (partial-record station), October 1952 to May 1960. Published as "above Sacramento" in 1906-8.
Water temperatures: May 1955 to current year.
Sediment records: October 1956 to current year.
Turbidity: October 1971 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 24.0°C July 3, 22, 24, 25; minimum, 6.0°C Jan. 11.
Sediment concentrations: Maximum daily, 420 mg/l Nov. 12; minimum daily, 14 mg/l Nov. 5.
Sediment discharge: Maximum daily, 44,000 tons (39,900 tonnes) Nov. 12, 15; minimum daily, 609 tons (552 tonnes) Nov. 5.
Period of record:
Water temperatures: Maximum (1955-62, 1963-66, 1967 to current year), 28.0°C on several days in 1969 and 1970; minimum (1955 to current year), 3.0°C Dec. 14, 1973.
Sediment concentrations: Maximum daily, 1,960 mg/l Dec. 24, 1964; minimum daily, 11 mg/l Nov. 30, 1959 (estimated), and Nov. 28, 1969.
Sediment discharge: Maximum daily, 525,000 tons (476,000 tonnes) Dec. 24, 1964; minimum daily, 200 tons or 181 tonnes (estimated), Dec. 14, 1959.

REMARKS.--Chemical-quality analyses for Sacramento River at Green's Landing, near Courtland (sta 11417810) and the maximum-minimum temperature record for the auxiliary station approximately 8 mi (13 km) downstream, Sacramento River at Freeport (sta 11447650), are considered as being part of this IHD station.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	---	---	---	8.5	---	10.5	15.0	---	---	22.5	---
2	17.0	13.5	10.5	8.0	9.0	11.0	10.5	15.5	19.5	23.0	---	---
3	16.5	14.0	---	7.5	9.0	9.5	11.0	16.0	19.0	24.0	---	22.0
4	17.0	14.0	9.0	6.5	9.0	9.0	12.0	---	20.0	---	---	22.0
5	17.0	15.0	9.5	---	9.0	10.0	11.5	---	20.5	---	22.5	22.5
6	---	---	9.5	---	11.0	11.0	---	17.5	21.0	---	23.0	20.5
7	---	14.0	9.5	7.5	10.0	8.5	---	17.0	---	---	---	22.0
8	16.5	13.0	9.5	7.5	11.0	9.0	12.5	18.5	21.0	19.0	---	---
9	---	14.0	---	7.0	9.0	---	12.0	18.0	21.0	19.0	---	20.5
10	---	14.0	8.5	7.0	10.0	---	12.0	19.0	20.5	19.0	---	21.5
11	15.5	14.0	10.5	6.0	10.5	---	13.5	17.0	20.0	19.5	20.0	21.5
12	15.5	14.0	---	---	11.0	10.0	13.5	---	20.0	20.5	18.5	21.5
13	18.0	13.0	11.0	9.0	11.0	10.5	14.0	17.0	20.0	---	---	20.0
14	21.5	---	10.5	---	11.0	11.5	---	16.0	---	---	---	---
15	---	12.5	---	10.5	11.0	---	---	16.5	---	21.5	---	---
16	17.5	12.5	9.5	10.0	11.0	---	14.0	16.0	---	21.5	---	20.0
17	17.5	13.0	10.5	11.5	10.0	13.0	---	15.0	18.5	23.0	---	20.0
18	---	---	11.0	11.0	10.5	---	---	---	19.0	22.0	---	20.0
19	---	12.0	---	10.0	11.0	13.5	13.0	---	18.5	22.0	---	21.0
20	16.0	13.0	9.5	9.0	---	11.5	13.0	15.0	19.0	---	20.5	---
21	16.5	12.0	11.0	8.0	10.0	12.0	---	16.0	---	---	21.0	---
22	14.5	12.5	10.5	8.0	9.5	12.0	13.0	16.5	22.0	24.0	20.5	---
23	15.5	10.0	9.0	8.0	9.5	---	13.0	18.0	---	23.5	21.0	21.0
24	15.5	9.0	---	7.5	---	---	---	---	21.0	24.0	---	21.5
25	---	11.5	---	---	---	---	12.5	---	20.0	24.0	---	19.5
26	15.0	11.0	10.0	8.0	9.0	11.5	13.0	---	21.0	---	22.0	19.0
27	14.5	10.5	10.0	8.5	9.0	11.5	---	---	---	---	21.0	---
28	14.5	12.0	11.0	8.5	8.0	12.0	14.5	18.0	---	---	21.0	---
29	14.5	12.0	---	9.0	---	---	16.0	18.0	---	23.5	22.0	---
30	14.5	---	9.0	8.5	---	11.0	15.5	19.5	---	23.5	20.0	19.5
31	14.5	---	---	8.0	---	12.5	---	19.0	---	22.5	---	---
MONTH	---	12.5	---	8.5	10.0	---	---	---	---	---	---	---

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	17200	19	882	15900	24	1030	63900	126	21700
2	16900	25	1140	16100	22	956	69200	132	24700
3	16800	31	1410	16100	20	869	68800	121	22500
4	16900	32	1460	16100	16	696	67700	116	21200
5	16700	30	1350	16100	14	609	66000	122	21700
6	16700	28	1260	16500	17	757	65200	87	15300
7	16800	27	1220	16600	16	717	64600	76	13300
8	16600	27	1210	17600	22	1050	64100	77	13300
9	16700	26	1170	19200	80	4150	63200	69	11800
10	16900	24	1100	21500	105	6100	62600	67	11300
11	17900	21	1010	25000	209	14100	61700	74	12300
12	18200	23	1130	38800	420	44000	60600	67	11000
13	17000	24	1100	50400	276	37600	59200	56	8950
14	16200	21	919	59200	228	36400	58300	56	8810
15	16100	23	1000	64700	252	44000	56500	66	10100
16	15800	23	981	71800	196	38000	54500	78	11500
17	17900	21	1010	75300	168	34200	52500	77	10900
18	18500	18	899	77000	140	29100	50800	103	14100
19	17900	20	967	76300	116	23900	49700	121	16200
20	16000	23	994	75000	88	17800	48400	99	12900
21	15200	25	1030	74100	94	18800	49900	69	9300
22	15500	24	1000	71300	87	16700	51200	53	7330
23	16200	25	1090	66800	90	16200	56600	126	19300
24	16600	27	1210	66000	88	15700	60200	198	32200
25	17000	26	1190	66000	82	14600	63600	121	20800
26	17100	23	1060	64700	97	16900	64500	96	16700
27	16700	21	947	63200	94	16000	66700	77	13900
28	16200	21	919	62300	96	16100	67300	78	14200
29	16200	25	1090	61100	84	13900	69700	70	13200
30	16100	23	1000	60400	72	11700	77000	91	18900
31	15900	21	902	---	---	---	76400	143	29500
MONTH	518400	---	33650	1441100	---	492634	1910600	---	488890

	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	76500	169	34900	72100	115	22400	39200	115	12200
2	75900	114	23400	71600	90	17400	53300	110	15800
3	72600	100	19600	71000	75	14400	68100	132	24300
4	69200	80	14900	70400	92	17500	70400	222	42200
5	68500	65	12000	69300	140	26200	68800	174	32300
6	68500	60	11100	67300	155	28200	66700	120	21600
7	69100	58	10800	65700	150	26600	66100	138	24600
8	71300	57	11000	64200	150	26000	67800	156	28600
9	68800	63	11700	62000	140	23400	70100	186	35200
10	63000	62	10500	58500	160	25300	71400	180	34700
11	61800	61	10200	54700	150	22200	71400	156	30100
12	60200	68	11100	48500	150	19600	70900	99	19000
13	59200	76	12100	42800	145	16800	70800	88	16800
14	60400	83	13500	43000	150	17400	70100	76	14400
15	65300	87	15300	44800	135	16300	68500	73	13500
16	76000	105	21500	44300	160	19100	65200	86	15100
17	81500	121	26600	44100	175	20800	63000	90	15300
18	90400	120	29300	43600	150	17700	63500	130	22300
19	93400	114	28700	42500	98	11200	64700	105	18300
20	94200	107	27200	42800	96	11100	65400	65	11500
21	94100	132	33500	44300	95	11400	65700	69	12200
22	90700	116	28400	45400	92	11300	65700	66	11700
23	81700	92	20300	45100	86	10500	65700	63	11200
24	79200	100	21400	44000	83	9860	65500	63	11100
25	78000	65	13700	42600	93	10700	64600	62	10800
26	77500	78	16300	41700	121	13600	60700	63	10300
27	76600	140	29000	40900	120	13300	55000	76	11300
28	75600	165	33700	39700	138	14800	51600	115	16000
29	74500	160	32200	---	---	---	53500	140	20200
30	73300	140	27700	---	---	---	64600	135	23500
31	72600	105	20600	---	---	---	77100	125	26000
MONTH	2319600	---	632200	1466900	---	495060	2005100	---	612100

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	84000	120	27200	35300	130	12400	26800	61	4410
2	90700	118	28900	32600	110	9680	27000	60	4370
3	91900	100	24800	29500	82	6530	29100	54	4240
4	91800	83	20600	27600	75	5590	29400	55	4370
5	91200	69	17000	26300	75	5330	29600	55	4400
6	87000	68	16000	24900	73	4910	28400	51	3910
7	82800	68	15200	23600	61	3890	27700	50	3740
8	80200	67	14500	25500	69	4750	27200	52	3820
9	77800	82	17200	28600	105	8110	26300	53	3760
10	76200	82	16900	29100	120	9430	25500	54	3720
11	73900	77	15400	29000	105	8220	24700	49	3270
12	71900	99	19200	30700	105	8700	24200	48	3140
13	70800	110	21000	32000	100	8640	23300	52	3270
14	70200	90	17100	32400	100	8750	22700	49	3000
15	68400	70	12900	32600	95	8360	23700	49	3140
16	68000	75	13800	30900	80	6670	25600	49	3390
17	67500	80	14600	29400	85	6750	25200	48	3270
18	66800	82	14800	30900	95	7930	22700	46	2820
19	66100	82	14600	31500	88	7480	23300	48	3020
20	65300	88	15500	32200	68	5910	24400	53	3490
21	63400	90	15400	32200	69	6000	24700	52	3470
22	59100	115	18400	31400	60	5090	24800	50	3350
23	52700	130	18500	29700	50	4010	24400	49	3230
24	46700	120	15100	26100	50	3520	23400	47	2970
25	43000	110	12800	25900	51	3570	22000	41	2440
26	38900	110	11600	27300	53	3910	20700	42	2350
27	37100	110	11000	27500	54	4010	19700	46	2450
28	35300	110	10500	28000	56	4230	18400	45	2240
29	34100	110	10100	27900	55	4140	18700	44	2220
30	35700	120	11600	27200	63	4630	18800	46	2330
31	---	---	---	26700	66	4760	---	---	---
MONTH	1988500	---	492200	904500	---	195900	732400	---	99600

	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	17800	53	2550	21900	38	2250	24800	54	3620
2	17200	52	2410	21900	39	2310	24800	55	3680
3	17400	46	2160	21800	39	2300	25100	56	3800
4	17800	45	2160	21900	38	2250	24500	56	3700
5	17600	42	2000	22000	38	2260	25200	54	3670
6	17800	39	1870	22200	38	2280	26300	56	3980
7	17800	38	1830	22100	37	2210	26600	54	3880
8	18400	37	1840	22200	38	2280	26900	52	3780
9	21500	50	2900	22300	39	2350	27300	56	4130
10	24200	64	4180	22800	40	2460	27400	54	3990
11	26600	86	6180	23300	42	2640	27600	54	4020
12	27100	80	5850	23800	47	3020	27600	60	4470
13	26700	69	4970	24100	52	3380	27200	53	3890
14	25800	62	4320	24200	51	3330	27000	50	3650
15	24900	57	3830	24300	50	3280	26600	50	3590
16	24300	52	3410	24500	50	3310	26500	54	3860
17	24100	51	3320	24500	50	3310	26500	47	3360
18	23600	47	2990	24500	50	3310	26500	43	3080
19	23200	48	3010	24800	50	3350	26000	40	2810
20	22800	49	3020	24900	49	3290	25200	40	2720
21	22500	48	2920	24900	45	3030	24200	40	2610
22	22400	44	2660	25000	42	2840	23400	38	2400
23	21700	42	2460	25000	50	3380	22900	37	2290
24	21200	41	2350	25100	50	3390	22600	38	2320
25	20900	44	2480	25300	47	3210	22800	34	2090
26	20700	42	2350	25400	44	3020	22700	32	1960
27	21600	40	2330	25300	44	3010	22100	33	1970
28	21800	38	2240	25600	56	3870	22000	34	2020
29	21600	36	2100	25700	50	3470	21800	34	2000
30	21600	36	2100	25800	49	3410	21700	34	1990
31	21700	36	2110	25300	53	3620	---	---	---
MONTH	674300	---	90900	742400	---	91420	751800	---	95330
YEAR	15455600		3819884						

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	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.										
19...	1300	11.0	--	75700	110	22500	22	25	30	35
19...	1305	11.0	--	76200	104	21400	22	25	30	35
21...	1055	10.5	--	74400	98	19700	16	18	22	27
DEC.										
05...	1535	9.0	--	65500	126	22300	25	32	36	39
17...	0950	9.5	--	52900	84	12000	17	23	30	39
17...	0955	9.5	--	54200	84	12300	17	23	30	39
JAN.										
11...	1430	6.5	--	64200	68	11800	26	36	48	63
11...	1435	6.5	--	62000	71	11900	26	36	48	63
19...	1215	10.0	--	93500	119	30000	16	22	27	31
23...	1125	8.0	--	82800	114	25500	20	27	32	36
24...	1210	9.0	--	79700	122	26300	30	36	42	44
24...	1215	9.0	--	79500	135	29000	30	36	42	44
28...	1715	--	--	75000	104	21100	32	41	47	53
FEB.										
04...	1620	8.0	--	70000	88	16600	38	48	54	61
13...	1500	9.0	--	42800	152	17600	23	33	43	58
27...	1310	9.0	--	39300	98	10400	--	--	--	--
27...	1315	9.0	--	40900	96	10600	--	--	--	--
MAR.										
22...	1355	12.0	--	66000	70	12500	24	34	43	51
22...	1400	12.0	--	65500	66	11700	24	34	43	51
APR.										
05...	1330	12.0	--	92400	70	17500	11	17	23	28
05...	1350	--	--	91800	70	17400	11	17	23	28
08...	1255	12.0	--	80700	56	12200	31	42	47	53
08...	1325	12.0	--	80300	55	11900	31	42	47	53
10...	1330	11.5	--	75400	66	13400	26	36	42	47
15...	1200	12.5	--	67900	70	12800	23	30	41	52
15...	1215	12.5	--	68100	61	11200	23	30	41	52
SEP.										
19...	1305	19.0	26000		38	2670	--	--	--	--
19...	1310	19.0	26000	--	36	2530	--	--	--	--

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. FALL DIAM. % FINER THAN .250 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.										
19...	41	--	46	--	60	--	81	98	100	--
19...	41	--	46	--	60	--	81	98	100	--
21...	31	--	35	--	47	--	79	99	100	--
DEC.										
05...	41	--	45	--	53	--	72	97	100	--
17...	47	--	58	--	72	--	92	99	100	--
17...	47	--	58	--	72	--	92	99	100	--
JAN.										
11...	78	95	--	96	--	100	--	--	--	--
11...	78	95	--	96	--	100	--	--	--	--
19...	35	--	40	--	41	--	52	82	100	--
23...	39	--	44	--	56	--	76	99	100	--
24...	47	--	51	--	52	--	60	73	97	100
24...	47	--	51	--	52	--	60	73	97	100
28...	56	--	61	--	62	--	70	89	99	100
FEB.										
04...	68	--	75	--	79	--	80	94	100	--
13...	74	--	87	--	95	--	98	100	--	--
27...	--	--	76	--	90	--	97	100	--	--
27...	--	--	76	--	90	--	97	100	--	--
MAR.										
22...	58	--	66	--	78	--	97	100	--	--
22...	58	--	66	--	78	--	97	100	--	--
APR.										
05...	32	--	35	--	43	--	70	96	99	100
05...	32	--	35	--	43	--	70	96	99	100
08...	58	--	62	--	71	--	91	100	--	--
08...	58	--	62	--	71	--	91	100	--	--
10...	51	--	55	--	64	--	85	99	100	--
15...	62	--	70	--	79	--	94	100	--	--
15...	62	--	70	--	79	--	94	100	--	--
SEP.										
19...	--	--	83	--	93	--	98	100	--	--
19...	--	--	83	--	93	--	98	100	--	--

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
OCT.			
01...	2200	21	10
02...	2000	28	10
03...	2300	32	10
04...	2120	33	10
05...	2230	28	10
08...	2330	27	10
11...	1810	21	10
12...	2235	25	9
13...	1915	22	10
14...	2130	22	10
16...	1810	24	10
17...	0010	18	8
20...	2240	24	10
21...	2340	25	10
22...	2230	23	10
23...	1830	26	10
24...	2040	26	10
26...	2130	23	8
27...	2315	30	10
28...	2330	25	9
29...	2100	25	10
30...	2230	20	8
NOV.			
02...	2035	21	8
03...	2000	20	8
04...	2230	13	8
05...	2200	18	10
07...	2230	17	8
08...	2000	26	9
09...	1400	92	30
10...	1630	93	30
11...	1630	233	55
12...	1400	378	65
13...	1630	189	55
15...	2130	168	55
16...	1300	126	55
16...	2230	128	45
17...	2130	114	30
19...	1225	82	30
19...	1300	110	--
19...	1305	104	--
19...	1330	142	30
19...	2100	85	25
20...	0030	65	25
20...	2000	78	25
21...	1040	88	25
21...	1055	98	--
21...	1110	126	25
21...	2100	74	25
22...	1030	68	25
22...	2200	54	20
23...	1600	86	25
24...	1930	68	25
25...	2000	86	20
26...	1200	88	85
26...	1220	170	--
26...	1255	104	25
26...	2200	70	20
27...	1530	89	35
28...	1600	87	30
29...	1500	74	30
DEC.			
02...	1835	95	30
04...	0045	94	35
05...	1510	127	40
05...	1535	126	--
05...	1615	92	40
05...	1745	102	40
06...	0045	78	30
07...	0045	114	25
08...	2130	64	25
10...	0045	64	20
11...	0045	67	20
13...	1900	50	20
14...	2145	52	15
16...	2215	74	20
17...	0045	63	20
17...	0925	72	20
17...	0950	84	--
17...	0955	84	--
DEC.			
17...	1020	66	20
18...	0045	98	25
20...	0045	88	25
21...	2100	57	15
22...	2130	48	25
23...	2215	185	55
26...	0045	86	30
27...	0045	68	30
28...	0045	65	30
30...	0945	81	25
JAN.			
02...	0045	98	45
03...	1745	56	35
04...	1745	71	25
07...	1745	99	20
08...	1745	57	20
09...	1745	64	20
10...	1745	60	20
11...	0045	62	15
11...	1410	79	20
11...	1430	68	--
11...	1435	71	--
11...	1450	91	15
13...	1830	78	20
15...	2145	88	25
16...	2000	110	30
17...	1500	105	30
18...	0900	112	40
18...	1245	86	25
19...	0045	88	90
19...	1150	98	30
19...	1215	119	--
19...	1235	100	25
19...	1730	88	30
19...	2230	84	25
20...	1400	30	20
20...	2230	104	20
21...	2245	124	25
22...	2300	85	50
23...	1105	99	30
23...	1125	114	--
23...	1145	92	35
23...	2300	88	45
24...	1150	123	55
24...	1210	122	--
24...	1215	135	--
24...	1235	116	50
24...	2330	79	45
26...	2030	92	40
27...	2300	164	60
28...	1650	81	50
28...	1715	104	--
28...	1745	83	45
28...	2300	158	60
29...	2345	170	65
30...	2300	114	55
31...	1805	106	55
FEB.			
01...	2330	116	60
02...	2200	40	20
03...	1600	89	45
04...	1550	88	55
04...	1620	88	--
04...	1645	86	50
04...	2230	156	75
05...	1800	166	65
06...	2145	141	45
07...	2300	166	50
08...	2200	132	50
09...	1930	157	50
10...	2200	147	55
11...	2100	176	55
12...	2130	132	50
13...	1430	154	50
13...	1500	152	--
13...	1530	156	50
13...	2200	158	50
14...	2200	138	60
15...	2000	154	55
16...	1400	159	60

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
FEB.			
17...	1930	188	55
18...	2200	120	50
19...	1330	97	40
21...	2130	95	45
22...	1400	24	30
23...	2300	54	40
26...	2200	128	50
27...	1250	78	30
27...	1310	98	--
27...	1315	96	--
27...	1335	89	30
27...	2330	118	45
28...	2330	122	45
MAR.			
02...	2030	90	35
03...	2300	150	60
04...	2200	193	55
05...	2330	108	35
06...	2200	99	35
07...	2200	119	45
08...	2345	148	55
12...	1810	80	35
13...	0045	82	30
14...	1745	74	25
17...	2045	96	25
18...	1730	156	35
19...	1745	81	25
20...	1745	62	20
21...	0045	71	25
22...	1335	64	25
22...	1355	70	--
22...	1400	66	--
22...	1425	70	25
22...	1745	64	25
26...	0045	62	20
27...	1745	82	25
28...	1330	122	30
30...	2110	123	30
31...	1415	122	30
APR.			
01...	1730	92	25
02...	0045	96	30
02...	2125	82	30
03...	1745	76	25
04...	1730	56	20
05...	1300	53	20
05...	1330	70	--
05...	1350	70	--
05...	1735	52	15
08...	1230	54	30
08...	1255	56	--
08...	1320	58	30
08...	1325	55	--
08...	1745	58	30
09...	1730	70	30
10...	1300	67	30
10...	1330	66	--
10...	1355	68	30
10...	1745	54	30
11...	1750	73	30
12...	1130	82	30
12...	1220	70	30
12...	1715	--	40
13...	1330	104	35
15...	1200	70	--
15...	1215	61	--
16...	2130	80	25
19...	0045	84	25
20...	1330	90	25
22...	1745	127	30
23...	1745	130	30
25...	1745	107	25
26...	1745	111	25
28...	1915	120	30
29...	1745	98	25
30...	1730	135	30
MAY			
01...	0045	133	35
02...	1730	107	30
03...	0030	81	25
06...	1745	72	20
07...	0045	58	15
08...	1810	76	20
09...	1730	114	30
10...	1745	114	30
11...	2245	102	25
13...	1745	102	25
14...	0030	97	20
15...	1745	92	25
16...	1745	74	20
MAY			
17...	1730	90	20
20...	1730	63	20
21...	1740	72	20
22...	1730	55	15
23...	1730	50	15
28...	1730	57	20
29...	1745	54	20
30...	1745	68	20
31...	1730	64	15
JUNE			
02...	1715	60	20
03...	1745	52	15
04...	1730	58	15
05...	1745	54	15
06...	1810	50	15
08...	1345	52	15
09...	1850	53	15
10...	1745	54	15
11...	1730	47	25
12...	1745	50	15
13...	1745	50	15
17...	1730	48	15
18...	1745	45	15
19...	1730	50	20
20...	1730	54	20
21...	1740	51	20
24...	1730	46	15
25...	1740	40	20
26...	1745	45	20
JULY			
01...	1250	54	20
02...	1730	50	15
03...	1730	45	15
08...	1730	27	15
09...	1745	60	15
10...	1730	64	15
11...	1740	92	20
12...	1730	100	25
15...	1730	56	20
16...	1745	52	15
17...	1815	50	15
18...	1310	47	15
19...	0045	48	15
22...	1730	42	10
23...	1730	44	10
24...	0040	40	10
25...	0045	45	15
29...	1745	36	15
30...	1740	36	15
31...	0045	36	15
AUG.			
01...	0045	38	10
05...	1515	38	10
06...	1645	38	10
11...	2000	44	10
12...	2145	50	15
20...	1310	49	15
21...	1730	43	10
22...	1730	44	10
23...	0045	50	15
26...	1745	44	15
27...	1745	45	15
28...	1745	61	15
29...	0045	47	15
30...	0045	50	15
SEP.			
03...	1745	57	15
04...	0045	56	15
05...	0045	58	15
06...	1730	57	15
07...	0045	54	15
09...	1730	58	15
10...	1730	54	15
11...	1745	56	20
12...	0045	60	15
13...	1730	51	15
16...	1715	56	15
17...	1730	42	15
18...	1745	45	10
19...	1305	38	--
19...	1310	36	--
19...	1340	40	10
19...	1730	40	10
23...	1935	38	10
24...	0045	38	15
25...	0045	34	10
26...	1730	32	10
30...	0030	34	10

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.
(National stream-quality accounting network and radiochemical station)

LOCATION.--Lat 38°27'20", long 121°30'07", in SE¼SE¼ sec.14, T.7 N., R.4 E., Sacramento County, at drawbridge at Freeport, approximately 11 mi (18 km) south of Sacramento.

PERIOD OF RECORD.--Chemical analyses: Water year 1959 (partial-record station), June 1960 to June 1971, water year 1972 (partial-record station), February 1973 to current year.
Water temperatures: June 1960 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum recorded, 23.0°C July 23-26; minimum, 6.5°C on several days during January.
Period of record:
Water temperatures: Maximum, 24.0°C June 16, 17, 1961, July 14-16, 1972; minimum, 4.5°C Dec. 12-15, 1972.

REMARKS.--Temperature recorder located on right bank 1.9 mi (3.1 km) northwest of Freeport, and 7.5 mi (12.1 km) southwest of State Capitol building in Sacramento. Temperature data collected at this site are considered as being part of the International Hydrological Decade (IHD) Station, Sacramento River at Sacramento (sta 11447500). Clock stopped Aug. 6 to Sept. 17.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT.											
30...	1030	18	11	5.3	7.9	1.3	64	--	7.6	4.6	.1
NOV.											
28...	0930	17	8.7	4.5	5.7	1.3	54	0	5.2	3.0	.1
DEC.											
19...	1130	--	--	--	--	--	--	--	--	--	--
FEB.											
13...	1000	18	12	5.4	6.3	1.0	62	--	6.1	4.5	.1
MAR.											
13...	1045	--	--	--	--	--	--	--	--	--	--
APR.											
24...	0945	--	--	--	--	--	--	--	--	--	--
MAY											
23...	0845	--	--	--	--	--	--	--	--	--	--
JUNE											
18...	0915	--	--	--	--	--	--	--	--	--	--
JULY											
10...	0930	--	--	--	--	--	--	--	--	--	--
AUG.											
07...	0920	17	10	5.5	8.8	.9	66	--	6.4	4.3	.0
SEP.											
11...	1000	--	--	--	--	--	--	--	--	--	--

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	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)	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)
OCT.										
30...	--	--	.15	.28	.43	.13	86	87	.12	3740
NOV.										
28...	--	--	.23	.27	.50	.05	74	72	.10	12400
DEC.										
19...	.18	.00	.18	.34	.52	.10	--	--	--	--
FEB.										
13...	--	--	.23	.30	.53	.17	80	84	.11	9250
MAR.										
13...	.12	.01	.13	.41	.54	.05	--	--	--	--
APR.										
24...	--	--	.11	.39	.50	.15	--	--	--	--
MAY										
23...	--	--	--	--	--	--	--	--	--	--
JUNE										
18...	--	--	.04	.42	.46	.10	--	--	--	--
JULY										
10...	--	--	.19	.46	.65	.12	--	--	--	--
AUG.										
07...	--	--	.10	.49	.59	.14	94	86	.13	5610
SEP.										
11...	--	--	.08	.38	.46	.10	--	--	--	--

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 30...	49	0	133	7.5	13.5	9	400	84	140	--
NOV. 28...	40	0	94	7.4	10.5	30	1400	--	300	3.2
DEC. 19...	--	--	114	7.5	9.0	--	360	130	76	--
FEB. 13...	52	1	123	7.4	8.5	70	1000	100	120	3.4
MAR. 13...	--	--	108	7.5	9.5	--	280	144	120	--
APR. 24...	--	--	118	7.6	13.5	--	--	700	420	--
MAY 23...	--	--	130	7.8	16.0	--	--	47	80	1.7
JUNE 18...	--	--	101	7.8	18.5	--	--	96	26	--
JULY 10...	--	--	144	7.8	19.0	--	--	80	120	--
AUG. 07...	48	0	130	7.4	22.5	7	--	112	78	2.1
SEP. 11...	--	--	149	7.7	19.5	--	--	--	--	--

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
1973 OCT. 30...	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Lyngbya*		2,200	36
	....*Oscillatoria*		1,600	26
	TOTAL PHYTOPLANKTON		6,100	
NOV. 28...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	....*Scenedesmus*		320	27
	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Fragilaria*		560	47
	TOTAL PHYTOPLANKTON		1,200	
DEC. 19...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	....*Ankistrodesmus*		180	25
	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Melosira*		370	50
	TOTAL PHYTOPLANKTON		740	
1974 FEB. 13...	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Lyngbya*		410	37
	TOTAL PHYTOPLANKTON		1,100	

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PHYTOPLANKTON

DATE	PHYLUM .Class ..Order ...Family ....*Genus* .....*Species*	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
MAR. 13...	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Cyclotella*		156	19
	....*Navicula*		130	16
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Lyngbya*		130	16
	TOTAL PHYTOPLANKTON		820	
MAY 23...	CHLOROPHYTA	Green algae		
	.Chlorophyceae			
	....*Actimastrum*		610	21
	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Melosira*		640	22
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Lyngbya*		700	24
	TOTAL PHYTOPLANKTON		2,900	
JUNE 18...	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Cyclotella*		760	33
	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Lyngbya*		530	23
	TOTAL PHYTOPLANKTON		2,300	
JULY 10...	CHRYSOPHYTA			
	.Bacillariophyceae	Diatoms		
	....*Cyclotella*		1,400	44
	....*Navicula*		620	20
	TOTAL PHYTOPLANKTON		3,100	
AUG. 07...	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Lyngbya*		2,000	43
	TOTAL PHYTOPLANKTON		4,600	
SEP. 11...	CYANOPHYTA	Blue-green algae		
	.Myxophyceae			
	....*Agmenellum*		1,500	19
	....*Lyngbya*		3,400	42
	....*Oscillatoria*		1,900	23
	TOTAL PHYTOPLANKTON		8,100	

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED ALDRIN (UG/L)	SUS-PENDED ALDRIN (UG/L)	TOTAL ALDRIN (UG/L)	DIS-SOLVED CHLOR-DANE (UG/L)	SUS-PENDED CHLOR-DANE (UG/L)	TOTAL CHLOR-DANE (UG/L)	DIS-SOLVED DDD (UG/L)	SUS-PENDED DDD (UG/L)	TOTAL DDD (UG/L)	DIS-SOLVED DDE (UG/L)
OCT.											
30...	1030	.00	.00	.00	.0	.0	.0	.00	.00	.00	.00
FEB.											
13...	1000	.00	.00	.00	.0	.0	.0	.00	.00	.00	.00

DATE	SUS-PENDED DDE (UG/L)	TOTAL DDE (UG/L)	DIS-SOLVED DDT (UG/L)	SUS-PENDED DDT (UG/L)	TOTAL DDT (UG/L)	DIS-SOLVED DI-AZINON (UG/L)	SUS-PENDED DI-AZINON (UG/L)	TOTAL DI-AZINON (UG/L)	DIS-SOLVED DI-ELDRIN (UG/L)	SUS-PENDED DI-ELDRIN (UG/L)	TOTAL DI-ELDRIN (UG/L)
OCT.											
30...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
FEB.											
13...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	DIS-SOLVED ENDRIN (UG/L)	SUS-PENDED ENDRIN (UG/L)	TOTAL ENDRIN (UG/L)	DIS-SOLVED HEPTA-CHLOR (UG/L)	SUS-PENDED HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	DIS-SOLVED HEPTA-CHLOR EPOXIDE (UG/L)	SUS-PENDED HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	DIS-SOLVED LINDANE (UG/L)	SUS-PENDED LINDANE (UG/L)
OCT.											
30...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
FEB.											
13...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L)	DIS-SOLVED MALA-THION (UG/L)	SUS-PENDED MALA-THION (UG/L)	TOTAL MALA-THION (UG/L)	DIS-SOLVED METHYL PARA-THION (UG/L)	SUS-PENDED METHYL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	DIS-SOLVED PARA-THION (UG/L)	SUS-PENDED PARA-THION (UG/L)	TOTAL PARA-THION (UG/L)	DIS-SOLVED PCB (UG/L)
OCT.											
30...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0
FEB.											
13...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.0

DATE	SUS-PENDED PCB (UG/L)	TOTAL PCB (UG/L)	DIS-SOLVED 2,4-D (UG/L)	SUS-PENDED 2,4-D (UG/L)	DIS-SOLVED 2,4,5-T (UG/L)	SUS-PENDED 2,4,5-T (UG/L)	TOTAL 2,4,5-T (UG/L)	DIS-SOLVED SILVEX (UG/L)	SUS-PENDED SILVEX (UG/L)	TOTAL SILVEX (UG/L)
OCT.										
30...	.0	.0	.00	.00	.00	.00	.00	.01	.00	.01
FEB.										
13...	.0	.0	.02	.00	.00	.00	.00	.00	.00	.00

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	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)
NOV.											
28...	0930	2100	70	50	50	0	31	30	1	<10	10
FEB.											
13...	1000	6200	40	97	130	33	3	3	0	10	10
MAY											
23...	0845	2000	70	20	40	20	2	1	1	<10	<9
AUG.											
07...	0720	990	50	20	20	0	1	0	2	<10	<9

DATE	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)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
NOV.											
28...	0	0	0	0	<10	10	0	10	0	10	<100
FEB.											
13...	0	0	0	0	<50	<50	0	20	7	13	<100
MAY											
23...	1	0	0	0	<50	<49	1	20	5	15	<100
AUG.											
07...	<1	0	0	0	<50	<50	0	10	5	5	<100

DATE	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (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)
NOV.										
28...	97	3	.1	.1	.0	6	4	2	30	30
FEB.										
13...	<98	2	1.8	1.8	.0	3	0	4	40	20
MAY										
23...	<95	5	.1	.1	.0	1	1	0	80	80
AUG.										
07...	<90	10	.1	.0	.1	0	0	0	60	50

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
FEB.									
13...	1000	1.5	5.4	1.5	3.9	1.2	3.3	.02	.08

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER • WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.5	15.5	14.5	19.0	19.0	21.5	20.5	22.5	22.0	---	---
2	10.0	9.5	15.0	14.5	19.0	18.0	22.0	21.0	22.5	21.5	---	---
3	10.0	10.0	15.5	15.0	19.0	18.5	22.0	21.0	22.5	22.0	---	---
4	10.5	10.0	16.0	15.0	19.0	18.5	22.0	21.5	22.5	22.0	---	---
5	10.5	10.5	16.0	15.5	19.5	19.0	22.0	21.0	22.5	22.0	---	---
6	11.0	10.5	16.5	16.0	19.5	19.0	22.0	21.0	---	---	---	---
7	11.5	11.0	17.0	16.0	19.5	18.5	21.5	20.5	---	---	---	---
8	12.0	11.5	18.0	16.5	18.5	18.0	20.5	20.0	---	---	---	---
9	12.0	11.5	18.5	17.5	18.5	18.0	20.0	19.5	---	---	---	---
10	11.5	11.5	18.0	17.0	19.0	18.5	19.5	19.0	---	---	---	---
11	12.0	11.5	17.5	17.0	19.0	18.5	19.5	19.0	---	---	---	---
12	12.5	12.0	17.0	16.5	19.0	18.5	20.0	19.0	---	---	---	---
13	12.5	12.5	17.0	16.0	19.5	18.5	20.5	19.5	---	---	---	---
14	13.0	12.5	16.5	16.0	19.5	19.0	21.0	20.0	---	---	---	---
15	13.5	13.0	16.5	16.0	19.5	18.5	21.5	20.5	---	---	---	---
16	13.5	13.5	16.0	15.5	19.0	18.5	21.5	20.5	---	---	---	---
17	14.0	13.5	16.0	15.0	19.0	18.0	21.0	20.5	---	---	---	---
18	14.0	13.0	15.5	14.5	19.0	18.5	21.5	20.5	---	---	19.0	18.0
19	13.0	13.0	15.0	15.0	18.5	18.0	21.5	20.5	---	---	18.5	18.0
20	13.0	12.5	15.0	14.5	19.0	18.0	22.0	21.0	---	---	19.0	18.0
21	13.0	13.0	15.0	15.0	19.0	18.5	22.5	21.5	---	---	19.0	18.0
22	13.5	13.0	16.0	15.0	19.5	19.0	22.5	21.0	---	---	19.0	18.0
23	14.0	13.0	16.5	15.5	20.0	19.0	23.0	21.5	---	---	19.0	18.5
24	13.5	12.5	18.0	16.5	20.5	19.5	23.0	22.5	---	---	19.0	18.5
25	13.0	12.5	19.0	18.0	20.5	19.5	23.0	22.5	---	---	19.0	19.0
26	13.0	12.5	19.0	18.5	20.5	19.5	23.0	22.5	---	---	19.0	18.0
27	13.0	12.5	19.5	19.0	20.5	19.5	22.5	22.0	---	---	18.5	18.0
28	13.5	13.0	19.5	19.0	21.0	20.0	22.5	22.0	---	---	18.5	18.0
29	14.5	13.0	18.5	18.5	21.5	20.5	22.5	22.0	---	---	18.0	17.5
30	15.0	14.0	19.0	18.5	21.5	20.0	22.5	22.0	---	---	18.0	17.5
31	---	---	19.0	19.0	---	---	22.5	22.0	---	---	---	---
MONTH	15.0	9.5	19.5	14.5	21.5	18.0	23.0	19.0	---	---	---	---

11447810 SACRAMENTO RIVER AT GREEN'S LANDING, NEAR COURTLAND, CALIF.

LOCATION.--Lat 38°20'45", long 121°32'42", in SW¼NE¼ sec.28, T.6 N., R.4 E., Sacramento County, on left bank 2.2 mi (3.5 km) upstream from Sutter Slough, and 1.6 mi (2.6 km) northeast of Courtland.

PERIOD OF RECORD.--Chemical analyses: October 1952 to September 1958, June 1971 to current year. Published as "at Snodgrass Slough, near Courtland" in 1953-58.
Specific conductance: November 1973 to September 1974.

EXTREMES.--Current year:
Specific conductance: Maximum daily, 175 micromhos July 11; minimum daily, 71 micromhos Apr. 2, 3.

REMARKS.--Chemical-quality samples collected and selected analyses furnished by California Department of Water Resources. Chemical-quality data are considered as being part of the International Hydrological Decade Station, Sacramento River at Sacramento (sta 11447500). Specific conductance data for this station is furnished by Bureau of Reclamation and are considered as being part of the National stream-quality accounting network station, Sacramento River at Freeport (sta 11447650).

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.									
17...	1230	18	20	11	5.3	8.0	1.2	65	0
NOV.									
14...	1330	16	--	7.8	3.4	4.7	1.2	41	0
DEC.									
19...	1215	18	20	10	4.8	6.9	.9	60	0
JAN.									
16...	0940	16	60	9.6	4.4	5.9	1.0	51	0
16...	1040	--	110	--	--	--	--	--	--
FEB.									
20...	0900	--	90	--	--	--	--	--	--
20...	1000	17	60	10	5.2	6.7	.9	59	0
MAR.									
20...	1130	--	20	--	--	--	--	--	--
20...	1230	16	70	12	5.3	6.3	1.1	52	0
APR.									
17...	1220	17	110	10	4.7	5.0	.9	49	0
MAY									
15...	1130	15	80	10	4.3	5.5	.8	53	0
JUNE									
19...	1300	16	40	13	4.0	5.3	.8	53	0
JULY									
17...	1140	17	30	12	6.0	8.5	.9	67	0
AUG.									
21...	1030	17	90	11	5.9	9.8	1.3	69	0
SEP.									
18...	1315	17	70	10	5.7	9.4	1.0	72	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 NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)
OCT.									
17...	53	7.0	4.9	.1	.15	.16	88	.12	49
NOV.									
14...	34	5.2	3.7	.1	.33	.24	64	.09	34
DEC.									
19...	49	5.2	3.1	.1	.26	.05	80	.11	45
JAN.									
16...	42	4.5	4.1	.0	.14	.09	71	.10	42
16...	--	--	--	--	--	--	--	--	--
FEB.									
20...	--	--	--	--	--	--	--	--	--
20...	48	6.3	4.2	.0	.33	.12	81	.11	46
MAR.									
20...	--	--	--	--	--	--	--	--	--
20...	43	6.7	4.1	.1	.20	.08	78	.11	52
APR.									
17...	40	6.0	2.7	.0	.13	.09	71	.10	44
MAY									
15...	43	6.6	3.8	.0	.05	.01	72	.10	43
JUNE									
19...	43	5.8	5.0	.0	.11	.08	77	.10	49
JULY									
17...	55	9.8	5.7	.0	.16	.10	94	.13	55
AUG.									
21...	57	6.4	5.7	.1	.11	.09	92	.13	52
SEP.									
18...	59	6.3	5.7	.0	.11	.07	91	.12	49

11447810 SACRAMENTO RIVER AT GREEN'S LANDING, NEAR COURTLAND, CALIF.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)
OCT.									
17...	0	118	7.4	16.5	6	9.7	50	0	100
NOV.									
14...	0	--	7.2	13.5	90	9.0	--	0	70
DEC.									
19...	0	122	7.2	9.0	20	10.8	30	0	90
JAN.									
16...	0	105	7.2	9.0	30	11.3	30	0	50
16...	--	105	7.2	9.0	--	11.3	--	--	--
FEB.									
20...	--	119	7.3	9.0	--	11.4	--	--	--
20...	0	119	7.3	9.0	50	11.4	30	0	80
MAR.									
20...	--	103	7.3	12.0	--	11.5	--	--	--
20...	9	103	7.3	12.0	30	11.5	30	0	80
APR.									
17...	4	106	7.3	14.0	30	11.5	30	20	70
MAY									
15...	0	106	7.2	16.0	1	9.2	30	0	60
JUNE									
19...	6	103	7.3	19.5	7	8.7	30	0	60
JULY									
17...	0	133	7.3	21.5	20	8.2	40	0	70
AUG.									
21...	0	130	7.3	20.0	10	8.5	50	0	70
SEP.									
18...	0	146	7.2	20.0	10	8.5	40	0	90

DATE	TIME	DISSOLVED MANGANESE (MN) (UG/L)	PHENOLS (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.									
17...	1230	0	0	0	0	0	0	0	0
NOV.									
14...	1330	10	2	0	0	10	10	0	10
DEC.									
19...	[illegible]	0	1	--	0	0	0	0	40
JAN.									
16...	10[illegible]	0	1	0	0	0	0	10	0
FEB.									
20...	0900	0	1	0	0	0	0	0	0
MAR.									
20...	1130	0	--	0	--	0	0	0	20
APR.									
17...	1220	0	--	10	--	10	0	0	0
MAY									
15...	1130	0	--	0	--	0	0	0	0
JUNE									
19...	1300		--	0	--	0	0	0	0
JULY									
17...	1140	0	--	0	--	0	0	10	0
AUG.									
21...	1030	10	--	20	--	10	0	10	20
SEP.									
18...	1315	10	0	0	0	0	0	0	0

11447810 SACRAMENTO RIVER AT GREEN'S LANDING, NEAR COURTLAND, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), NOVEMBER 1973 TO SEPTEMBER 1974
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		132	108	109	108	---	83	115	130	135	140	---
2		132	103	102	108	---	71	111	125	145	145	---
3		136	103	99	107	---	71	117	120	145	140	---
4		137	110	107	108	---	---	122	115	130	140	---
5		127	102	118	108	---	---	119	120	135	135	---
6		130	105	120	107	110	---	114	120	130	135	---
7		133	109	126	115	111	---	---	130	135	135	---
8		140	120	119	114	113	---	120	135	140	135	---
9		142	115	117	119	115	---	126	130	140	130	---
10		141	112	120	120	111	93	114	120	160	130	---
11		138	112	122	121	109	86	110	110	175	135	157
12		142	112	123	120	107	101	111	100	160	135	159
13		100	114	124	127	108	---	109	100	160	140	159
14		88	113	124	135	109	---	111	105	165	140	159
15		102	120	123	136	110	111	108	105	155	135	161
16		101	119	109	118	114	108	120	95	155	140	159
17		98	120	108	118	115	109	129	95	155	145	156
18		98	120	100	118	115	108	131	100	140	145	147
19		95	122	86	121	110	108	124	105	145	145	---
20		95	121	84	117	110	108	128	105	140	150	149
21		93	117	77	113	109	108	126	105	140	140	147
22		95	115	75	115	107	113	126	120	130	140	145
23		96	118	79	120	108	108	132	125	130	140	143
24		102	120	84	119	102	119	140	125	140	140	143
25		---	120	87	115	105	122	154	130	145	150	140
26		---	120	95	115	108	127	148	125	145	150	137
27		---	120	95	118	112	127	145	125	145	---	133
28		106	124	96	118	120	119	147	125	145	---	129
29		109	117	99	---	115	126	146	135	145	---	---
30		108	113	107	---	103	119	144	140	150	---	128
31		---	109	107	---	84	---	---	---	145	---	---
MONTH		115	115	105	117	109	---	126	117	145	140	---

11449010 HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.

LOCATION.--Lat 38°56'54", long 122°54'03", in NE¼ sec.30, T.13 N., R.9 W., Lake County, at outlet of Highland Creek Dam, 500 ft (152 m) upstream from gaging station, and 4.0 mi (6.4 km) southwest of Kelseyville.

DRAINAGE AREA.--14.2 mi^2 (36.8 km^2).

PERIOD OF RECORD.--Chemical analyses: Water years 1968 to current year (partial-record station). Published as sta 11448900 "above Highland Creek Dam" in 1968.
Water temperatures: November 1966 to current year.
Sediment records: December 1965 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 140 mg/l Dec. 1, Jan. 17; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 229 tons (208 tonnes) Jan. 17; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 300 mg/l Jan. 18, 1973; minimum daily, no flow for many days in 1966-74.
Sediment discharge: Maximum daily, 390 tons (354 tonnes) Jan. 18, 1973; minimum daily, 0 tons (0 tonnes) on many days in 1966-74.

REMARKS.--No flow Oct. 10 to Nov. 4, May 29 to June 9, July 24 to Aug. 1, Aug. 13 to Sept. 30. Bed at sampling point is concrete outlet from dam with no material over concrete.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
DEC.										
04...	1215	51	8.7	5.1	2.3	.9	56	0	46	3.3
JAN.										
15...	1240	411	12	6.4	3.9	.9	66	0	54	3.6
31...	1330	17	18	10	5.3	.9	104	0	85	3.8

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)
DEC.									
04...	1.5	43	0	10	.2	89	7.3	9.0	4.5
JAN.									
15...	2.3	56	2	13	.2	116	7.6	9.0	2.7
31...	2.5	86	1	12	.2	175	7.7	8.0	3.3

11449010 HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	---	---	---	---	---					
2		---	---	7.0	---	---	---					
3		---	---	---	---	9.0	---					
4		---	10.0	---	---	---	---					
5		12.0	---	---	---	8.5	---					
6		---	11.0	---	---	---	---					
7		---	---	---	7.0	---	---					
8		---	---	---	---	---	---					
9		---	---	---	---	---	---					
10		14.0	---	---	---	---	10.0					
11		---	---	---	---	9.0	---					
12		---	---	---	7.0	---	---					
13		---	9.0	---	---	---	---					
14		12.0	---	---	---	---	---					
15		12.0	---	9.0	---	---	---					
16		---	---	---	---	---	---					
17		---	---	---	---	---	13.0					
18		---	---	11.0	---	---	---					
19		---	---	---	---	---	---					
20		---	---	---	---	---	---					
21		---	---	---	8.0	---	---					
22		---	---	---	---	---	---					
23		---	---	9.0	---	---	---					
24		---	---	---	---	---	---					
25		---	---	---	---	---	---					
26		9.5	8.5	---	---	14.0	---					
27		---	---	---	---	---	---					
28		---	---	---	9.0	---	---					
29		---	---	---	---	---	---					
30		---	---	---	---	---	---					
31		---	---	8.0	---	---	---					
MONTH		---	---	---	---	---	---					

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.10	10	0	0	0	0	563	140	213
2	.10	10	0	0	0	0	518	78	109
3	.07	10	0	0	0	0	160	54	23
4	.07	10	0	0	0	0	51	48	6.6
5	.07	10	0	1.8	8	.06	39	48	5.1
6	.07	10	0	9.0	14	.34	30	52	4.2
7	.05	9	0	12	11	.36	24	49	3.2
8	.03	8	0	11	13	.39	22	42	2.5
9	.01	7	0	51	13	1.8	18	36	1.8
10	0	0	0	227	16	8.6	15	30	1.2
11	0	0	0	450	41	51	29	23	1.8
12	0	0	0	373	33	36	25	27	1.8
13	0	0	0	144	14	5.4	90	29	6.8
14	0	0	0	116	18	5.3	50	27	3.6
15	0	0	0	79	13	2.8	38	22	2.3
16	0	0	0	397	30	28	31	20	1.7
17	0	0	0	252	42	26	36	21	2.0
18	0	0	0	221	39	23	31	25	2.1
19	0	0	0	80	23	5.0	26	19	1.3
20	0	0	0	49	19	2.5	24	17	1.1
21	0	0	0	34	18	1.7	146	19	7.6
22	0	0	0	29	17	1.3	105	27	7.7
23	0	0	0	26	17	1.2	67	18	3.3
24	0	0	0	22	15	.89	51	16	2.2
25	0	0	0	17	13	.60	41	16	1.8
26	0	0	0	16	11	.48	46	18	2.2
27	0	0	0	13	9	.32	92	27	6.7
28	0	0	0	12	8	.26	90	21	5.1
29	0	0	0	14	7	.26	70	17	3.2
30	0	0	0	347	32	44	55	16	2.4
31	0	0	0	---	---	---	45	15	1.8
MONTH	.57	---	0	3002.80	---	247.56	2628	---	438.1

11449010 HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	39	14	1.5	20	35	1.9	549	100	148
2	32	13	1.1	16	34	1.5	531	91	130
3	34	12	1.1	14	32	1.2	400	80	88
4	33	14	1.2	13	28	.98	54	66	9.6
5	30	12	.97	12	23	.75	61	56	9.2
6	30	12	.97	12	19	.62	50	45	6.1
7	32	10	.86	11	18	.53	58	39	6.1
8	37	13	1.3	11	16	.48	53	37	5.3
9	38	13	1.3	9.8	16	.42	42	32	3.6
10	34	12	1.1	9.0	15	.36	39	29	3.1
11	41	10	1.1	9.0	14	.34	178	29	14
12	179	11	5.3	11	14	.42	165	28	12
13	221	22	13	12	13	.42	88	18	4.3
14	231	15	9.4	9.8	13	.34	68	15	2.8
15	450	43	47	9.0	13	.32	57	14	2.2
16	591	125	204	12	12	.39	47	14	1.8
17	606	140	229	12	11	.36	40	14	1.5
18	563	120	182	12	11	.36	34	13	1.2
19	500	100	135	82	17	3.3	31	13	1.1
20	142	93	36	42	24	2.7	27	13	.95
21	75	86	17	37	18	1.8	24	12	.78
22	58	79	12	36	18	1.8	23	12	.75
23	47	72	9.1	27	19	1.4	22	11	.65
24	41	68	7.5	24	18	1.2	20	10	.54
25	38	64	6.6	22	17	1.0	24	9	.58
26	32	60	5.2	20	16	.86	35	8	.76
27	29	55	4.3	20	15	.81	171	14	7.3
28	22	51	3.0	343	59	77	220	45	28
29	19	46	2.4	---	---	---	384	28	29
30	17	42	1.9	---	---	---	563	120	182
31	16	36	1.6	---	---	---	527	86	122
MONTH	4257	---	943.80	867.6	---	103.56	4585	---	823.21

	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	471	51	66	9.0	6	.15	0	0	0
2	173	30	15	9.0	6	.15	0	0	0
3	70	30	5.7	9.0	6	.15	0	0	0
4	65	32	5.6	8.3	6	.13	0	0	0
5	58	29	4.5	8.3	7	.16	0	0	0
6	47	26	3.3	7.0	7	.13	0	0	0
7	40	23	2.5	1.3	6	.02	0	0	0
8	37	20	2.0	.26	5	0	0	0	0
9	42	19	2.2	.19	5	0	0	0	0
10	34	19	1.7	.16	5	0	1.5	7	.03
11	29	18	1.4	.16	5	0	3.9	7	.07
12	24	16	1.0	.19	5	0	3.9	7	.07
13	22	15	.89	.19	5	0	3.9	7	.07
14	20	14	.76	.16	6	0	2.7	7	.05
15	17	13	.60	.22	7	0	2.0	7	.04
16	15	11	.45	.16	6	0	2.0	7	.04
17	14	9	.34	.16	6	0	1.2	6	.02
18	13	9	.32	.22	6	0	.63	6	.01
19	12	9	.29	.22	7	0	.63	6	.01
20	12	10	.32	.26	7	.01	.63	6	.01
21	11	8	.24	.26	7	.01	.55	7	.01
22	11	5	.15	.31	8	.01	.42	7	.01
23	11	6	.18	.36	8	.01	.42	8	.01
24	11	5	.15	.48	7	.01	.42	9	.01
25	12	6	.19	.48	6	.01	.42	10	.01
26	12	6	.19	.48	5	.01	.36	11	.01
27	12	7	.23	.22	3	0	.36	10	.01
28	11	7	.21	.03	2	0	.36	9	.01
29	9.8	6	.16	0	0	0	.31	8	.01
30	9.0	6	.15	0	0	0	.31	7	.01
31	---	---	---	0	0	0	---	---	---
MONTH	1324.8	---	116.72	57.07	---	.96	26.92	---	.52

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.31	7	.01	0	0	0			
2	.31	7	.01	.18	5	0			
3	.22	7	0	.82	5	.01			
4	.22	7	0	.82	7	.02			
5	.22	8	0	.92	7	.02			
6	.19	9	0	1.0	7	.02			
7	.19	10	.01	1.2	8	.03			
8	.22	10	.01	1.2	8	.03			
9	.19	11	.01	1.2	8	.03			
10	.19	12	.01	1.2	9	.03			
11	.19	11	.01	1.2	10	.03			
12	.19	11	.01	.73	7	.01			
13	.19	10	.01	0	0	0			
14	.19	10	.01	0	0	0			
15	.22	10	.01	0	0	0			
16	.22	10	.01	0	0	0			
17	.22	10	.01	0	0	0			
18	.22	9	.01	0	0	0			
19	.26	9	.01	0	0	0			
20	.26	9	.01	0	0	0			
21	.26	8	.01	0	0	0			
22	.26	8	.01	0	0	0			
23	.22	7	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			
MONTH	5.16	---	.18	10.47	---	.23	0	---	0
YEAR	16765.39		2674.84						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
DEC.							
04...	1100	10.0	51	48	6.6	--	--
13...	0930	9.0	103	24	6.7	--	--
JAN.							
15...	1240	9.0	419	50	57	--	--
18...	1200	11.0	554	115	172	--	--
FEB.							
07...	1030	7.0	11	18	.53	--	--
21...	1230	8.0	36	18	1.7	--	--
28...	1245	9.0	513	49	68	--	--
MAR.							
05...	1130	8.5	62	56	9.4	82	96
11...	0930	9.0	192	27	14	--	--
APR.							
17...	1020	13.0	14	9	.34	--	--

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
DEC.							
04...	--	--	--	99	99	100	--
13...	--	--	--	98	100	--	--
JAN.							
15...	--	--	--	98	100	--	--
18...	--	--	--	98	99	100	--
FEB.							
07...	--	--	--	100	--	--	--
21...	--	--	--	96	97	100	--
28...	--	--	--	100	--	--	--
MAR.							
05...	97	98	98	99	99	99	100
11...	--	--	--	100	--	--	--
APR.							
17...	--	--	--	96	96	96	100

11452000 CACHE CREEK NEAR CAPAY, CALIF.

LOCATION.--Lat 38°43'44", long 122°06'15", in Canada de Capay Grant, Yolo County, at gaging station 1.8 mi (2.9 km) upstream from Clear Lake Water Company's diversion dam, 3.2 mi (5.1 km) northwest of Capay, and 5.4 mi (8.7 km) northwest of Esparto.

DRAINAGE AREA.--1,044 mi^2 (2,704 km^2).

PERIOD OF RECORD.--Chemical analyses: Water year 1952 (partial-record station), October 1952 to September 1968, water year 1969 (partial-record station), October 1969 to current year.
Sediment records: Water years 1959-62 (partial-record station).

REMARKS.--Records furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV., 1973								
12...	1520	3790	17	--	16	--	121	0
DEC.								
12...	0930	1050	24	--	23	--	204	0
JAN., 1974								
22...	1415	5120	22	19	14	1.6	164	0
FEB.								
19...	1530	1400	32	--	37	--	284	0
APR.								
02...	0830	7630	19	--	11	--	127	0
JULY								
11...	0930	430	24	--	20	--	176	0
SEP.								
04...	0845	289	24	18	17	--	170	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV., 1973									
12...	99	--	16	--	159	.22	1630	110	11
DEC.									
12...	167	--	25	--	226	.31	641	178	11
JAN., 1974									
22...	135	15	8.6	.34	164	.22	2270	133	0
FEB.									
19...	233	--	40	--	330	.45	1250	249	16
APR.									
02...	104	--	6.9	--	118	.16	2430	108	4
JULY									
11...	144	--	19	--	199	.27	231	145	1
SEP.									
04...	139	--	14	--	214	.29	167	132	0

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
NOV., 1973								
12...	--	--	245	8.0	14.0	250	10.3	600
DEC.								
12...	--	--	425	8.1	9.5	120	11.0	800
JAN., 1974								
22...	18	.5	300	8.0	8.5	150	11.9	800
FEB.								
19...	--	--	560	8.2	9.0	90	11.1	1500
APR.								
02...	--	--	241	8.0	11.0	360	10.7	400
JULY								
11...	--	--	350	8.1	21.0	3	8.2	1000
SEP.								
04...	--	.6	308	8.0	22.0	3	8.3	--

11453550 HUNTING CREEK NEAR KNOXVILLE, CALIF.

LOCATION.--Lat 38°46'18", long 122°24'26", in NE¼SE¼ sec.28, T.11 N., R.5 W., Lake County, at gaging station 2,400 ft (732 m) upstream from mouth, 5.3 mi (8.5 km) southwest of Knoxville, and 11.2 mi (18.0 km) east of Middletown.

DRAINAGE AREA.--37.8 mi^2 (97.9 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.
Water temperatures: November 1972 to current year.
Sediment records: October 1970 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 626 mg/l Mar. 29; minimum daily, 1 mg/l Jan. 31.
Sediment discharge: Maximum daily, 1,530 tons (1,390 tonnes) Feb. 28; minimum daily, 0.01 tons (0.01 tonnes) on several days.
Period of record:
Sediment concentrations: Maximum daily, 680 mg/l Jan. 16, 1973; minimum daily, no flow for many days in 1972.
Sediment discharge: Maximum daily, 3,050 tons (2,770 tonnes) Jan. 16, 1973; minimum daily, 0 tons (0 tonnes) on many days in 1972 and 1973.

COOPERATION.--Records furnished by Bureau of Reclamation and reviewed by Geological Survey.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	17.0	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	13.5	---	9.0	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	15.0	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	4.0	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	21.0
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11453550 HUNTING CREEK NEAR KNOXVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.80	5	.01	2.9	16	.13	208	366	266
2	.80	5	.01	3.2	9	.08	56	86	14
3	.80	7	.02	3.4	5	.05	37	3	.30
4	.80	23	.05	3.6	3	.03	30	3	.24
5	.70	28	.05	13	25	.88	25	3	.20
6	.70	31	.06	5.0	10	.14	22	3	.18
7	1.1	23	.07	11	15	.45	19	3	.15
8	1.2	14	.05	4.6	6	.07	17	3	.14
9	1.8	9	.04	14	28	5.9	16	4	.17
10	1.2	12	.04	109	125	40	15	5	.20
11	1.2	7	.02	324	256	320	19	3	.15
12	1.5	9	.04	306	233	366	17	5	.23
13	1.4	3	.01	224	208	235	54	85	12
14	.70	9	.02	94	83	21	26	21	1.5
15	.70	15	.03	38	21	2.2	19	3	.15
16	.70	14	.03	358	400	602	17	3	.14
17	.70	8	.02	302	182	253	23	4	.25
18	.70	12	.02	116	30	9.4	19	2	.10
19	.70	10	.02	47	32	4.1	15	5	.20
20	.70	8	.02	33	23	2.0	15	10	.41
21	.70	8	.02	26	20	1.4	191	134	147
22	3.6	5	.05	21	15	.85	120	62	20
23	8.8	7	.17	18	10	.49	50	7	.95
24	6.9	17	.32	15	10	.41	38	4	.41
25	5.2	20	.28	13	8	.28	32	4	.35
26	4.6	13	.16	12	6	.19	50	11	3.2
27	3.8	13	.13	11	8	.24	132	50	25
28	3.4	8	.07	10	10	.27	82	12	2.7
29	3.2	7	.06	9.7	10	.26	52	4	.56
30	2.7	14	.10	250	297	465	42	4	.45
31	2.5	15	.10	--	--	--	37	3	.30
TOTAL	64.30	--	2.09	2397.4	--	2331.82	1495	--	497.63

	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	34	3	.28	49	2	.26	528	248	407
2	28	3	.23	43	4	.46	326	108	95
3	36	2	.19	41	4	.44	131	16	5.7
4	48	4	.52	39	2	.21	89	8	1.9
5	41	3	.33	34	3	.28	75	7	1.4
6	45	4	.49	32	3	.26	68	6	1.1
7	51	4	.55	31	3	.25	155	40	24
8	57	5	.77	30	3	.24	102	25	6.9
9	52	4	.56	29	6	.47	71	6	1.2
10	48	4	.52	28	5	.38	65	5	.88
11	54	7	1.0	27	5	.36	86	8	1.9
12	186	30	17	30	4	.32	134	18	6.5
13	188	54	29	29	6	.47	90	10	2.4
14	359	204	408	26	3	.21	73	6	1.2
15	360	152	228	24	4	.26	59	9	1.4
16	760	352	1090	30	7	.57	53	9	1.3
17	254	98	67	26	7	.49	47	10	1.3
18	283	109	130	25	8	.54	44	16	1.9
19	168	17	7.7	82	37	9.3	42	26	2.9
20	122	11	3.6	36	10	.97	38	16	1.6
21	98	7	1.9	30	3	.24	36	50	4.9
22	83	5	1.1	29	3	.23	34	8	.73
23	75	4	.81	26	3	.21	31	8	.67
24	69	5	.93	24	5	.32	30	4	.32
25	65	4	.70	23	3	.19	31	5	.42
26	60	3	.49	23	3	.19	31	5	.42
27	56	3	.45	22	2	.12	70	110	21
28	53	3	.43	717	421	1530	179	348	181
29	50	2	.27	--	--	--	606	626	1080
30	48	3	.39	--	--	--	775	438	1130
31	47	1	.13	--	--	--	497	65	87
TOTAL	3878	--	1993.34	1585	--	1548.24	4596	--	3073.94

11453550 HUNTING CREEK NEAR KNOXVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	574	22	34	29	3	.23	11	8	.24
2	423	20	23	29	5	.39	11	7	.21
3	318	22	19	29	5	.39	11	9	.27
4	256	27	19	29	6	.47	9.9	10	.27
5	200	20	11	28	6	.45	9.5	10	.26
6	172	6	2.8	29	7	.55	9.2	15	.37
7	155	5	2.1	29	7	.55	8.6	15	.35
8	135	12	4.4	29	8	.63	8.0	20	.43
9	123	12	4.0	27	9	.66	8.0	20	.43
10	106	5	1.4	26	10	.70	7.5	22	.45
11	89	4	.96	27	10	.73	7.4	24	.48
12	73	4	.79	26	11	.77	6.9	23	.43
13	65	7	1.2	25	11	.74	6.9	25	.47
14	59	7	1.1	25	12	.81	6.9	30	.56
15	57	6	.92	24	13	.84	6.8	29	.53
16	55	6	.89	24	14	.91	6.7	21	.38
17	52	3	.42	25	13	.88	6.9	20	.37
18	50	2	.27	26	14	.98	7.3	20	.39
19	47	2	.25	26	18	1.3	7.4	18	.36
20	44	2	.24	23	9	.56	7.4	18	.36
21	43	8	.93	22	6	.36	6.8	18	.33
22	41	8	.89	22	8	.48	6.2	19	.32
23	39	12	1.3	20	10	.54	5.7	19	.29
24	43	29	3.4	19	14	.72	5.5	15	.22
25	39	35	3.7	17	9	.41	5.2	11	.15
26	37	35	3.5	16	6	.26	5.2	11	.15
27	38	26	2.7	15	7	.28	5.2	15	.21
28	34	15	1.4	13	3	.11	5.0	20	.27
29	31	10	.84	13	5	.18	4.6	13	.16
30	29	6	.47	13	5	.18	4.2	12	.14
31	--	--	--	12	8	.26	--	--	--
TOTAL	3427	--	146.87	717	--	17.32	217.9	--	9.85

	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	4.2	14	.16	2.0	22	.12	1.4	9	.03
2	4.2	12	.14	1.9	29	.15	1.4	6	.02
3	4.2	21	.24	1.8	33	.16	1.3	4	.01
4	4.0	16	.17	1.7	26	.12	1.3	5	.02
5	4.0	5	.05	1.7	17	.08	1.3	10	.04
6	3.9	5	.05	1.9	10	.05	1.3	14	.05
7	4.0	8	.09	1.9	11	.06	1.2	18	.06
8	7.5	11	.22	1.8	13	.06	1.2	20	.06
9	7.5	9	.18	1.8	14	.07	1.1	15	.04
10	5.9	10	.16	1.6	15	.06	1.0	8	.02
11	5.2	9	.13	1.5	25	.10	1.1	4	.01
12	4.8	7	.09	1.5	21	.09	1.2	5	.02
13	4.2	11	.12	1.6	10	.04	1.2	6	.02
14	4.2	5	.06	1.7	17	.08	1.2	8	.03
15	4.0	7	.08	1.8	24	.12	1.2	9	.03
16	4.0	8	.09	1.7	25	.11	1.2	10	.03
17	4.0	3	.03	1.8	29	.14	1.2	11	.04
18	3.7	6	.06	1.7	25	.11	1.2	10	.03
19	3.6	9	.09	1.6	10	.04	1.2	7	.02
20	3.3	11	.10	1.5	12	.05	1.2	5	.02
21	3.0	5	.04	1.5	11	.04	1.1	8	.02
22	3.1	3	.03	1.4	16	.06	.90	10	.02
23	2.7	3	.02	1.4	8	.03	.90	15	.04
24	2.7	2	.01	1.4	6	.02	.90	14	.03
25	2.5	5	.03	1.4	8	.03	.90	13	.03
26	2.5	17	.11	1.4	12	.05	.90	12	.03
27	2.5	27	.18	1.4	8	.03	.90	12	.03
28	2.4	28	.18	1.4	13	.05	.90	12	.03
29	2.3	20	.12	1.4	5	.02	.90	12	.03
30	2.1	13	.07	1.4	5	.02	.90	13	.03
31	2.1	15	.09	1.4	7	.03	--	--	--
TOTAL	118.3	--	3.19	50.0	--	2.19	33.60	--	.89

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 18579.50
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 9627.37

11453570 ADAMS CREEK NEAR KNOXVILLE, CALIF.

LOCATION.--Lat 38°42'17", long 122°17'44", in NE¼NE¼ sec.21, T.10 N., R.4 W., Napa County, at gaging station 20 ft (6.1 m) downstream from road ford, 0.2 mi (0.3 km) upstream from mouth, 8.8 mi (14.2 km) southeast of Knoxville, and 18 mi (29 km) southeast of Middletown.

DRAINAGE AREA.--7.42 mi^2 (19.22 km^2).

PERIOD OF RECORD.--Chemical analyses: Water year 1970 (partial-record station), October 1970 to September 1973. Sediment records: Water years 1971 to current year (partial-record station).

COOPERATION.--Records furnished by Bureau of Reclamation and reviewed by Geological Survey.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
DEC.					
05...	1100	10.0	2.0	1	.01
JAN.					
11...	1545	--	4.0	16	.17
16...	1600	12.0	60	314	51
FEB.					
06...	1130	--	5.3	2	.03
MAR.					
11...	1350	12.0	9.6	26	.67
APR.					
24...	1245	--	9.8	5	.13
MAY					
01...	1335	22.5	6.0	2	.03
JUNE					
05...	1045	--	2.6	39	.27
JULY					
24...	1000	--	.41	9	.01
SEP.					
12...	1030	--	.05	24	.00

11453580 NEVADA CREEK NEAR KNOXVILLE, CALIF.

LOCATION.--Lat 38°42'42", long 122°17'31", in NW¼SW¼ sec.15, T.10 N., R.4 W., Napa County, at gaging station 150 ft (46 m) downstream from road ford, 0.6 mi (1.0 km) upstream from Adams Creek, 8.4 mi (13.5 km) southeast of Knoxville, and 18 mi (29 km) southeast of Middletown.

DRAINAGE AREA.--7.06 mi^2 (18.29 km^2).

PERIOD OF RECORD.--Chemical analyses: Water year 1970 (partial-record station), October 1970 to September 1973. Sediment records: Water years 1971 to current year (partial-record station).

COOPERATION.--Records furnished by Bureau of Relcamation and reviewed by Geological Survey.

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
DEC.					
05...	1240	10.0	1.7	8	.04
JAN.					
11...	1610	7.0	3.6	4	.04
16...	2100	11.0	48	502	65
FEB.					
06...	1345	--	2.8	1	.01
MAR.					
11...	1535	12.0	9.3	20	.50
APR.					
24...	1415	--	6.0	9	.15
MAY					
01...	1210	19.0	3.4	4	.04
JUNE					
05...	1240	--	.45	22	.03
JULY					
24...	1100	--	.08	8	.00
SEP.					
12...	1135	--	.03	9	.00

11454000 PUTAH CREEK NEAR WINTERS, CALIF.

LOCATION.--Lat 38°30'55", long 122°04'51", in NE¼NE¼ sec.28, T.8 N., R.2 W., Yolo County, at gaging station on left bank, 1 mi (2 km) downstream from Cold Canyon, 1.3 mi (2.1 km) downstream from Monticello Dam, and 6 mi (10 km) west of Winters.

DRAINAGE AREA.--574 mi^2 (1,487 km^2).

PERIOD OF RECORD.--Chemical analyses: Water year 1952 (partial-record station), October 1952 to September 1966, October 1972 to current year.
Water temperatures: November 1965 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 19.0°C May 6, 7; minimum, 9.0°C Jan. 13.
Period of record:
Water temperatures: Maximum, 22.0°C May 21, 1967; minimum (1966-68, 1969 to current year), 6.5°C on several days in 1967, 1968, and 1973.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Clock stopped Oct. 1-18, Dec. 11-17, Aug. 1-19, Sept. 28-30; range in temperature, 11.5°C to 12.5°C, 11.0°C to 11.0°C, 12.0°C to 12.5°C, and 11.5°C to 12.0°C, respectively.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT., 1973								
12...	1345	170	16	--	9.4	--	171	0
NOV.								
12...	1415	74	19	--	14	--	156	0
DEC.								
12...	1045	58	18	--	10	--	178	0
JAN., 1974								
22...	1300	3260	17	27	10	1.6	174	0
FEB.								
06...	0900	906	16	--	10	--	174	0
MAR.								
05...	1200	4010	16	--	9.4	--	172	1
APR.								
16...	0915	1080	16	--	8.7	--	167	0
MAY								
30...	1045	662	17	--	9.7	--	200	0
JUNE								
13...	1300	743	14	--	9.5	--	167	0
JULY								
13...	1130	472	14	--	8.2	--	164	0
AUG.								
08...	0945	650	15	--	9.4	--	169	0
SEP.								
04...	1030	508	16	26	9.2	--	174	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT., 1973									
12...	140	--	5.4	--	160	.22	73.4	152	12
NOV.									
12...	128	--	11	--	169	.23	33.8	146	18
DEC.									
12...	146	--	7.6	--	185	.25	29.0	158	12
JAN., 1974									
22...	143	18	5.7	.09	196	.27	1730	153	10
FEB.									
06...	143	--	5.4	--	174	.24	426	153	10
MAR.									
05...	143	--	6.6	--	190	.26	2060	151	8
APR.									
16...	137	--	5.2	--	172	.23	502	150	13
MAY									
30...	144	--	5.4	--	187	.25	334	147	0
JUNE									
13...	137	--	6.7	--	164	.22	329	148	11
JULY									
13...	135	--	5.6	--	173	.24	220	148	13
AUG.									
08...	139	--	6.2	--	152	.21	267	149	10
SEP.									
04...	143	--	4.7	--	181	.25	248	146	3

11454000 PUTAH CREEK NEAR WINTERS, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT., 1973								
12...	--	--	260	8.0	13.0	2	12.3	100
NOV.								
12...	--	--	320	7.8	13.0	10	10.8	200
DEC.								
12...	--	--	320	7.8	11.0	4	10.6	200
JAN., 1974								
22...	12	.4	305	7.9	11.0	4	11.4	100
FEB.								
06...	--	--	310	8.0	10.0	4	11.8	--
MAR.								
05...	--	--	300	8.0	10.5	4	12.3	200
APR.								
16...	--	--	300	8.2	15.0	4	10.2	200
MAY								
30...	--	--	303	7.9	11.5	2	11.6	--
JUNE								
13...	--	--	301	8.0	12.0	2	11.2	100
JULY								
13...	--	--	306	8.1	13.0	2	10.9	100
AUG.								
08...	--	--	291	7.9	12.0	2	10.7	100
SEP.								
04...	--	.3	293	8.0	13.0	1	10.9	--

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

11454000 PUTAH CREEK NEAR WINTERS, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	12.0	18.0	17.5	12.5	12.0	13.0	11.5	---	---	12.0	11.5
2	12.5	12.0	18.0	17.0	12.5	12.0	11.5	11.0	---	---	12.0	11.5
3	12.5	12.5	18.0	17.0	12.5	12.0	11.5	11.0	---	---	12.0	11.5
4	12.5	12.5	18.5	18.0	12.5	12.0	11.5	11.0	---	---	12.0	11.5
5	12.5	12.5	18.5	18.5	12.0	11.5	11.5	11.0	---	---	12.0	11.5
6	13.0	12.5	19.0	18.0	12.0	11.5	11.5	11.0	---	---	12.0	11.5
7	13.0	12.5	19.0	18.0	12.0	11.5	11.5	11.0	---	---	12.0	11.5
8	13.5	12.5	18.0	18.0	12.0	11.5	11.5	11.0	---	---	12.0	11.5
9	13.5	13.0	18.0	17.0	12.0	11.5	12.0	11.5	---	---	12.0	11.5
10	14.0	13.0	17.0	16.5	12.0	11.0	12.0	11.0	---	---	12.0	11.5
11	15.0	14.0	17.0	16.0	12.0	11.0	12.0	11.5	---	---	12.0	11.5
12	15.5	15.0	16.0	15.0	12.0	11.5	12.0	11.0	---	---	12.0	11.5
13	15.5	15.0	15.0	14.0	12.0	11.5	11.5	11.0	---	---	12.0	11.5
14	15.5	15.0	14.5	13.5	12.5	11.5	12.0	11.5	---	---	12.0	11.5
15	15.5	15.0	14.0	13.0	12.0	11.5	12.5	11.5	---	---	12.0	11.5
16	15.5	15.0	13.5	12.5	12.5	11.5	12.5	11.5	---	---	12.0	11.5
17	16.5	15.0	13.0	12.0	12.0	11.5	12.0	11.5	---	---	12.0	11.5
18	16.5	15.5	12.5	12.0	12.0	11.5	12.0	11.5	---	---	12.0	11.5
19	16.0	15.0	13.0	12.0	12.5	11.5	12.0	11.5	---	---	12.0	11.5
20	16.5	16.0	13.0	12.0	12.5	11.5	12.0	11.5	12.0	11.5	12.0	11.5
21	17.0	16.0	12.5	12.0	12.0	11.5	12.0	11.5	12.0	11.5	12.0	11.5
22	17.0	17.0	13.0	12.0	12.5	11.5	12.5	11.5	12.5	11.5	12.0	11.5
23	17.0	16.5	13.0	12.0	12.5	11.5	12.5	11.5	12.5	11.5	12.0	11.5
24	16.5	16.0	13.0	12.0	12.5	11.5	13.5	11.5	12.5	11.5	12.0	11.5
25	16.0	16.0	13.0	12.0	12.5	11.5	12.0	11.5	12.5	11.5	12.0	11.5
26	16.0	16.0	12.5	12.0	12.5	11.5	12.5	11.5	12.0	11.5	12.0	11.5
27	16.5	16.0	12.5	12.0	12.5	11.0	12.5	11.0	12.0	11.5	12.0	11.5
28	17.0	16.5	12.5	12.0	13.0	11.0	12.0	11.5	12.0	11.5	---	---
29	17.0	16.5	12.5	12.0	11.5	11.0	12.0	11.5	12.0	11.5	---	---
30	18.0	17.0	12.5	12.0	11.5	11.0	12.0	11.5	11.5	11.5	---	---
31	---	---	12.5	12.0	---	---	12.0	11.5	12.0	11.5	---	---
MONTH	18.0	12.0	19.0	12.0	13.0	11.0	13.5	11.0	---	---	12.0	11.5

11456000 NAPA RIVER NEAR ST. HELENA, CALIF.

LOCATION.--Lat 38°29'52", long 122°25'37", in Carne Humana Grant, Napa County, temperature recorder at gaging station 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).
PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1966.
Water temperatures: October 1957 to current year.
Sediment records: December 1956 to June 1962.
EXTREMES.--Current year:
Water temperatures: Maximum, 27.0°C July 20; minimum, 6.0°C Jan. 3, 4.
Period of record:
Water temperatures: Maximum (1961-63, 1964-65, 1966-69, 1970 to current year), 33.5°C July 18, 1968; minimum (1961-63, 1965 to current year), 3.5°C Dec. 14, 15, 1967, Dec. 11, 1972.
REMARKS.--Recorder stopped Oct. 24 to Nov. 9.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

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

11460920 SALMON CREEK AT BODEGA, CALIF.

LOCATION.--Lat 38°20'54", long 122°58'45", in Estero Americano Grant, Sonoma County, temperature recorder at gaging station on left bank, 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.
DRAINAGE AREA.--15.7 mi^2 (40.7 km^2).
PERIOD OF RECORD.--Water temperatures: October 1964 to current year.
Sediment records: Water years 1971-72 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 23.5°C May 26; minimum, 1.5°C Jan. 3.
Period of record:
Water temperatures: Maximum, 23.5°C Apr. 26, 1965, May 26, 1974; minimum (1964-66, 1967 to current year), freezing point on many days during winter periods.
REMARKS.--No flow Oct. 15. Recorder stopped June 24-30, Aug. 20 to Sept. 30; range in temperatures, 10.0°C to 18.0°C and 9.5°C to 18.5°C, respectively.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	10.0	13.5	10.5	11.0	9.0	9.5	4.5	13.0	8.0	12.0	10.0
2	13.5	8.0	11.5	8.0	11.5	6.0	8.0	2.0	12.5	5.5	12.0	9.0
3	13.0	7.5	10.5	6.5	12.0	6.0	10.0	1.5	13.0	5.0	12.0	6.5
4	13.0	7.0	9.0	5.0	9.5	7.0	7.5	3.5	12.0	6.0	12.5	5.5
5	13.0	8.0	11.0	7.0	10.5	8.0	7.0	5.0	11.5	4.0	13.5	6.5
6	11.5	9.5	12.5	10.5	12.5	8.0	7.0	5.5	12.0	4.0	12.0	8.0
7	12.5	11.5	15.0	12.0	12.5	8.5	9.0	5.0	13.0	4.0	12.5	7.5
8	15.0	12.0	14.0	12.0	12.0	10.0	10.5	5.0	13.5	5.0	12.5	5.0
9	12.5	12.5	16.5	12.5	13.0	9.5	8.5	4.5	13.5	5.5	13.0	5.0
10	13.5	12.5	16.0	11.0	10.0	8.0	6.5	3.5	14.0	5.5	13.0	10.0
11	13.0	12.5	16.0	11.0	12.0	7.5	6.5	5.0	10.5	9.0	11.5	10.5
12	14.5	11.5	15.0	11.0	10.0	8.0	9.0	6.5	11.0	8.5	13.0	10.0
13	15.5	9.5	13.0	12.0	12.0	9.0	11.5	9.0	10.5	4.5	14.5	7.5
14	15.5	9.5	13.0	9.5	13.5	9.5	10.5	9.0	13.5	6.5	17.0	9.0
15	---	---	13.0	12.0	12.0	8.0	12.0	10.5	12.5	7.0	17.5	9.5
16	15.5	9.5	14.5	12.0	11.0	8.0	12.5	11.5	13.5	8.5	14.5	11.5
17	15.0	10.0	13.5	12.0	13.0	9.0	14.0	11.0	11.5	5.5	18.5	11.5
18	14.5	11.5	13.0	10.0	12.5	6.0	12.5	11.5	11.0	8.0	18.5	11.5
19	15.0	11.0	12.0	6.5	12.0	6.5	13.0	11.0	13.5	9.5	18.0	8.5
20	14.0	12.5	12.5	7.5	10.0	7.5	12.5	9.5	13.0	6.5	15.5	11.5
21	15.0	13.5	11.5	6.5	11.0	8.5	11.0	6.5	13.0	6.5	13.5	11.5
22	15.0	14.0	9.5	7.5	11.5	7.5	13.0	5.5	12.5	6.0	14.5	11.0
23	15.5	11.5	11.0	6.0	10.5	7.0	13.5	5.5	14.0	6.0	14.5	11.0
24	14.0	9.5	12.5	7.5	13.5	9.0	14.0	6.5	16.0	6.0	13.0	11.0
25	14.5	10.5	12.0	8.0	12.0	10.0	13.0	8.5	14.0	7.5	12.5	10.5
26	14.0	9.0	10.5	5.5	10.5	10.0	12.0	7.0	14.0	10.5	13.5	12.0
27	15.0	8.5	11.5	8.5	12.0	10.0	12.0	4.5	11.5	8.0	13.0	12.0
28	15.0	9.5	14.5	9.0	13.0	11.0	11.0	5.0	11.5	10.5	14.5	11.5
29	15.0	9.0	12.5	10.0	14.0	10.0	11.5	5.0	---	---	12.5	12.0
30	14.5	8.5	11.5	10.5	12.0	6.5	11.5	7.0	---	---	15.0	9.5
31	14.0	8.5	---	---	9.0	6.5	10.0	8.0	---	---	11.5	9.0
MONTH	15.5	7.0	16.5	5.0	14.0	6.0	14.0	1.5	16.0	4.0	18.5	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	9.5	18.0	12.5	17.0	15.0	18.0	16.0	18.5	14.5		
2	14.0	7.5	18.0	10.0	18.5	13.0	17.0	13.0	17.0	15.0		
3	15.0	7.5	17.0	12.5	19.0	13.5	18.0	15.0	16.5	13.0		
4	17.0	7.0	15.0	13.0	19.0	13.0	18.0	15.0	16.5	13.5		
5	13.5	10.0	17.5	12.0	19.0	16.0	18.0	15.0	16.5	13.0		
6	15.5	7.0	20.0	13.0	19.5	15.0	19.0	15.0	16.5	14.0		
7	17.5	8.0	19.0	14.0	20.0	14.0	18.0	14.5	15.0	12.5		
8	14.0	9.0	19.5	13.0	19.5	14.5	14.5	13.0	18.0	13.0		
9	15.0	9.0	18.0	12.5	18.5	13.5	18.0	12.0	17.5	14.5		
10	16.0	7.0	18.0	12.0	17.5	14.5	17.0	13.5	16.5	14.5		
11	18.0	8.0	19.0	12.5	16.0	14.0	17.0	12.0	15.0	14.0		
12	20.0	9.5	17.0	13.5	16.5	13.5	18.0	12.0	15.5	14.0		
13	20.0	11.0	16.5	11.5	17.0	13.5	18.5	14.0	17.0	14.0		
14	18.5	9.0	16.5	11.5	16.5	12.5	18.0	14.0	17.5	13.5		
15	17.5	8.5	16.5	12.5	16.0	12.5	16.5	14.5	17.0	13.5		
16	19.5	9.0	15.5	10.0	16.0	13.5	16.0	13.5	17.5	14.0		
17	14.0	11.5	14.5	9.5	16.5	13.0	17.5	13.5	17.5	13.5		
18	15.0	10.0	14.5	9.5	15.0	12.5	18.5	15.0	16.5	12.5		
19	17.5	8.5	15.0	9.0	15.0	12.0	19.5	15.0	16.5	11.5		
20	18.5	9.0	16.0	10.0	17.0	11.5	18.0	16.0	---	---		
21	17.0	11.0	17.5	10.5	17.5	12.5	19.0	15.0	---	---		
22	17.5	12.0	17.5	11.0	17.5	12.5	18.0	14.0	---	---		
23	16.5	11.5	17.5	12.0	16.0	12.5	20.0	14.5	---	---		
24	16.0	11.0	18.5	13.0	---	---	20.5	15.0	---	---		
25	15.0	9.0	21.5	14.0	---	---	19.5	16.5	---	---		
26	17.5	11.0	23.5	13.0	---	---	18.5	16.0	---	---		
27	17.5	9.0	19.0	15.5	---	---	18.5	16.0	---	---		
28	21.0	9.5	16.0	13.0	---	---	17.5	16.0	---	---		
29	21.5	11.0	18.0	11.0	---	---	17.0	15.0	---	---		
30	19.0	13.5	18.5	11.5	---	---	17.5	14.5	---	---		
31	---	---	18.0	12.5	---	---	17.0	14.5	---	---		
MONTH	21.5	7.0	23.5	9.0	---	---	20.5	12.0	---	---		

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CALIF.

LOCATION.--Lat 39°14'48", long 123°07'45", in NW¼NW¼ sec.18, T.16 N., R.11 W., Mendocino County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: Water years 1951-52 (partial-record station), October 1952 to September 1958, March 1973 to current year.
Water temperatures: March 1964 to current year
Sediment records: March to September 1964, October 1966 to September 1968.
Turbidity: Water years 1964-71 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 27.0°C July 31, Aug. 1; minimum. 6.0°C Jan. 2, 4.
Period of record:
Water temperatures: Maximum (1965-66, 1967 to current year), 29.0°C Aug. 11, 1971, July 1, 1972; minimum (1965-67, 1968-70, 1971 to current year), 2.0°C Dec. 12, 1972.

REMARKS.--Selected chemical-quality analyses furnished by Corps of Engineers. No thermograph record Oct. 15 to Nov. 4, probe inoperative; Jan. 5-11, recorder stopped.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
OCT.						
05...	1010	319	160	7.6	16.0	4
19...	0945	5.6	250	7.5	14.0	1
NOV.						
02...	0935	5.4	300	7.8	9.0	1
16...	1015	1210	125	7.4	12.0	110
30...	0940	3000	87	7.3	10.0	340
DEC.						
14...	0935	696	147	7.3	9.0	35
28...	0945	952	141	6.7	10.0	30
JAN.						
11...	0930	437	154	7.1	5.0	15
25...	1000	310	154	8.2	8.0	75
FEB.						
08...	1000	457	145	7.8	7.0	100
22...	1000	580	165	7.6	6.0	50
MAR.						
08...	0930	618	155	7.6	5.0	50
22...	1000	281	157	7.8	10.0	35
APR.						
02...	0900	1440	160	7.5	10.0	80
19...	0940	450	166	--	10.0	75
MAY						
03...	0940	381	159	7.5	13.0	55
09...	1130	327	140	7.3	15.0	--
17...	1132	332	151	7.8	15.0	50
31...	0945	313	154	7.5	15.0	35
JUNE						
14...	0945	290	152	7.5	16.0	30
28...	0930	202	160	7.5	18.0	25
JULY						
12...	1000	129	174	7.8	17.0	10
23...	1000	55	187	8.1	20.5	--
26...	0925	59	200	7.6	21.0	5
AUG.						
09...	1025	76	200	7.6	21.0	5
21...	1245	90	166	7.9	20.5	--
23...	1020	85	170	7.5	19.0	10
SEP.						
06...	1000	152	130	7.5	19.0	15
20...	1000	310	170	7.6	18.0	5

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	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)
OCT.									
02...	1400	330	.01	.02	.14	.17	.20	.00	.34
NOV.									
02...	1500	5.4	.11	.03	.16	.17	.24	.00	.40
DEC.									
03...	1700	562	.33	.28	.10	.09	.13	.00	.23
JAN.									
04...	1130	516	.19	.20	.06	.01	.15	.16	.21
FEB.									
19...	1350	980	.08	.10	.55	.12	.00	.19	.51
MAR.									
05...	1130	648	.20	.18	.33	.03	.01	.04	.34
APR.									
02...	1700	1280	.12	.11	.47	.01	.19	.25	.66
MAY									
09...	1130	327	.04	.03	.17	.01	.06	.09	.23
JUNE									
13...	1115	285	.15	.15	.08	.08	.24	.07	.32
JULY									
23...	1000	55	.12	.08	.11	.00	.02	.18	.13
AUG.									
21...	1245	90	.08	.09	.08	.03	.21	.14	.29

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)	TEMPERATURE (DEG C)	DISSOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
OCT.								
02...	--	.16	.35	--	.03	16.5	--	--
NOV.								
02...	.24	.16	.51	.04	.04	12.5	--	--
DEC.								
03...	.14	.09	.56	.07	.04	9.5	--	--
JAN.								
04...	.04	.17	.40	.06	.03	6.0	--	--
FEB.								
19...	.20	.31	.59	.12	.04	9.0	--	--
MAR.								
05...	.27	.07	.54	.13	.02	8.5	--	--
APR.								
02...	.40	.26	.78	.19	.02	11.5	--	--
MAY								
09...	.13	.10	.27	.07	.03	15.0	--	--
JUNE								
13...	.17	.15	.47	.06	.03	17.0	1.6	2.0
JULY								
23...	--	.18	.25	.08	.04	20.5	3.4	--
AUG.								
21...	.12	.17	.37	.05	.04	20.5	3.2	.2

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

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

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CALIF.

LOCATION.--Lat 39°11'45", long 123°11'30", in Yokayo Rancho Grant, Mendocino County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: December 1952 to March 1955, March 1973 to current year.
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.

EXTREMES.--Current year:
Water temperatures: Maximum, 21.0°C on several days during September; minimum, 8.0°C on several days during January and February.
Period of record:
Water temperatures (1972 to current year): Maximum, 22.5°C on several days in 1973; minimum, 7.0°C Jan. 14, 1973.

REMARKS.--Selected chemical-quality analyses furnished by Corps of Engineers.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)
OCT.						
05...	1025	306	172	7.7	20.0	4
19...	1005	326	173	7.6	19.0	2
NOV.						
02...	1000	131	165	8.0	18.0	3
16...	1045	31	145	7.6	14.0	50
30...	1000	31	146	7.6	13.0	20
DEC.						
14...	0955	33	139	7.5	11.0	30
28...	1020	1300	139	--	11.0	40
JAN.						
11...	0945	31	193	7.6	7.0	20
25...	1015	1130	124	7.2	10.0	140
FEB.						
08...	1015	33	226	8.0	9.0	80
22...	1015	33	129	7.7	9.0	150
MAR.						
08...	1000	33	132	7.7	8.0	80
22...	1015	35	126	7.8	9.0	55
APR.						
05...	1030	2580	141	7.5	12.0	75
19...	1000	425	133	7.4	11.0	60
MAY						
03...	1000	608	138	7.3	11.0	50
09...	1430	612	135	7.1	11.0	--
17...	1200	282	141	7.5	11.0	40
31...	1005	237	143	7.5	12.0	40
JUNE						
13...	1345	278	140	7.0	11.5	--
14...	1000	278	137	7.5	16.0	30
28...	0545	252	152	7.4	13.0	30
JULY						
12...	1050	248	144	7.5	13.0	25
23...	1445	270	142	7.9	13.0	--
26...	0945	270	151	7.4	14.0	25
AUG.						
09...	1100	326	155	7.4	15.0	20
21...	1720	352	175	8.1	15.0	--
23...	1045	352	157	7.0	16.0	10
SEP.						
06...	1030	516	194	7.1	18.0	2
20...	0945	430	165	7.0	20.0	1

11462000 EAST FORK RUSSIAN RVER NEAR UKIAH, CALIF--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	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)
OCT.									
02...	1445	255	.02	.03	.20	.23	.07	.01	.27
NOV.									
05...	1415	128	.34	.34	.16	.16	.18	.02	.34
DEC.									
04...	1415	2980	.22	.23	.18	.12	.23	.03	.41
JAN.									
03...	1515	31	.24	.24	.09	.03	.29	.23	.38
FEB.									
19...	1210	33	.17	.18	.13	.08	.22	.00	.35
MAR.									
04...	1825	4010	.17	.15	.26	.04	.28	.05	.54
APR.									
03...	1430	3260	.13	.13	.31	.02	.12	.15	.43
MAY									
09...	1430	612	.10	.08	.15	.01	.01	.15	.16
JUNE									
13...	1345	278	.13	.13	.07	.00	1.2	.11	1.3
JULY									
23...	1445	270	.11	.08	.05	.00	.03	.13	.08
AUG.									
21...	1720	352	.04	.03	.04	.04	.01	.00	.05

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)	TEMPERATURE (DEG C)	DISSOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
OCT.								
02...	--	.24	.29	--	.03	20.0	--	--
NOV.								
05...	.16	.18	.68	.05	.05	16.0	--	--
DEC.								
04...	.26	.15	.63	.10	.14	11.5	--	--
JAN.								
03...	.12	.26	.62	.07	.03	9.5	--	--
FEB.								
19...	.28	.07	.52	.11	.04	8.5	--	--
MAR.								
04...	.45	.09	.71	.16	.02	9.5	--	--
APR.								
03...	.26	.17	.56	.10	.02	10.0	--	--
MAY								
09...	.00	.16	.26	.06	.03	11.0	--	--
JUNE								
13...	1.2	.11	1.4	.06	.03	11.5	1.9	1.7
JULY								
23...	.00	.13	.19	.06	.02	13.0	4.2	.2
AUG.								
21...	.01	.04	.09	.02	.01	15.0	1.9	.4

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	9.5	12.0	11.5	12.0	11.5	13.0	12.5	14.5	13.0	16.5	15.5
2	10.5	9.5	12.0	11.0	12.0	11.5	13.0	12.5	14.0	13.0	16.5	15.5
3	11.0	10.0	11.5	11.0	12.0	11.5	13.0	12.5	14.0	13.0	17.0	16.0
4	11.0	10.5	12.0	11.0	12.5	11.5	13.0	12.5	14.0	13.0	17.0	16.5
5	11.0	10.5	12.0	11.5	12.5	11.5	13.0	12.5	13.5	13.5	17.0	16.5
6	11.0	10.5	12.0	11.5	12.5	11.5	13.0	13.0	14.0	13.5	17.0	16.5
7	11.5	10.0	12.0	11.0	12.5	11.5	13.0	12.5	14.0	13.5	17.0	16.5
8	10.5	10.0	12.0	11.5	12.5	12.0	13.0	12.5	14.0	13.5	17.0	16.5
9	10.5	10.0	12.0	11.0	12.5	12.0	13.5	12.5	14.5	13.5	17.5	17.0
10	10.5	10.0	12.0	11.0	12.5	12.0	13.5	12.5	14.5	13.5	17.5	17.0
11	10.5	10.0	11.5	10.5	12.5	12.0	13.5	12.5	14.5	14.0	17.5	17.0
12	10.5	10.5	11.5	10.5	12.5	12.0	13.5	12.5	14.5	14.0	17.5	17.0
13	11.0	10.5	11.5	10.5	12.5	11.5	13.5	13.0	15.0	14.0	18.0	17.5
14	11.0	10.5	11.5	10.5	12.5	12.0	13.5	13.0	15.0	14.0	18.5	18.0
15	11.5	10.5	11.5	10.5	12.5	12.0	13.5	13.0	15.0	14.5	19.0	18.0
16	11.5	10.5	11.5	11.0	12.5	12.0	13.5	13.0	15.0	14.5	19.0	18.5
17	11.0	10.5	11.5	11.0	12.5	12.0	13.5	13.0	15.0	14.5	19.5	19.0
18	11.5	11.0	11.5	11.0	13.0	12.0	13.5	13.0	15.5	14.5	19.5	19.0
19	11.5	10.5	11.5	11.0	12.5	12.0	13.5	13.0	15.5	15.0	19.5	19.0
20	11.5	10.5	12.0	11.0	13.0	12.0	13.5	12.5	15.5	15.0	20.0	19.5
21	11.5	10.5	12.0	11.0	12.5	12.0	13.5	13.0	15.5	15.0	20.5	19.5
22	11.5	11.0	12.0	11.0	12.5	12.0	13.5	13.0	15.5	15.0	20.5	20.0
23	11.5	11.0	12.0	11.5	12.5	12.0	13.5	13.0	16.0	15.0	20.5	20.0
24	11.5	11.0	12.0	11.5	12.5	12.0	13.5	12.5	16.0	15.0	20.5	20.0
25	11.5	11.0	12.0	11.5	13.0	12.0	13.5	13.0	16.0	15.0	21.0	20.5
26	11.5	11.0	12.0	11.5	13.0	12.5	13.5	13.0	16.0	15.0	21.0	20.5
27	11.5	11.0	12.0	11.5	13.0	12.5	13.5	12.5	16.0	15.0	21.0	20.5
28	12.0	11.0	12.0	11.5	13.0	12.5	13.5	13.0	16.0	15.5	21.0	20.5
29	11.5	11.0	12.0	11.5	13.0	12.5	14.0	13.0	16.0	15.5	21.0	20.5
30	11.5	11.0	12.0	11.5	13.0	12.5	13.5	13.0	16.0	15.5	21.0	20.5
31	---	---	12.0	11.5	---	---	13.5	13.0	16.0	15.5	---	---
MONTH	15.5	9.5	12.0	10.5	13.0	11.5	14.0	12.5	16.0	13.0	21.0	15.5

11462500 RUSSIAN RIVER NEAR HOPLAND, CALIF.

LOCATION.--Lat 39°01'36", long 123°07'46", in Rancho de Sanel Grant, Mendocino County, temperature recorder at gaging station on right bank, at abandoned highway bridge, 0.2 mi (0.3 km) downstream from McNab Creek, and 4 mi (6 km) north of Hopland.
DRAINAGE AREA.--362 mi^2 (938 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1965, water year 1966 (partial-record station).
Water temperatures: September 1965 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 21.5°C Oct. 4, Sept. 24; minimum, 7.5°C Jan. 3, 4, 10, Mar. 8.
Period of record:
Water temperatures: Maximum (1965-66, 1968-69, 1971 to current year), 24.0°C on several days in 1969 and 1973; minimum (1965-68, 1969-70, 1971 to current year), 5.0°C Feb. 2, Dec. 16, 1972.
REMARKS.--Recorder stopped Dec. 5 to Jan. 2, Mar. 26 to Apr. 3, June 10-13; recorder malfunction June 14-16.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	18.5	17.5	15.0	11.5	11.0	---	---	11.0	10.0	10.5	10.0
2	20.5	17.5	16.0	14.0	11.0	10.0	---	---	11.0	9.0	10.0	9.0
3	21.0	17.5	15.5	13.0	12.0	10.0	9.5	7.5	10.5	9.0	10.0	8.0
4	21.5	17.5	14.0	13.0	12.0	11.5	9.5	7.5	11.0	9.5	10.0	8.5
5	20.0	17.5	14.0	13.0	---	---	9.5	9.0	11.0	9.5	10.0	9.5
6	20.0	18.0	15.5	13.0	---	---	9.5	8.5	10.0	9.0	10.5	9.5
7	20.5	18.5	16.0	15.0	---	---	9.5	9.0	10.5	9.0	10.5	9.5
8	19.5	17.5	15.5	14.5	---	---	9.5	8.5	11.0	9.5	10.5	7.5
9	20.0	17.5	15.5	14.5	---	---	9.0	8.0	11.0	10.0	11.0	8.0
10	20.0	17.0	15.0	14.5	---	---	9.0	7.5	11.5	10.0	11.0	10.5
11	20.0	17.0	15.5	14.5	---	---	8.5	8.0	11.0	9.0	11.0	10.0
12	20.0	17.5	15.0	13.5	---	---	10.0	8.5	9.5	9.0	11.0	9.5
13	20.0	17.5	13.5	12.5	---	---	11.0	10.0	9.5	8.5	12.5	9.0
14	20.0	17.5	13.5	12.0	---	---	11.0	10.5	11.0	9.0	13.0	10.0
15	20.0	17.5	13.5	13.0	---	---	12.0	11.0	12.0	10.5	13.0	11.0
16	20.0	17.0	14.0	13.0	---	---	12.5	12.0	11.5	11.0	13.0	12.0
17	19.5	17.0	13.0	12.5	---	---	12.0	11.0	11.0	9.5	14.0	12.0
18	19.5	17.0	12.5	11.5	---	---	13.0	11.0	10.5	9.0	14.5	12.0
19	19.0	17.5	11.5	10.5	---	---	11.5	10.5	10.5	9.0	14.5	11.5
20	19.5	18.0	11.5	11.5	---	---	10.5	10.5	10.0	8.0	14.0	12.0
21	19.0	18.0	12.0	11.0	---	---	10.5	10.0	10.0	9.0	14.0	12.5
22	18.5	18.0	12.0	11.0	---	---	10.5	10.0	10.0	8.5	14.0	12.5
23	18.0	17.0	11.5	10.5	---	---	10.5	10.0	10.5	8.0	14.5	12.5
24	18.5	16.0	11.5	11.0	---	---	10.5	10.0	11.0	8.5	14.5	12.5
25	19.0	17.5	11.5	11.0	---	---	11.0	10.0	11.5	10.0	14.0	12.5
26	18.0	16.0	11.5	10.5	---	---	11.0	10.0	12.0	11.5	---	---
27	18.0	16.0	12.0	11.0	---	---	11.0	9.5	11.5	9.0	---	---
28	18.0	16.0	13.0	12.0	---	---	11.0	10.0	10.5	9.5	---	---
29	17.5	15.5	13.5	12.5	---	---	11.0	10.0	---	---	---	---
30	18.0	16.0	12.5	11.5	---	---	11.0	10.5	---	---	---	---
31	18.0	16.5	---	---	---	---	11.0	10.0	---	---	---	---
MONTH	21.5	15.5	17.5	10.5	---	---	13.0	7.5	12.0	8.0	14.5	7.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	15.5	12.5	18.5	14.5	19.0	15.5	20.0	15.5	19.5	15.5
2	---	---	15.5	11.5	19.0	15.0	18.5	14.5	20.0	16.0	20.0	16.0
3	---	---	15.5	12.0	18.5	15.0	18.5	14.5	19.5	15.5	19.5	15.5
4	12.5	10.0	16.0	12.0	18.0	14.0	18.5	14.5	19.5	16.0	19.5	16.0
5	11.5	10.5	16.5	12.0	18.5	14.5	18.5	14.5	17.0	16.0	20.0	16.5
6	12.0	10.0	16.5	12.5	18.5	14.5	18.5	15.0	20.0	16.0	20.0	16.5
7	13.5	10.5	16.5	12.5	18.0	14.0	17.0	14.5	19.5	16.0	19.5	16.5
8	13.5	11.5	16.5	13.0	18.0	14.0	16.5	14.5	20.0	16.0	19.5	15.5
9	13.0	10.5	16.0	12.5	18.5	14.0	18.5	15.5	19.5	15.5	20.0	17.0
10	14.0	10.0	16.5	12.0	---	---	17.5	15.5	19.5	15.5	20.5	17.0
11	15.0	11.0	19.5	14.0	---	---	18.5	16.0	19.5	15.5	20.5	17.0
12	16.0	12.0	19.5	16.0	---	---	19.0	16.0	18.0	15.0	20.0	16.5
13	16.0	10.5	19.5	15.0	---	---	19.0	15.5	19.0	15.5	20.5	17.0
14	14.0	10.5	20.0	14.5	---	---	19.0	15.5	19.0	14.5	20.5	17.0
15	14.0	10.5	20.0	15.0	---	---	19.0	15.5	19.0	15.0	20.5	17.0
16	14.5	11.0	19.5	14.0	---	---	19.0	15.0	18.5	14.5	20.5	17.0
17	14.0	11.0	16.0	13.0	16.0	13.0	19.5	16.0	19.0	14.5	21.0	17.0
18	13.0	11.0	14.5	12.0	14.5	13.0	20.5	17.5	19.0	14.5	21.0	17.5
19	14.0	10.5	16.0	12.0	14.0	13.0	20.5	17.0	18.5	15.0	21.0	17.5
20	15.0	11.0	16.0	12.5	18.0	13.5	20.5	17.0	19.0	15.0	21.0	17.5
21	15.5	11.0	16.5	12.5	18.5	15.5	20.5	17.0	19.0	15.0	21.0	18.0
22	15.0	12.0	17.0	12.5	19.0	15.5	20.0	17.0	19.5	15.5	21.0	18.0
23	15.0	11.5	17.0	13.0	18.5	15.0	20.0	16.5	20.0	16.0	21.0	18.0
24	13.0	11.5	17.0	13.0	18.5	15.0	20.0	16.0	20.0	15.5	21.5	18.0
25	12.5	11.0	18.0	13.5	18.0	15.0	19.5	16.0	19.0	16.0	21.0	18.5
26	13.5	11.5	18.5	14.0	18.0	14.5	20.0	16.0	19.0	15.5	21.0	18.5
27	15.5	11.0	18.0	14.0	18.5	14.5	19.5	15.5	19.5	15.5	21.0	18.5
28	16.0	11.5	18.0	13.0	19.0	15.0	19.5	16.0	19.5	15.5	20.5	18.0
29	16.5	12.0	18.0	14.0	19.0	15.5	19.5	16.0	18.5	16.0	21.0	18.5
30	16.5	12.5	18.0	14.0	19.0	15.5	20.0	15.5	18.0	15.5	21.0	18.0
31	---	---	18.5	14.0	---	---	19.5	16.0	19.5	16.0	---	---
MONTH	16.5	10.0	20.0	11.5	---	---	20.5	14.5	20.0	14.5	21.5	15.5

11464000 RUSSIAN RIVER NEAR HEALDSBURG, CALIF.

LOCATION.--Lat 38°36'48", long 122°50'07", in Sotoyome Grant, Sonoma County, temperature recorder at gaging station 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).
PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1965, water year 1966 (partial-record station).
Water temperatures: October 1965 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 27.0°C July 24, 25; minimum, 6.0°C Jan. 3, 4.
Period of record:
Water temperatures: Maximum (1965-68, 1969-70, 1971 to current year), 28.0°C July 13, 14, 1972; minimum (1965-69, 1971 to current year), 5.0°C Dec. 10, 11, 1972.
REMARKS.--Recorder malfunction Oct. 27 to Nov. 12; recorder stopped Nov. 13-29, Jan. 1, 2, 31, Feb. 1, Feb. 17 to Mar. 1, Apr. 2-30.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	15.5	---	---	11.5	11.0	---	---	---	---	---	---
2	19.5	13.5	---	---	11.0	10.5	---	---	11.0	9.5	10.5	9.5
3	20.0	13.5	---	---	11.0	10.0	7.5	6.0	10.0	9.0	10.0	9.0
4	19.5	13.5	---	---	11.0	11.0	7.0	6.0	10.5	9.5	10.5	9.0
5	18.5	13.5	---	---	11.5	11.0	7.5	7.0	10.5	9.0	11.5	9.5
6	18.0	16.0	---	---	12.0	11.5	7.5	7.5	10.0	8.5	11.0	10.0
7	19.0	15.5	---	---	12.5	12.0	8.0	7.5	10.0	9.0	10.5	10.0
8	17.0	14.5	---	---	13.0	12.5	8.0	7.0	10.5	9.5	10.0	8.5
9	18.5	15.0	---	---	13.0	12.5	8.0	7.0	11.0	9.5	11.5	9.0
10	18.5	14.5	---	---	12.5	11.5	7.5	7.0	11.0	10.0	11.5	10.5
11	18.5	14.5	---	---	11.5	11.0	8.0	7.5	11.0	10.0	11.5	10.5
12	18.5	14.5	---	---	11.5	11.0	8.5	8.0	10.0	9.5	11.5	10.5
13	20.0	15.5	---	---	11.0	11.0	10.0	9.0	9.5	9.0	12.0	10.5
14	20.0	16.0	---	---	11.0	10.5	10.5	10.0	9.5	9.0	13.5	11.5
15	19.0	15.5	---	---	11.0	10.5	11.5	10.5	10.8	9.5	14.0	12.0
16	19.5	14.5	---	---	11.0	10.5	12.0	11.5	11.0	10.5	14.0	13.0
17	19.5	16.0	---	---	12.0	11.0	12.0	12.0	---	---	15.0	13.0
18	19.0	16.0	---	---	11.5	9.5	12.5	12.0	---	---	15.5	13.0
19	18.5	15.5	---	---	10.0	9.5	12.5	11.5	---	---	15.5	12.5
20	18.0	16.5	---	---	10.0	10.0	11.5	10.5	---	---	15.0	13.0
21	18.0	17.0	---	---	10.0	9.5	10.5	9.5	---	---	14.0	13.0
22	17.0	15.0	---	---	10.0	9.5	10.0	9.0	---	---	13.5	12.5
23	15.5	14.5	---	---	10.0	9.5	10.5	9.5	---	---	14.0	12.5
24	16.0	13.5	---	---	11.5	10.0	10.5	10.0	---	---	14.0	13.0
25	16.0	13.5	---	---	11.5	11.0	10.5	10.0	---	---	13.0	12.5
26	16.5	13.5	---	---	11.5	10.5	10.5	9.5	---	---	13.0	12.5
27	---	---	---	---	11.0	10.5	10.5	9.0	---	---	13.0	12.0
28	---	---	---	---	11.0	10.5	10.5	9.5	---	---	12.5	11.5
29	---	---	---	---	12.0	11.0	10.5	9.5	---	---	12.5	12.5
30	---	---	13.0	11.5	11.0	9.5	10.5	10.0	---	---	12.5	12.0
31	---	---	---	---	9.5	9.0	---	---	---	---	12.5	11.0
MONTH	20.0	13.5	---	---	13.0	9.0	12.5	6.0	---	---	15.5	8.5

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

11464500 DRY CREEK NEAR CLOVERDALE, CALIF.

LOCATION.--Lat 38°44'59", long 123°05'28", in NE¼NE¼ sec.5, T.10 N., R.11 W., Sonoma County, temperature recorder at gaging station 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).

PERIOD OF RECORD.--Water temperatures: May 1965 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 30.0°C July 24; minimum, 6.0°C Feb. 23, 24.
Period of record:
Water temperatures: Maximum (1965-66, 1967 to current year), 33.5°C Aug. 6, 7, 1966; minimum (1966 to current year), 2.0°C Dec. 10, 1972.

REMARKS.--Recorder stopped Dec. 17 to Jan. 11; probe inoperative Mar. 30 to Apr. 2.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.0	16.5	17.0	14.0	12.5	11.5	---	---	12.0	9.5	11.5	10.5
2	21.5	15.0	15.5	12.0	12.5	11.0	---	---	11.0	8.0	11.5	10.5
3	21.5	14.5	15.0	11.0	12.5	11.0	---	---	10.5	7.5	12.0	10.0
4	21.0	14.0	12.5	9.5	12.0	11.0	---	---	11.0	7.0	13.0	9.0
5	20.5	13.5	12.5	10.5	12.5	11.5	---	---	10.0	7.0	14.0	10.5
6	17.5	16.0	14.5	12.5	13.0	11.5	---	---	9.5	6.5	13.0	11.0
7	20.0	16.5	15.0	14.0	13.0	12.0	---	---	10.5	6.5	11.5	10.0
8	19.5	16.0	15.5	14.5	13.5	12.0	---	---	10.5	7.5	12.0	8.0
9	20.5	16.0	14.5	14.5	12.5	11.5	---	---	10.5	7.0	13.0	8.0
10	20.0	15.0	15.0	14.5	12.0	11.0	---	---	10.5	7.5	12.0	10.5
11	20.0	15.0	15.0	14.5	11.5	10.5	---	---	9.5	8.5	12.0	10.5
12	20.5	15.5	15.0	14.0	11.5	10.5	8.0	7.0	10.5	8.0	13.0	10.5
13	20.5	15.5	14.5	12.5	12.0	11.0	9.5	8.0	10.0	7.0	14.0	10.0
14	20.0	15.0	14.0	12.0	11.5	11.0	9.5	9.0	11.5	8.0	15.0	11.0
15	20.0	15.0	14.0	13.5	11.0	10.0	11.0	9.5	12.0	8.5	15.0	11.0
16	20.0	14.5	14.0	13.0	12.0	10.5	11.5	10.0	12.0	9.5	15.0	12.5
17	19.5	15.0	14.0	13.0	---	---	12.0	11.0	11.0	7.5	16.5	12.0
18	19.0	15.5	13.5	11.0	---	---	12.0	11.5	10.0	9.0	17.0	12.0
19	19.0	15.5	12.0	10.0	---	---	12.5	11.5	11.0	8.5	16.5	11.0
20	18.0	16.5	12.0	11.0	---	---	12.5	10.0	10.5	7.5	16.0	11.5
21	19.0	17.0	12.0	10.0	---	---	10.5	8.5	10.0	7.0	14.0	12.5
22	18.0	15.0	11.0	10.5	---	---	11.0	8.5	10.0	7.0	14.5	12.0
23	16.0	13.5	12.0	10.0	---	---	11.0	8.5	10.0	6.0	15.0	12.0
24	18.0	13.0	11.5	10.0	---	---	11.5	9.5	11.0	6.0	14.0	12.0
25	18.0	14.0	12.0	10.0	---	---	11.5	9.0	11.5	7.5	13.0	12.0
26	18.0	13.0	11.0	9.0	---	---	11.0	8.5	11.5	9.0	14.5	12.5
27	18.5	13.0	12.0	11.0	---	---	11.0	8.0	10.0	7.5	13.0	12.0
28	18.5	13.5	14.0	11.5	---	---	11.0	8.5	10.5	10.0	14.0	12.0
29	17.5	13.0	13.0	12.5	---	---	11.0	8.0	---	---	13.0	12.5
30	19.0	13.0	12.5	11.5	---	---	11.5	9.5	---	---	---	---
31	18.5	13.5	---	---	---	---	11.0	10.5	---	---	---	---
MONTH	22.0	13.0	17.0	9.0	---	---	---	---	12.0	6.0	17.0	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	21.5	14.5	25.5	18.0	27.0	20.0	28.5	21.0	25.0	18.5
2	---	---	21.0	13.5	26.0	17.5	27.5	18.0	28.5	21.5	25.0	18.5
3	15.5	11.0	22.0	14.0	26.0	18.0	27.0	19.5	28.0	21.0	25.5	18.0
4	15.5	11.0	22.5	15.0	25.5	17.5	28.0	19.5	28.0	21.0	26.0	18.0
5	13.5	12.0	23.0	16.0	26.0	18.5	27.5	19.5	27.0	21.0	27.0	19.0
6	16.5	11.0	23.5	16.0	26.0	18.5	26.5	20.0	29.5	21.5	26.0	19.0
7	16.0	11.0	24.5	16.5	25.5	17.0	25.0	19.0	28.5	21.0	25.0	19.0
8	15.5	11.5	25.0	17.0	26.5	17.5	20.5	19.0	28.0	20.5	25.0	18.0
9	15.5	11.5	22.5	16.0	27.0	18.5	25.5	19.0	27.5	20.5	25.0	18.5
10	16.5	10.0	23.0	15.0	27.0	19.0	25.0	18.0	27.0	21.0	26.5	19.5
11	18.0	11.0	23.0	15.0	26.0	19.0	26.5	18.0	26.5	21.0	26.0	19.0
12	18.0	12.0	22.0	15.0	26.5	19.0	27.5	18.5	26.5	20.5	23.5	18.0
13	18.5	12.0	21.5	14.0	26.5	19.0	28.0	19.5	27.0	20.0	24.5	19.0
14	18.0	12.0	21.5	13.5	26.0	19.5	27.0	19.5	27.5	19.5	24.0	18.5
15	18.5	11.5	21.5	14.0	26.0	19.0	27.0	19.5	26.5	19.5	23.5	18.0
16	19.5	12.0	20.5	12.5	23.5	19.0	26.5	19.0	26.5	20.0	23.5	18.0
17	18.0	13.0	19.0	13.0	20.5	18.5	27.5	19.0	26.5	19.5	24.0	18.0
18	15.5	12.5	19.5	13.0	22.0	17.5	29.0	21.0	25.0	18.5	23.0	17.5
19	18.0	11.5	21.0	12.5	20.0	17.5	29.0	21.0	26.0	18.0	24.0	18.0
20	19.0	11.5	21.5	13.0	26.5	16.5	28.5	21.0	27.0	18.5	23.0	17.5
21	20.0	12.5	23.0	14.5	27.0	18.5	28.0	21.0	27.5	19.0	23.0	17.5
22	20.0	13.0	23.0	15.0	26.5	18.5	28.0	20.5	27.0	19.5	22.5	17.5
23	17.0	13.5	23.0	15.0	26.5	18.5	29.5	20.5	28.5	20.0	23.0	18.0
24	15.5	12.5	23.0	15.5	27.0	18.5	30.0	22.0	27.5	20.0	22.5	17.5
25	16.0	11.0	25.0	16.5	26.0	18.0	26.0	22.5	26.0	19.0	20.5	17.5
26	17.0	12.0	26.5	18.0	26.0	17.5	28.5	22.0	26.0	19.0	22.5	18.0
27	19.5	11.5	25.0	17.5	26.5	18.0	28.5	22.0	25.5	19.5	22.5	18.0
28	20.5	12.5	24.5	17.0	28.0	19.5	28.5	21.5	25.5	19.0	22.5	17.5
29	22.0	13.5	25.0	16.5	28.0	20.0	28.5	21.5	24.5	19.0	22.5	18.0
30	22.5	14.5	25.5	16.5	27.5	20.5	28.0	21.0	23.0	19.0	23.0	16.5
31	---	---	25.0	17.0	---	---	28.0	21.0	24.5	19.0	---	---
MONTH	22.5	10.0	26.5	12.5	28.0	16.5	30.0	18.0	29.5	18.0	27.0	16.5

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.

LOCATION.--Lat 38°41'55", long 122°57'25", in Tzabaco Grant, Sonoma County, at gaging station 0.3 mi (1.0 km) downstream from Pena Creek, and 3 mi (5 km) west of Geyserville.

DRAINAGE AREA.--162 mi^2 (420 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1970 to current year.
Water temperatures: March 1964 to current year.
Sediment records: March 1964 to current year.
Turbidity: Water years 1964 to current year (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 26.5°C Aug. 23; minimum, 3.5°C Jan. 3.
Sediment concentrations: Maximum daily, 6,650 mg/l Jan. 16; minimum daily, no flow for several days during October.
Sediment discharge: Maximum daily, 381,000 tons (346,000 tonnes) Jan. 16; minimum daily, 0 tons (0 tonnes) on several days during October.
Period of record:
Water temperatures: Maximum, 26.5°C Aug. 11, 1971, Aug. 23, 1974; minimum (1964-66, 1967 to current year), 3.5°C Jan. 3, 1974.
Sediment concentrations: Maximum daily, 15,000 mg/l (estimated) Dec. 22, 1964; minimum daily, no flow for many days in 1964, 1966, 1970-73.
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, 1968-73.

REMARKS.--No flow Oct. 1-6. No thermograph record Oct. 1 to Nov. 8, Aug. 15-28, recorder stopped; Mar. 29 to May 6, June 18, 19, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	FECAL COLIFORM (COL. PER 100 ML)
NOV.									
27...	1220	342	85	199	7.9	11.0	--	--	35
JAN.									
10...	1230	686	76	180	7.9	6.5	--	--	35
MAR.									
27...	1000	630	73	168	7.8	13.0	--	--	350
JUNE									
17...	1200	27	112	233	7.8	17.5	9.7	101	7
17...	1800	27	110	239	7.7	19.5	9.7	105	9
17...	1815	27	110	247	7.8	19.0	--	--	--
17...	2400	26	112	230	7.9	19.0	7.5	81	12
18...	0600	26	112	228	7.8	16.5	7.8	80	15
18...	1200	28	112	240	7.7	17.5	10.8	112	8
28...	1100	17	117	229	8.1	20.0	9.1	100	--
AUG.									
28...	1030	1.5	115	259	7.9	19.0	9.6	103	10

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)
NOV.												
27...	1220	342	18	30	20	9.5	8.8	.7	104	0	9.5	4.5
JAN.												
10...	1230	686	21	20	16	8.6	7.4	1.4	93	0	8.8	3.7
MAR.												
27...	1000	630	17	40	16	8.7	6.8	.7	89	0	9.5	3.2
JUNE												
17...	1815	27	12	30	25	12	11	1.0	134	0	13	4.1
AUG.												
28...	1030	1.5	21	70	24	13	9.6	.9	140	0	14	5.0

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	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)	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)
NOV.												
27...	.2	.41	.37	.08	.01	.20	.12	.28	.15	.13	.69	.22
JAN.												
10...	.2	.17	.32	.23	.31	.61	.15	.84	.38	.46	1.0	.06
MAR.												
27...	.2	.07	.06	.28	.06	.00	.02	.22	.14	.08	.29	.15
JUNE												
17...	.9	.05	.17	.05	.02	.23	.28	.28	.00	.30	.33	.01
AUG.												
28...	.1	.06	.05	.01	.01	.43	.16	.44	.27	.17	.50	.02

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)
NOV.											
27...	.04	124	.17	115	89	4	18	.4	11.0	2.1	--
JAN.											
10...	.00	115	.16	213	75	0	17	.4	6.5	1.9	--
MAR.											
27...	.02	107	.15	190	76	3	16	.3	13.0	2.3	--
JUNE											
17...	.01	146	.20	11.0	110	2	17	.5	19.0	3.4	--
AUG.											
28...	.02	157	.21	.66	110	0	15	.4	19.0	2.8	2.5

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	DIS-SOLVED BORON (B) (UG/L)	TOTAL 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)	TOTAL COPPER (CU) (UG/L)
NOV.									
27...	1220	--	--	160	--	--	--	--	--
JAN.									
10...	1230	--	--	60	--	--	--	--	--
MAR.									
27...	1000	--	--	80	--	--	--	--	--
MAY									
21-31	--	--	2	--	--	--	--	--	--
JUNE									
01-28	--	--	2	--	--	--	--	--	--
17...	1815	--	--	310	--	<10	--	350	--
AUG.									
28...	1030	1	--	200	<10	--	0	--	<10

DATE	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	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)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
NOV.								
27...	--	--	--	.0	.0	--	--	--
JAN.								
10...	--	--	--	.1	.0	--	--	--
MAR.								
27...	--	--	--	.0	.0	--	--	--
MAY								
21-31	--	--	--	--	--	.3	--	--
JUNE								
01-28	--	--	--	--	--	.3	--	--
17...	12	--	<10	1.1	.0	.3	--	25
AUG.								
28...	--	<100	--	.0	--	--	0	--

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	--	--	--	--	--	--	11.0	--	10.5	9.0	--	7.0	11.5	--	10.5	13.5	--	12.5
2	--	--	--	--	13.5	--	12.5	--	11.5	7.0	--	6.0	11.5	--	10.5	13.5	--	12.5
3	--	--	--	--	--	--	13.0	--	12.0	7.0	--	3.5	12.5	--	11.0	13.5	--	13.5
4	--	--	--	--	--	--	13.5	--	13.0	7.5	--	5.0	12.0	--	11.5	13.5	--	13.0
5	--	--	--	--	11.5	--	13.5	--	13.0	8.0	--	6.5	12.0	--	11.0	13.5	--	12.5
6	--	--	--	--	--	--	14.0	--	13.0	8.0	--	7.0	12.0	--	11.0	14.0	--	13.0
7	--	--	--	--	17.5	--	14.0	--	13.5	8.0	--	6.5	12.0	--	11.0	14.0	--	13.0
8	--	--	--	--	16.0	--	13.5	--	12.5	7.5	--	6.0	12.5	--	11.5	13.0	--	10.0
9	--	18.0	--	15.5	--	15.0	12.5	--	11.5	8.0	--	6.0	12.5	--	11.5	13.5	--	10.5
10	--	20.5	--	15.5	--	15.5	11.5	--	10.5	7.0	--	6.0	12.5	--	11.5	13.0	--	11.5
11	--	--	--	15.5	--	15.5	10.5	--	10.0	7.5	--	6.5	12.5	--	12.5	12.5	--	11.5
12	--	14.5	--	15.5	--	15.5	11.0	--	10.0	7.5	--	6.5	12.5	--	12.0	13.0	--	11.5
13	--	--	--	15.5	--	15.5	11.0	--	10.0	9.5	--	8.5	12.5	--	12.0	13.5	--	11.0
14	--	--	--	15.5	--	15.5	11.0	--	10.0	9.5	--	9.0	12.5	--	11.5	14.0	--	12.0
15	--	13.0	--	15.5	--	14.5	11.0	--	9.5	9.5	--	9.5	12.5	--	11.5	15.5	--	12.0
16	--	--	--	14.5	--	14.0	11.0	--	10.0	10.5	--	10.0	12.5	--	11.5	16.0	--	13.5
17	--	20.5	--	15.0	--	14.5	11.5	--	10.5	10.5	--	10.0	13.0	--	12.0	16.5	--	13.0
18	--	--	--	15.0	--	14.5	10.5	--	8.5	11.0	--	10.5	13.0	--	13.0	16.5	--	12.5
19	--	13.5	--	15.5	--	14.5	10.0	--	8.5	11.5	--	11.0	13.5	--	13.0	16.5	--	11.5
20	--	--	--	15.0	--	14.5	10.5	--	9.5	12.5	--	11.5	13.0	--	12.0	15.5	--	12.0
21	--	--	--	15.5	--	14.5	10.5	--	9.5	12.5	--	11.5	13.0	--	12.5	14.0	--	12.5
22	--	16.5	--	14.5	--	14.5	11.5	--	10.0	12.5	--	11.0	13.0	--	12.5	14.5	--	12.5
23	--	--	--	14.5	--	11.5	11.5	--	10.0	12.0	--	11.0	13.5	--	12.0	15.5	--	12.0
24	--	14.5	--	11.5	--	10.0	12.0	--	10.5	12.0	--	11.0	13.0	--	12.0	13.0	--	12.0
25	--	--	--	11.0	--	10.0	12.5	--	11.5	12.5	--	11.0	13.0	--	12.0	13.0	--	12.0
26	--	13.0	--	10.5	--	9.5	12.5	--	10.5	12.0	--	11.5	13.0	--	12.5	14.0	--	12.0
27	--	--	--	11.5	--	10.5	11.5	--	10.5	12.5	--	12.0	13.5	--	12.5	13.0	--	12.0
28	--	17.0	--	13.0	--	11.5	12.0	--	11.0	12.0	--	11.0	13.0	--	12.5	12.0	--	11.0
29	--	--	--	12.5	--	11.0	12.0	--	10.5	12.0	--	11.5	--	--	--	--	13.0	--
30	--	16.5	--	12.5	--	11.0	10.5	--	9.0	11.5	--	11.0	--	--	--	--	11.5	--
31	--	--	--	--	--	--	10.0	--	9.0	12.0	--	11.0	--	--	--	--	12.0	--
MONTH	--	--	--	--	--	--	14.0	--	8.5	12.5	--	3.5	13.5	--	10.5	16.5	--	10.0

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	--	--	20.0	--	19.5	--	16.5	23.0	--	20.5	22.5	--	19.0	19.0	--	17.0
2	--	10.5	--	--	12.0	--	19.5	--	17.0	23.0	--	20.0	22.5	--	20.0	19.5	--	17.5
3	--	9.0	--	--	10.5	--	19.5	--	18.0	23.0	--	20.5	22.5	--	20.0	19.5	--	17.5
4	--	15.0	--	--	12.0	--	19.5	--	17.0	23.0	--	20.5	22.0	--	19.5	20.0	--	17.5
5	--	10.5	--	--	21.0	--	19.5	--	17.5	23.0	--	20.5	21.5	--	19.0	20.5	--	17.5
6	--	13.0	--	--	21.5	--	20.0	--	17.0	22.5	--	19.5	22.0	--	19.5	20.5	--	17.5
7	--	9.5	--	23.0	--	19.0	19.5	--	16.0	22.5	--	20.0	22.0	--	19.5	20.5	--	18.0
8	--	10.0	--	23.0	--	19.5	20.0	--	17.0	21.5	--	20.0	22.0	--	19.5	20.0	--	17.5
9	--	9.0	--	22.0	--	19.0	20.0	--	17.5	22.0	--	20.0	21.5	--	19.5	21.0	--	18.0
10	--	16.0	--	21.5	--	18.0	20.0	--	18.0	22.0	--	20.0	21.5	--	19.5	21.0	--	18.5
11	--	10.5	--	21.5	--	17.5	19.5	--	17.5	22.0	--	19.5	21.5	--	19.5	21.0	--	19.0
12	--	22.0	--	20.5	--	18.0	19.5	--	17.5	22.0	--	20.0	21.5	--	18.5	20.5	--	18.5
13	--	13.0	--	20.5	--	17.5	19.0	--	17.5	22.5	--	19.5	21.5	--	18.5	20.5	--	18.5
14	--	17.0	--	20.5	--	17.0	19.0	--	17.5	23.0	--	19.5	21.0	--	19.0	20.0	--	18.0
15	--	23.0	--	20.0	--	17.5	19.5	--	17.5	22.5	--	20.0	--	15.0	--	20.0	--	17.5
16	--	9.5	--	19.0	--	16.5	19.5	--	17.5	22.5	--	19.5	--	--	--	20.0	--	17.5
17	--	10.0	--	18.5	--	16.0	19.5	--	17.5	23.0	--	19.5	--	--	--	20.5	--	17.5
18	--	11.0	--	18.0	--	15.5	--	--	--	23.5	--	20.5	--	--	--	20.5	--	18.0
19	--	17.0	--	19.0	--	15.5	--	--	--	23.5	--	20.5	--	--	--	20.5	--	18.0
20	--	15.0	--	19.5	--	16.0	23.5	--	18.5	23.0	--	20.5	--	17.5	--	20.5	--	18.0
21	--	20.0	--	20.0	--	16.0	23.5	--	21.0	23.0	--	20.0	--	--	--	20.5	--	18.0
22	--	18.0	--	20.0	--	16.5	24.0	--	21.0	22.5	--	18.5	--	--	--	20.0	--	18.0
23	--	10.5	--	20.0	--	17.0	24.0	--	21.0	22.5	--	19.0	--	26.5	--	20.0	--	18.0
24	--	9.5	--	20.0	--	16.5	22.5	--	20.0	23.0	--	19.0	--	--	--	20.0	--	17.5
25	--	7.0	--	20.5	--	17.0	22.5	--	19.0	23.0	--	21.0	--	--	--	20.0	--	17.5
26	--	12.0	--	21.0	--	17.5	21.5	--	19.0	23.0	--	21.5	--	--	--	20.0	--	18.5
27	--	13.0	--	20.0	--	18.0	22.5	--	19.5	23.0	--	21.0	--	19.5	--	20.0	--	18.0
28	--	15.5	--	19.5	--	17.5	23.0	--	20.0	23.0	--	21.5	--	19.0	--	20.0	--	18.0
29	--	15.0	--	19.5	--	16.5	23.5	--	21.5	22.5	--	20.0	19.0	--	17.0	20.0	--	18.0
30	--	14.5	--	20.0	--	16.5	23.0	--	21.0	23.0	--	20.0	19.0	--	17.5	20.0	--	17.0
31	--	--	--	19.5	--	16.5	--	--	--	22.5	--	20.0	19.0	--	17.0	--	--	--
MONTH	--	--	--	23.0	--	15.5	24.0	--	16.0	23.5	--	18.5	--	--	--	21.0	--	17.0

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	9.6	13	.34	4880	3130	49800
2	0	0	0	9.0	7	.17	2220	418	2510
3	0	0	0	8.6	5	.12	1450	273	1070
4	0	0	0	8.4	3	.07	1140	240	739
5	0	0	0	25	35	2.4	855	189	436
6	0	0	0	100	420	113	659	147	262
7	.10	1	0	290	600	470	555	116	174
8	6.8	7	.13	900	120	292	478	90	116
9	6.2	6	.10	1930	2050	21200	426	77	89
10	5.8	6	.09	3570	3540	36800	375	77	78
11	5.2	6	.08	6480	5430	102000.0	490	203	269
12	4.8	7	.09	4210	1890	25600	415	121	136
13	4.6	7	.09	2590	948	7250	891	606	1530
14	4.5	7	.09	2180	330	1940	780	511	1080
15	4.3	7	.08	1860	194	974	615	437	726
16	4.2	6	.07	5800	1510	30600	529	389	556
17	4.0	6	.06	3680	1080	12700	705	452	860
18	3.9	5	.05	2920	762	6010	592	299	478
19	3.8	5	.05	1680	342	1550	499	223	300
20	3.8	5	.05	1280	312	1080	442	164	196
21	4.5	8	.10	966	305	796	2280	1490	10300
22	45	180	22	891	255	613	2320	520	3260
23	250	400	270	753	144	293	1400	275	1040
24	80	45	9.7	573	80	124	1090	214	630
25	35	36	3.4	458	52	64	891	163	392
26	21	30	1.7	386	34	35	873	226	638
27	16	28	1.2	325	26	23	1360	395	1450
28	13	26	.91	282	28	21	1230	207	687
29	12	25	.81	288	51	40	1110	159	477
30	11	23	.68	4120	3940	73700	959	142	368
31	10	19	.51	---	---	---	814	128	281
MONTH	559.50	---	312.04	48572.6	---	324291.1	33323	---	80928

	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	684	110	203	590	84	134	5600	2910	47300
2	537	91	132	537	60	87	3920	1470	15600
3	664	157	293	482	30	39	2410	716	4660
4	909	75	184	434	12	14	1580	444	1890
5	873	63	148	404	17	19	1230	241	800
6	797	59	127	375	14	14	879	148	351
7	775	52	109	355	11	11	1000	255	744
8	764	44	91	335	11	9.9	726	132	259
9	747	43	87	316	8	6.8	578	78	122
10	679	35	64	303	12	9.8	529	100	143
11	664	35	63	291	10	7.9	2530	434	3210
12	1220	232	764	331	18	16	2280	428	2630
13	1520	327	1340	316	9	7.7	1650	310	1380
14	3760	2430	43400	276	12	8.9	1440	208	809
15	8350	4030	99900	259	6	4.2	978	150	396
16	19400	6650	381000	303	35	29	820	122	270
17	5400	2850	41600	271	27	20	695	90	169
18	3750	2600	26300	297	20	23	582	68	107
19	2800	1340	10100	1540	224	986	494	50	67
20	1800	454	2210	742	102	204	415	46	52
21	1300	299	1050	721	112	218	358	41	40
22	980	259	685	625	115	194	322	35	30
23	820	190	421	524	68	96	294	30	24
24	700	115	217	482	45	59	271	24	18
25	580	85	133	419	37	42	306	40	33
26	510	49	67	400	33	36	303	64	65
27	465	35	44	375	21	21	1240	603	3040
28	430	32	37	4960	4700	109000	1560	418	2200
29	390	22	23	---	---	---	6510	4300	116000
30	360	18	17	---	---	---	10700	3300	118000
31	650	65	114	---	---	---	3510	1090	10300
MONTH	63278	---	610923	17263	---	111317.2	55710	---	330709

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	5380	2280	34000	150	8	3.2	53	5	.72
2	3210	880	7630	140	8	3.0	52	6	.84
3	2100	530	3010	135	6	2.2	50	4	.54
4	1480	284	1130	125	7	2.4	49	5	.66
5	1200	163	528	120	8	2.6	48	6	.78
6	966	144	376	115	6	1.9	46	10	1.2
7	814	117	257	109	7	2.1	44	11	1.3
8	689	86	160	104	8	2.2	42	11	1.2
9	710	78	150	97	6	1.6	40	11	1.2
10	578	58	91	90	5	1.2	39	15	1.6
11	503	68	92	82	6	1.3	37	14	1.4
12	454	62	76	90	5	1.2	35	13	1.2
13	420	56	64	88	4	.95	33	11	.98
14	395	37	39	84	4	.91	32	8	.69
15	370	25	25	84	4	.91	30	4	.32
16	345	20	19	81	4	.87	28	10	.76
17	325	20	18	78	4	.84	27	10	.73
18	305	18	15	81	4	.87	27	10	.73
19	285	18	14	81	4	.87	27	8	.58
20	270	16	12	76	3	.62	27	11	.80
21	255	15	10	76	4	.82	26	14	.98
22	240	14	9.1	72	5	.97	24	16	1.0
23	225	13	7.9	69	3	.56	23	15	.93
24	215	12	7.0	67	3	.54	22	15	.89
25	200	12	6.5	63	5	.85	20	14	.76
26	190	11	5.6	62	4	.67	20	20	1.1
27	180	7	3.4	61	5	.82	18	20	.97
28	170	6	2.8	56	5	.76	16	10	.43
29	165	9	4.0	55	4	.59	14	12	.45
30	155	7	2.9	55	4	.59	13	12	.42
31	---	---	---	54	4	.58	---	---	---
MONTH	22794	---	47765.2	2700	---	39.49	962	---	26.16

	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	13	7	.25	4.1	8	.09	2.1	7	.04
2	11	8	.24	3.8	8	.08	2.1	8	.05
3	10	10	.27	3.7	7	.07	2.5	8	.05
4	9.5	11	.28	3.6	7	.07	2.1	9	.05
5	9.5	12	.31	3.8	6	.06	2.5	9	.06
6	7.8	13	.27	3.7	6	.06	2.6	9	.06
7	8.6	13	.30	3.4	6	.06	2.5	9	.06
8	26	20	1.4	3.2	7	.06	1.8	10	.05
9	40	15	1.6	2.6	7	.05	1.7	11	.05
10	28	13	.98	2.5	7	.05	1.6	9	.04
11	24	12	.78	2.5	6	.04	1.4	7	.03
12	22	10	.59	2.1	6	.03	1.6	7	.03
13	20	8	.43	2.5	7	.05	1.6	7	.03
14	18	6	.29	2.6	8	.06	1.3	8	.03
15	15	4	.16	2.8	9	.07	1.3	8	.03
16	13	4	.14	3.1	9	.08	1.3	8	.03
17	12	5	.16	2.1	10	.06	1.1	9	.03
18	11	6	.18	1.6	10	.04	1.2	7	.02
19	11	6	.18	1.6	11	.05	1.2	5	.02
20	11	6	.18	1.3	12	.04	1.2	3	.01
21	10	6	.16	1.4	10	.04	1.1	3	.01
22	8.6	6	.14	1.4	9	.03	1.1	2	.01
23	7.0	6	.11	1.3	9	.03	1.2	2	.01
24	6.3	6	.10	1.2	8	.03	1.0	5	.01
25	6.1	6	.10	1.1	8	.02	1.2	9	.03
26	5.5	7	.10	1.1	7	.02	1.2	9	.03
27	5.0	8	.11	1.2	6	.02	1.3	9	.03
28	5.0	8	.11	1.6	4	.02	1.1	9	.03
29	5.0	8	.11	1.6	5	.02	.80	9	.02
30	5.0	8	.11	1.8	6	.03	1.1	12	.04
31	4.3	8	.09	2.1	7	.04	---	---	---
MONTH	388.2	---	10.23	72.4	---	1.47	45.80	---	.99
YEAR	245668.5		1506324						

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	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
OCT.											
22...	1335	16.5	45	--	440	53	61	79	91	99	100
NOV.											
07...	1610	17.5	290	--	709	555	--	--	--	--	--
08...	1450	16.0	--	288	64	50	41	54	70	83	93
09...	1605	15.0	--	2990	4140	33400	18	22	29	40	54
12...	1335	--	--	3560	1390	13400	--	--	--	--	--
27...	1255	11.0	--	325	26	23	--	--	--	--	--
DEC.											
04...	0820	--	--	1150	242	752	--	--	--	--	--
21...	1550	10.5	--	2620	2080	14700	20	27	34	45	53
JAN.											
14...	1455	--	--	4620	2780	34700	22	31	40	52	64
16...	1710	--	--	22600	6210	379000	--	--	--	--	--
17...	1635	--	--	4850	2200	28800	17	22	30	38	47
18...	1635	--	--	4660	2770	34900	--	--	--	--	--
FEB.											
28...	1515	--	--	9420	7660	195000	12	17	24	31	41
MAR.											
02...	0935	--	--	4320	1600	18700	13	18	23	30	38
06...	1650	13.0	--	826	122	272	--	--	--	--	--
14...	1115	13.0	--	1480	209	836	--	--	--	--	--
19...	0825	--	--	458	49	61	--	--	--	--	--
27...	1000	12.0	--	664	181	325	46	57	64	70	75
30...	0920	11.5	--	10600	3210	91900	--	--	--	--	--
APR.											
01...	1055	13.0	--	6020	1890	30700	18	27	36	46	56
04...	1805	15.0	--	1360	223	820	--	--	--	--	--
06...	1105	13.0	--	966	149	389	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT.										
22...	--	--	--	--	--	--	--	--	--	--
NOV.										
07...	96	--	99	--	100	--	--	--	--	--
08...	--	97	--	98	--	99	--	99	--	100
09...	--	70	--	88	--	98	--	100	--	--
12...	76	--	96	--	99	--	100	--	--	--
27...	--	66	--	84	--	100	--	--	--	--
DEC.										
04...	70	--	90	--	100	--	--	--	--	--
21...	63	--	76	--	93	--	99	--	100	--
JAN.										
14...	75	--	89	--	100	--	--	--	--	--
16...	80	--	94	--	99	--	100	--	--	--
17...	--	57	--	77	--	94	--	99	--	100
18...	62	--	79	--	95	--	99	--	100	--
FEB.										
28...	52	--	72	--	95	--	99	--	100	--
MAR.										
02...	--	48	--	68	--	96	--	100	--	--
06...	67	--	78	--	97	--	100	--	--	--
14...	--	77	--	89	--	99	--	100	--	--
19...	--	75	--	84	--	95	--	100	--	--
27...	--	81	--	86	--	95	--	100	--	--
30...	76	--	98	--	99	--	100	--	--	--
APR.										
01...	66	--	83	--	99	--	100	--	--	--
04...	--	72	--	84	--	98	--	100	--	--
06...	--	69	--	82	--	98	--	100	--	--

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.								
28...	1030	19.0	1	1.6	43	89	96	98
28...	1035	19.0	1	1.6	--	--	2	5
28...	1040	19.0	1	1.6	--	1	3	11
28...	1045	19.0	1	1.6	--	--	1	1
28...	1050	19.0	1	1.6	--	1	5	7
28...	1055	19.0	1	1.6	2	7	22	31

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.							
28...	99	100	--	--	--	--	--
28...	9	16	26	42	55	72	100
28...	19	26	32	40	51	59	100
28...	2	3	7	12	31	56	100
28...	8	13	22	33	53	87	100
28...	32	35	46	63	85	100	--

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
OCT.			
09...	--	6	3
10...	--	6	3
12...	--	7	3
15...	--	7	3
19...	--	5	2
22...	--	440	180
24...	--	48	40
26...	--	39	30
29...	--	29	15
31...	--	18	4
NOV.			
02...	--	7	3
05...	--	10	4
07...	--	709	330
08...	--	64	40
09...	--	4140	500
12...	1030	1180	200
12...	1335	1390	300
16...	--	396	130
19...	--	172	100
21...	--	306	130
23...	--	150	30
27...	--	26	10
DEC.			
04...	--	242	85
14...	--	540	200
17...	--	597	100
21...	--	2080	230
28...	--	198	70
JAN.			
10...	--	36	15
15...	--	4180	950
16...	--	6210	1400
17...	1355	3280	550
17...	1600	2200	300
17...	1635	2200	380
17...	1650	2160	350
18...	1050	3210	600
18...	1610	3140	1300
18...	1635	2770	450
JAN.			
18...	1655	2830	600
19...	--	1260	280
FEB.			
03...	--	24	6
04...	--	16	7
05...	--	22	8
06...	--	15	6
07...	--	11	6
08...	--	12	5
09...	--	7	4
10...	--	12	3
11...	--	10	4
13...	--	9	4
14...	--	14	3
15...	--	6	3
16...	--	50	30
18...	--	6	3
19...	--	162	50
22...	--	120	25
23...	--	63	15
26...	--	34	10
27...	--	22	7
28...	--	7660	1200
MAR.			
01...	--	1750	330
02...	--	1600	300
03...	--	776	330
04...	--	459	130
06...	1130	149	65
06...	1650	122	40
06...	1715	154	40
07...	--	392	130
08...	--	122	35
09...	--	74	25
10...	--	110	30
11...	--	352	130
12...	--	414	85
13...	--	329	100
14...	--	209	70
16...	--	127	40

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
MAR.			
18...	--	70	20
19...	--	49	20
20...	--	46	15
22...	--	34	7
24...	--	24	5
25...	--	56	15
26...	--	21	8
27...	0855	221	85
27...	1000	181	70
27...	1050	146	65
27...	1155	130	50
28...	--	494	150
29...	--	3760	900
30...	--	3210	800
31...	--	969	250
APR.			
01...	--	1890	550
04...	--	223	70
06...	--	149	45
08...	--	91	25
10...	--	50	15
11...	--	68	15
12...	--	70	25
14...	--	37	6
15...	--	22	6
16...	--	20	9
24...	--	12	2
26...	--	13	2
27...	--	7	2
28...	--	6	1
29...	--	11	2
30...	--	5	1
MAY			
01...	--	8	2
02...	--	8	1
03...	--	6	2
04...	--	7	1
05...	--	8	2
06...	0745	6	2
06...	1445	6	1
07...	--	7	1
08...	--	8	2
09...	--	6	2
10...	--	5	2
11...	--	6	1
12...	--	5	1
13...	--	4	1
14...	--	4	1
15...	--	4	1
16...	--	6	1
17...	--	6	1
18...	--	4	1
19...	--	4	1
20...	--	3	2
21...	--	5	2
MAY			
22...	--	5	2
23...	--	3	1
24...	--	3	1
25...	--	5	1
26...	--	4	1
27...	--	5	1
28...	--	6	1
29...	--	4	1
30...	--	4	1
31...	--	4	1
JUNE			
01...	--	5	1
02...	--	8	2
03...	--	4	1
07...	--	11	4
09...	--	12	2
13...	--	13	2
14...	--	8	2
16...	--	12	2
17...	--	4	1
18...	--	13	1
25...	--	14	4
27...	--	21	5
28...	0805	13	2
28...	1100	5	2
29...	--	12	4
30...	--	12	3
JULY			
01...	--	7	2
09...	--	18	4
11...	--	15	3
18...	--	10	1
24...	--	6	2
27...	--	12	1
31...	--	8	2
AUG.			
02...	--	8	1
06...	--	6	2
09...	--	7	2
15...	--	9	2
20...	--	12	4
28...	--	4	1
30...	--	7	2
SEP.			
04...	--	9	2
07...	--	9	2
09...	--	13	3
11...	--	7	2
17...	--	11	2
20...	--	3	1
23...	--	2	1
25...	--	13	2
30...	--	19	3

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.

LOCATION.--Lat 38°30'03", long 122°55'09", in NW¼NE¼ sec.35, T.8 N., R.10 W., Sonoma County, at gaging station 0.6 mi (1.0 km) downstream from Hobson Creek, and 3.4 mi (5.5 km) east of Guerneville.

DRAINAGE AREA.--1,340 mi^2 (3,471 km^2).

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1965, water years 1966-67, 1969 to current year (partial-record station). Published as "at Guerneville" in 1961-65.
Specific conductance: October 1973 to September 1974.
Water temperatures: January 1964 to current year.
Sediment records: Water years 1966-67 (partial-record station), April 1967 to current year.
Turbidity: Water years 1967 to current year (partial-record station).

EXTREMES.--Current year:
Specific conductance: Maximum daily, 400 micromhos July 8, 9; minimum daily, 57 micromhos Nov. 4.
Water temperatures: Maximum, 29.0°C July 23, 24.
Sediment concentrations: Maximum daily, 2,350 mg/l Jan. 16; minimum daily, 6 mg/l Aug. 14.
Sediment discharge: Maximum daily, 316,000 tons (287,000 tonnes) Jan. 16; minimum daily, 3.6 tons (3.3 tonnes) Aug. 14.
Period of record:
Specific conductance: Maximum daily, 400 micromhos July 8, 9, 1974; minimum daily, 57 micromhos Nov 4, 1973.
Water temperatures: Maximum, 29.5°C June 26, 1973; minimum (1965-71), 4.5°C Dec. 15, 1967, Jan. 12, 1968.
Sediment concentrations (1969 to current year): Maximum daily, 2,350 mg/l Jan. 16, 1974; minimum daily, 3 mg/l on several days in 1972 and 1973.
Sediment discharge (1969 to current year): Maximum daily, 316,000 tons (287,000 tonnes) Jan. 16, 1974; minimum daily, 1.3 tons (1.2 tonnes) Sept. 23, 1972.

REMARKS.--Selected chemical-quality records and maximum, minimum, and mean specific conductance data furnished by California Department of Water Resources. No thermograph record Oct. 2 to Nov. 7, recorder malfunction; Dec. 26 to Jan. 18, probe inoperative; Jan. 19 to Feb. 19, Feb. 21 to Mar. 27, Mar. 31 to Apr. 24, May 12-15, 25-30, recorder stopped. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALKA-LINITY AS CACO3 (MG/L)	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	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV.												
09...	1200	3730	2040	73	218	7.4	14.5	50	8.8	--	--	--
DEC.												
12...	1540	3050	3010	--	240	7.3	11.0	--	10.3	94	--	--
JAN.												
22...	1000	11800	11700	74	172	7.2	9.0	150	10.4	90	--	--
22...	1445	11800	11100	78	184	7.7	9.5	100	--	--	140	120
FEB.												
19...	1030	8120	8340	61	145	7.3	9.5	310	10.7	94	1600	--
20...	1330	6540	5790	--	135	--	9.0	--	--	--	--	1700
MAR.												
19...	0930	2680	2750	--	240	7.3	14.0	--	9.8	95	--	--
28...	1215	14700	15300	--	--	7.7	12.0	200	--	--	2200	2400
APR.												
02...	1145	31300	30900	55	130	7.2	12.0	260	10.1	94	--	--
25...	1130	1480	1480	113	259	7.7	13.0	20	--	--	70	33
MAY												
10...	1045	1080	1080	--	254	7.5	17.0	--	9.6	99	--	--
30...	1315	458	467	--	--	8.2	20.5	10	--	--	15	11
JUNE												
05...	1300	393	396	124	--	7.8	22.0	8	8.2	--	--	--
05...	1400	393	396	124	298	7.8	22.0	8	8.2	93	--	--
10...	1350	361	356	--	--	--	24.0	9	--	--	89	87
JULY												
01...	0915	196	214	134	--	7.6	22.0	8	--	--	22	130
08...	1330	199	217	--	278	8.3	26.5	--	10.7	134	--	--
AUG.												
05...	1140	201	201	--	--	--	24.5	4	--	--	26	53
08...	1320	206	206	--	260	8.2	25.0	--	9.4	113	--	--
SEP.												
04...	1330	268	241	108	245	8.1	24.0	1	9.6	114	--	--
12...	1615	323	315	--	256	--	24.5	2	--	--	34	80

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

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)
NOV.												
09...	1200	3730	2040	--	--	--	--	--	--	16	--	12
JAN.												
22...	1000	11800	11700	--	--	--	--	--	--	16	8.0	6.6
22...	1445	11800	11100	17	9200	80	340	270	70	17	9.4	7.2
FEB.												
19...	1030	8120	8340	--	--	--	--	--	--	13	--	7.6
20...	1330	6540	5790	--	--	--	--	--	--	--	--	--
MAR.												
28...	1215	14700	15200	--	--	--	--	--	--	--	--	--
APR.												
02...	1145	31300	30900	--	--	--	--	--	--	11	--	5.3
25...	1130	1480	1480	17	2700	140	70	50	20	24	14	9.5
MAY												
30...	1315	458	467	--	--	--	--	--	--	--	--	--
JUNE												
05...	1300	393	396	--	--	--	--	--	--	28	--	12
05...	1400	393	396	--	--	--	--	--	--	28	--	12
10...	1350	361	356	--	--	--	--	--	--	--	--	--
JULY												
01...	0915	196	214	15	630	20	60	60	0	28	16	12
AUG.												
05...	1140	201	201	--	--	--	--	--	--	--	--	--
SEP.												
04...	1330	268	241	--	--	--	--	--	--	23	12	9.5
12...	1615	323	315	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	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)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
NOV.												
09...	--	89	0	--	11	--	--	--	--	--	--	123
JAN.												
22...	1.6	90	0	8.6	2.0	--	.54	--	--	--	--	104
22...	1.3	95	0	8.5	3.8	.1	--	.43	.46	.89	.34	127
FEB.												
19...	--	74	0	--	3.6	--	--	--	--	--	--	101
20...	--	--	--	--	--	--	--	.26	1.3	1.6	.45	--
MAR.												
28...	--	--	--	--	--	--	--	.18	1.1	1.3	.59	--
APR.												
02...	--	67	0	--	3.4	--	--	--	--	--	--	63
25...	1.3	138	0	13	5.2	.1	--	.58	.19	.77	.15	154
MAY												
30...	--	--	--	--	--	--	--	.50	.55	1.1	.20	--
JUNE												
05...	--	151	0	--	7.4	--	--	--	--	--	--	178
05...	--	151	0	--	7.4	--	--	--	--	--	--	178
10...	--	--	--	--	--	--	--	.31	.48	.79	.20	--
JULY												
01...	1.7	163	0	15	8.5	.3	--	.41	.62	1.0	.32	178
AUG.												
05...	--	--	--	--	--	--	--	.14	.54	.68	.28	--
SEP.												
04...	--	132	0	--	6.7	--	--	--	--	--	--	140
12...	--	--	--	--	--	--	--	.08	.40	.48	.16	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
NOV.											
09...	--	.17	1240	86	13	--	--	14.5	5.7	--	200
JAN.											
22...	--	.14	3310	73	0	16	.3	9.0	9.1	--	100
22...	111	.17	3290	81	3	16	.3	9.5	3.0	4.8	--
FEB.											
19...	--	.14	2210	66	5	--	--	9.5	5.9	--	100
20...	--	--	--	--	--	--	--	9.5	--	--	--
MAR.											
28...	--	--	--	--	--	--	--	12.0	--	--	--
APR.											
02...	--	.09	5320	64	9	--	--	12.0	6.8	--	0
25...	152	.21	574	120	4	15	.4	13.0	4.4	2.8	--
MAY											
30...	--	--	--	--	--	--	--	20.5	--	--	--
JUNE											
05...	--	.24	189	130	6	--	--	22.0	3.8	--	--
05...	--	.24	192	130	6	--	--	22.0	3.8	--	--
10...	--	--	--	--	--	--	--	24.0	--	--	--
JULY											
01...	177	.24	95.2	140	2	16	.4	22.0	6.6	2.4	--
AUG.											
05...	--	--	--	--	--	--	--	24.5	--	--	--
SEP.											
04...	--	.19	101	107	0	--	.4	24.0	1.7	--	--
12...	--	--	--	--	--	--	--	24.5	--	--	--

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)
JAN.										
22...	1445	6	0	8	<10	10	0	20	20	0
APR.										
25...	1130	4	2	2	<10	<10	0	30	20	10
JULY										
01...	0915	0	0	0	<10	<9	1	0	0	0

DATE	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 LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)
JAN.									
22...	<50	50	0	30	25	5	<100	95	5
APR.									
25...	<50	<50	0	10	4	6	<100	<100	0
JULY									
01...	<50	<50	0	<10	<8	2	<100	<100	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)
JAN. 22...	.1	.0	.1	3	0	3	110	90	20
APR. 25...	.0	.0	.0	8	7	1	150	150	0
JULY 01...	.5	.5	.0	0	0	0	30	10	20

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	300	290	295	305	295	300	122	98	106	215	160	184
2	290	285	290	310	305	310	165	122	150	184	166	176
3	290	280	285	310	310	310	190	165	180	202	184	194
4	285	275	280	315	57	180	196	185	188	206	202	205
5	285	240	265	280	95	225	194	186	190	202	184	194
6	300	245	265	215	183	205	200	194	196	206	202	205
7	290	255	270	240	171	215	240	200	214	220	206	214
8	285	260	275	220	169	190	255	240	250	220	220	220
9	270	265	265	---	---	---	260	255	255	225	220	225
10	270	265	270	---	---	---	265	260	260	230	225	230
11	265	265	265	---	---	---	265	235	255	235	225	230
12	265	260	265	148	108	128	250	235	245	225	184	206
13	265	260	260	160	128	142	245	180	206	184	168	175
14	260	260	260	166	138	145	210	180	196	174	98	130
15	260	260	260	176	110	158	220	210	215	124	98	110
16	260	260	260	136	108	118	230	220	225	---	---	---
17	260	250	255	144	130	136	230	212	220	---	---	---
18	270	250	265	160	132	148	220	192	202	---	---	---
19	265	260	260	188	160	174	194	192	193	---	---	---
20	260	255	260	198	188	194	195	194	194	---	---	---
21	260	225	255	206	198	202	195	123	148	---	---	---
22	260	140	215	220	206	215	167	123	147	---	---	---
23	240	225	230	225	215	220	184	165	176	---	---	---
24	260	240	250	235	225	230	196	184	190	---	---	---
25	275	260	265	240	235	235	206	196	202	---	---	---
26	280	275	275	245	240	245	210	170	202	---	---	---
27	275	275	275	255	245	250	172	158	164	---	---	---
28	275	270	270	260	255	255	174	163	168	---	---	---
29	275	270	270	260	260	260	180	170	176	---	---	---
30	280	270	275	260	102	205	188	165	177	---	---	---
31	295	280	290	---	---	---	198	188	194	---	---	---
MONTH	300	140	266	315	57	207	265	98	196	---	---	---

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	108	90	100	137	102	117	265	260	265
2	---	---	---	133	107	115	140	105	125	265	265	265
3	---	---	---	153	133	143	160	140	150	265	265	265
4	---	---	---	160	153	156	175	160	168	265	260	265
5	---	---	---	167	160	163	180	175	178	260	250	255
6	---	---	---	170	167	168	195	180	185	255	250	250
7	---	---	---	188	170	180	190	185	185	255	250	250
8	---	---	---	208	187	198	230	190	210	255	250	255
9	---	---	---	220	205	215	235	225	230	255	255	255
10	---	---	---	225	220	222	235	230	230	255	252	254
11	---	---	---	222	117	160	245	235	240	258	252	255
12	---	---	---	150	117	135	250	245	250	275	258	266
13	---	---	---	175	150	165	250	250	250	300	275	290
14	---	---	---	190	175	185	250	230	235	310	300	306
15	---	---	---	205	190	195	230	230	230	320	310	315
16	---	---	---	215	205	210	240	230	235	320	316	318
17	---	---	---	225	215	220	245	240	240	322	318	320
18	---	---	---	230	225	230	245	245	245	320	315	319
19	---	---	---	240	230	235	250	245	250	315	294	306
20	170	116	150	250	240	245	255	250	250	294	288	290
21	185	170	180	255	250	250	255	255	255	290	285	288
22	195	185	190	255	255	255	260	255	255	288	282	285
23	210	195	205	260	255	260	260	260	260	308	277	290
24	220	210	215	265	260	260	260	260	260	279	277	278
25	230	220	225	265	250	260	260	255	260	279	276	276
26	240	230	235	265	250	255	260	255	255	276	275	276
27	240	240	240	255	140	205	255	255	255	278	276	277
28	240	90	170	140	120	130	260	255	260	278	276	277
29	---	---	---	148	85	125	260	260	260	280	274	278
30	---	---	---	95	76	85	260	260	260	285	280	282
31	---	---	---	137	95	115	---	---	---	292	285	288
MONTH	---	---	---	265	76	188	260	102	226	322	250	279

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	300	292	294	313	300	308	295	285	290	260	252	256
2	300	298	299	306	292	300	294	280	288	260	250	255
3	300	298	300	305	292	300	290	275	282	260	250	255
4	301	300	300	310	280	292	290	280	285	258	240	250
5	300	295	298	282	273	278	285	275	280	269	240	254
6	298	290	294	280	270	276	280	270	275	265	245	254
7	292	284	289	288	280	284	278	268	272	245	233	240
8	288	284	286	400	260	305	275	260	268	238	232	235
9	287	282	285	400	268	302	264	256	260	245	232	235
10	284	280	282	280	276	278	268	260	264	252	245	248
11	320	280	295	296	280	288	268	260	264	255	249	252
12	310	283	292	304	296	300	270	260	266	258	243	250
13	288	280	282	308	301	304	266	260	264	265	256	260
14	285	280	282	308	300	305	268	255	262	278	265	272
15	290	281	286	306	298	300	261	253	256	278	254	265
16	291	286	289	304	288	290	262	258	260	260	242	252
17	292	290	290	295	283	290	330	262	290	242	228	232
18	295	290	293	295	280	286	268	252	260	252	228	236
19	295	289	291	288	275	282	261	255	258	255	250	252
20	294	286	290	288	276	281	261	251	256	255	250	252
21	295	286	290	290	278	285	260	250	256	255	250	252
22	294	287	290	295	280	288	259	248	254	255	248	252
23	300	290	296	295	285	290	258	248	252	252	248	250
24	304	295	300	295	280	288	255	248	250	250	246	248
25	310	299	302	290	281	287	250	238	242	250	242	246
26	309	295	302	294	280	288	255	248	251	250	245	248
27	310	298	302	290	280	286	256	242	249	250	246	248
28	312	304	310	292	280	286	254	246	250	250	248	250
29	312	300	308	295	285	290	252	247	250	250	248	250
30	214	302	308	298	285	292	252	250	250	250	245	248
31	---	---	---	295	285	290	258	252	255	---	---	---
MONTH	320	280	294	400	260	291	330	238	263	278	228	250

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

TEMPERATURE (DEG C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	--	19.0	--	--	--	11.5	--	11.0	--	8.5	--	--	11.0	--	--	10.0	--
2	--	--	--	--	--	--	11.0	--	10.5	--	5.0	--	--	10.5	--	--	10.0	--
3	--	--	--	--	--	--	10.5	--	10.5	--	5.0	--	--	10.5	--	--	10.0	--
4	--	--	--	--	--	--	10.5	--	10.5	--	5.5	--	--	11.0	--	--	10.0	--
5	--	--	--	--	--	--	10.5	--	10.5	--	6.0	--	--	10.5	--	--	10.0	--
6	--	--	--	--	--	--	11.0	--	10.5	--	6.5	--	--	--	--	--	10.0	--
7	--	--	--	--	--	--	11.5	--	11.0	--	8.0	--	--	11.0	--	--	11.0	--
8	--	--	--	15.0	--	15.0	12.5	--	11.5	--	9.0	--	--	11.0	--	--	11.0	--
9	--	--	--	15.0	--	14.5	12.5	--	12.0	--	7.0	--	--	11.0	--	--	11.0	--
10	--	--	--	14.5	--	14.5	12.0	--	12.0	--	9.0	--	--	11.0	--	--	11.0	--
11	--	--	--	14.5	--	14.5	12.0	--	11.0	--	9.0	--	--	10.5	--	--	11.0	--
12	--	--	--	14.5	--	14.5	11.0	--	11.0	--	9.5	--	--	10.0	--	--	11.0	--
13	--	--	--	14.5	--	12.5	11.0	--	11.0	--	10.0	--	--	12.0	--	--	11.0	--
14	--	--	--	12.5	--	12.0	11.0	--	11.0	--	10.0	--	--	12.0	--	--	11.0	--
15	--	--	--	12.5	--	12.5	11.0	--	10.5	--	11.0	--	--	--	--	--	11.0	--
16	--	--	--	13.0	--	12.5	11.0	--	10.5	--	14.0	--	--	--	--	--	--	--
17	--	--	--	13.0	--	12.5	11.5	--	11.0	--	--	--	--	10.5	--	--	--	--
18	--	--	--	12.5	--	11.5	11.5	--	10.5	--	14.5	--	--	10.5	--	--	--	--
19	--	--	--	11.5	--	11.0	10.5	--	10.5	--	13.0	--	--	9.5	--	--	14.0	--
20	--	--	--	11.0	--	11.0	11.0	--	10.5	--	--	--	10.0	--	8.5	--	--	--
21	--	--	--	11.0	--	11.0	11.0	--	10.5	--	--	--	--	10.0	--	--	--	--
22	--	--	--	11.0	--	11.0	11.0	--	11.0	--	9.5	--	--	10.5	--	--	--	--
23	--	--	--	11.0	--	10.5	11.0	--	11.0	--	9.5	--	--	10.0	--	--	--	--
24	--	--	--	11.0	--	11.0	11.5	--	11.0	--	13.0	--	--	--	--	--	--	--
25	--	--	--	11.0	--	11.0	12.0	--	11.5	--	13.0	--	--	10.0	--	--	--	--
26	--	--	--	11.0	--	10.5	--	11.5	--	--	--	--	--	10.0	--	--	--	--
27	--	--	--	11.0	--	10.5	--	11.5	--	--	11.5	--	--	10.0	--	--	--	--
28	--	--	--	12.0	--	11.0	--	10.5	--	--	11.5	--	--	10.0	--	12.5	--	11.5
29	--	--	--	12.0	--	12.0	--	9.0	--	--	11.5	--	--	--	--	12.5	--	12.5
30	--	--	--	12.0	--	11.5	--	8.5	--	--	11.5	--	--	--	--	12.5	--	12.0
31	--	--	--	--	--	--	--	8.5	--	--	11.0	--	--	--	--	--	--	--
MONTH	--	--	--	--	--	--	12.5	--	10.5	--	--	--	--	--	--	--	--	--

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	--	--	--	20.0	--	17.0	22.0	--	19.0	27.0	--	22.0	26.0	--	22.0	23.5	--	20.5
2	--	12.0	--	19.5	--	16.5	23.0	--	19.5	26.5	--	22.0	27.0	--	22.5	24.0	--	20.5
3	--	--	--	18.5	--	16.5	23.5	--	20.0	26.0	--	21.0	26.5	--	22.5	24.5	--	20.5
4	--	--	--	19.0	--	16.0	23.5	--	20.5	26.0	--	21.0	27.0	--	22.5	25.0	--	21.0
5	--	--	--	19.5	--	16.5	24.5	--	21.0	26.5	--	21.5	26.0	--	22.5	25.5	--	22.0
6	--	--	--	20.5	--	17.0	24.5	--	21.5	27.0	--	22.0	27.0	--	22.0	25.5	--	22.5
7	--	16.0	--	21.0	--	17.5	24.5	--	20.5	25.5	--	21.5	27.0	--	23.0	25.0	--	23.0
8	--	16.0	--	21.5	--	18.5	24.0	--	20.5	26.5	--	20.5	27.0	--	22.0	25.0	--	22.5
9	--	16.0	--	21.0	--	18.0	24.0	--	20.5	22.0	--	19.5	26.0	--	22.5	25.5	--	22.5
10	--	16.0	--	20.0	--	17.0	24.0	--	20.5	22.0	--	20.0	25.5	--	22.0	26.5	--	22.5
11	--	16.0	--	20.5	--	16.5	22.5	--	20.0	24.0	--	20.0	25.0	--	21.5	25.5	--	23.0
12	--	16.0	--	--	--	--	23.0	--	20.5	25.0	--	20.5	23.5	--	21.0	25.5	--	23.0
13	--	17.0	--	--	--	--	22.5	--	20.5	26.0	--	20.5	24.0	--	20.5	23.5	--	22.5
14	--	17.0	--	--	--	--	22.5	--	20.0	27.0	--	22.0	25.0	--	22.0	23.0	--	21.0
15	--	17.0	--	--	--	--	23.0	--	20.0	27.0	--	22.5	24.5	--	21.0	22.5	--	20.0
16	--	17.0	--	18.5	--	15.5	22.0	--	20.5	27.0	--	22.0	25.0	--	21.0	22.5	--	20.0
17	--	17.0	--	17.5	--	15.5	21.0	--	19.5	27.0	--	22.0	25.0	--	21.5	23.0	--	20.0
18	--	17.0	--	16.5	--	15.0	20.0	--	19.0	28.0	--	22.5	25.0	--	21.5	23.0	--	20.0
19	--	--	--	17.5	--	14.5	19.5	--	18.5	28.5	--	23.0	25.0	--	21.0	22.5	--	20.0
20	--	--	--	19.0	--	15.5	22.5	--	18.0	28.0	--	23.0	25.0	--	21.0	23.0	--	20.0
21	--	17.0	--	20.0	--	17.0	24.0	--	20.0	28.0	--	23.0	25.5	--	21.5	23.0	--	20.5
22	--	17.0	--	21.0	--	17.5	25.5	--	21.0	28.5	--	23.0	26.5	--	21.5	22.0	--	20.0
23	--	--	--	22.0	--	18.0	25.0	--	21.5	29.0	--	23.5	27.0	--	22.5	21.0	--	19.0
24	--	14.0	--	22.5	--	17.5	25.0	--	21.0	29.0	--	24.0	27.0	--	22.5	21.0	--	19.0
25	14.5	--	13.0	--	--	--	25.0	--	20.5	28.0	--	24.5	26.0	--	22.0	20.5	--	19.0
26	15.5	--	14.0	--	17.5	--	25.0	--	20.0	27.5	--	24.5	26.0	--	22.5	20.0	--	19.0
27	17.0	--	14.0	--	--	--	26.0	--	20.0	27.0	--	24.0	25.5	--	22.0	20.0	--	18.5
28	18.5	--	15.0	--	17.5	--	27.5	--	21.5	26.0	--	23.0	24.5	--	21.5	20.5	--	18.5
29	19.5	--	16.5	--	--	--	27.5	--	22.0	26.5	--	23.0	23.5	--	21.0	21.0	--	18.5
30	19.5	--	17.5	--	18.5	--	26.5	--	22.5	26.5	--	22.0	23.0	--	21.0	21.5	--	19.0
31	--	--	--	23.0	--	19.0	--	--	--	25.0	--	22.5	23.0	--	20.5	--	--	--
MONTH	--	--	--	--	--	--	27.5	--	18.0	29.0	--	19.5	27.0	--	20.5	26.5	--	18.5

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	188	13	6.6	335	15	14	37900	1160	120000
2	204	11	6.1	310	14	12	19100	680	35100
3	206	11	6.1	290	13	10	9690	604	16300
4	212	12	6.9	275	12	8.9	7980	333	7170
5	385	20	21	295	11	8.8	7270	228	4480
6	412	18	20	1240	600	2010	6420	182	3150
7	370	17	17	1830	174	860	4410	170	2020
8	345	13	12	2750	160	1190	3280	129	1140
9	348	10	9.4	3730	371	6900	2830	105	802
10	333	10	9.0	16800	479	20500	2500	57	385
11	335	10	9.0	28800	1540	126000	2750	98	744
12	338	11	10	35400	1190	114000	3050	73	601
13	335	12	11	20000	550	29700	4880	303	4410
14	335	14	13	18400	620	30800	4860	179	2450
15	330	16	14	13000	330	11600	3800	54	554
16	330	18	16	33200	1320	118000	3200	45	389
17	320	16	14	24400	740	48800	3490	41	361
18	320	14	12	22400	430	26000	4590	16	198
19	315	12	10	11300	238	7260	5190	120	1680
20	325	10	8.8	7220	180	3510	5060	595	8130
21	343	16	15	5940	136	2180	10200	848	24100
22	442	19	23	4570	105	1300	15700	280	11900
23	1200	98	335	4170	85	957	9150	190	4690
24	870	45	106	3480	74	695	6800	89	1630
25	640	29	50	3040	60	492	5530	76	1130
26	530	26	37	2670	55	396	4890	65	858
27	485	23	30	2320	44	276	9130	249	6300
28	465	20	25	2120	33	189	9290	227	5690
29	450	19	23	1970	28	149	8370	164	3710
30	395	17	18	10500	1200	63100	8170	139	3070
31	360	16	16	---	---	---	6460	87	1520
MONTH	12466	---	909.9	282755	---	616917.7	235940	---	274662

	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	5410	92	1340	3710	235	2350	34200	1230	117000
2	4500	99	1200	2870	122	945	28500	352	27900
3	5010	114	1520	2340	70	442	16900	210	9580
4	7420	122	2440	2070	50	279	12800	220	7600
5	6210	75	1260	1900	42	215	10700	140	4040
6	4870	82	1080	1760	39	185	9140	128	3160
7	4380	90	1060	1640	37	164	7170	310	6000
8	3900	72	758	1560	33	139	5510	358	5330
9	3480	64	601	1480	30	120	4120	286	3180
10	3110	55	462	1410	32	122	3430	253	2340
11	2830	78	596	1440	49	212	9500	315	8330
12	3720	68	729	2540	183	1260	15100	196	7990
13	6040	180	2940	3070	161	1330	9710	192	5030
14	10500	625	24100	2830	112	856	6760	170	3100
15	38400	1210	123000	2020	97	529	5200	177	2490
16	45800	2350	316000	1550	77	322	4190	141	1600
17	61600	1670	278000	1530	66	273	3490	120	1130
18	43400	720	84400	1400	230	869	3060	149	1230
19	32000	810	70000	8120	773	18100	2680	140	1010
20	22100	667	39800	6540	387	6830	2330	119	749
21	17600	578	27500	4050	180	1970	2090	109	615
22	11800	456	14500	3730	126	1270	1910	91	469
23	9250	456	11400	2850	94	723	1780	50	240
24	7980	328	7070	2370	72	461	1660	40	179
25	6290	298	5060	2080	58	326	1760	70	333
26	4330	223	2610	1900	42	215	1950	83	437
27	3340	118	1060	1810	41	200	4280	287	3860
28	2880	100	778	10400	784	45100	14700	955	38500
29	2550	67	461	---	---	---	20500	562	42300
30	2300	63	391	---	---	---	58000	1330	204000
31	2340	164	1080	---	---	---	42000	510	57800
MONTH	385340	---	1023196	80970	---	85807	345120	---	567522

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	34500	1300	126000	1240	14	47	424	13	15
2	31300	700	59200	1210	13	42	413	14	16
3	18300	453	22400	1180	12	38	404	15	16
4	12500	396	13400	1180	11	35	382	17	18
5	9790	357	9440	1200	18	58	393	18	19
6	7970	238	5120	1190	22	71	396	16	17
7	7060	94	1790	1160	25	78	379	14	14
8	4910	59	782	1130	32	98	369	12	12
9	4090	85	939	1100	30	89	361	16	16
10	3730	88	886	1080	28	82	361	18	18
11	3070	78	647	1040	26	73	312	20	17
12	2670	74	533	845	24	55	302	22	18
13	2480	86	576	746	22	44	319	26	22
14	2630	88	625	639	20	35	323	28	24
15	2480	42	281	563	18	27	316	26	22
16	2300	45	279	534	16	23	302	25	20
17	2090	45	254	506	15	20	305	25	21
18	1930	47	245	543	13	19	305	24	20
19	1870	41	207	600	15	24	305	23	19
20	1750	45	213	607	20	33	305	22	18
21	1650	45	200	593	22	35	289	21	16
22	1580	34	145	566	25	38	273	20	15
23	1520	35	144	490	29	38	263	19	13
24	1510	26	106	576	23	36	251	17	12
25	1480	30	120	560	17	26	243	15	9.8
26	1480	27	108	550	16	24	234	12	7.6
27	1470	20	79	531	15	22	206	14	7.8
28	1390	18	68	521	14	20	206	15	8.3
29	1320	17	61	518	18	25	206	18	10
30	1280	16	55	458	22	27	196	16	8.5
31	---	---	---	438	16	19	---	---	---
MONTH	172100	---	244903	24094	---	1301	9343	---	470.0

	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	196	15	7.9	184	15	7.5	271	8	5.9
2	191	14	7.2	184	13	6.5	273	8	5.9
3	187	13	6.6	191	12	6.2	278	8	6.0
4	182	12	5.9	196	12	6.4	268	9	6.5
5	187	11	5.6	201	11	6.0	278	10	7.5
6	191	10	5.2	201	13	7.1	286	10	7.7
7	196	20	11	204	17	9.4	292	9	7.1
8	199	32	17	206	17	9.5	300	9	7.3
9	204	128	71	204	16	8.8	297	9	7.2
10	281	138	105	209	16	9.0	286	8	6.2
11	338	130	119	212	12	6.9	312	8	6.7
12	302	30	24	220	9	5.3	323	10	8.7
13	278	26	20	220	8	4.8	307	14	12
14	265	24	17	222	6	3.6	297	15	12
15	253	22	15	225	9	5.5	307	16	13
16	246	20	13	232	11	6.9	323	16	14
17	243	18	12	236	14	8.9	338	14	13
18	227	16	9.8	251	14	9.5	348	12	11
19	214	14	8.1	253	15	10	338	10	9.1
20	212	12	6.9	248	15	10	331	9	8.0
21	212	12	6.9	246	14	9.3	336	9	8.2
22	206	12	6.7	243	13	8.5	346	9	8.4
23	194	11	5.8	248	13	8.7	351	8	7.6
24	182	11	5.4	248	12	8.0	353	8	7.6
25	182	10	4.9	251	11	7.5	353	9	8.6
26	182	10	4.9	256	10	6.9	353	8	7.6
27	180	10	4.9	258	10	7.0	358	8	7.7
28	182	22	11	258	9	6.3	358	8	7.7
29	184	20	9.9	260	9	6.3	361	8	7.8
30	187	18	9.1	260	9	6.3	361	8	7.8
31	187	16	8.1	265	9	6.4	---	---	---
MONTH	6670	---	564.8	7092	---	229.0	9583	---	250.8
YEAR	1571473		2816736						

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
OCT.										
23...	1015	--	--	1280	133	460	55	77	86	94
NOV.										
06...	1645	--	--	2270	334	2050	58	75	85	93
08...	1105	15.0	--	3060	184	1520	55	70	85	93
10...	1645	--	--	17600	219	10400	38	51	66	82
13...	1130	13.0	--	18200	371	18200	32	43	54	65
16...	0940	--	33200	--	2100	188000	23	32	45	59
16...	2130	--	33200	--	1040	93300	32	44	55	69
18...	1015	--	--	23800	447	28700	39	51	61	72
19...	1105	--	--	11300	242	7390	--	--	--	--
21...	1035	--	--	6130	136	2250	--	--	--	--
30...	2400	--	--	34500	2750	256000	22	30	39	49
DEC.										
01...	2100	--	--	33200	765	68600	27	37	44	53
03...	0900	--	--	10100	1040	28400	34	48	60	72
13...	1130	11.0	--	5250	372	5280	37	49	58	67
21...	1305	10.5	--	10600	1380	39500	20	28	36	46
27...	1020	11.5	--	9660	293	7640	--	--	--	--
27...	1420	11.0	--	9880	343	9150	--	--	--	--
JAN.										
03...	1000	5.0	--	3810	122	1260	--	--	--	--
04...	0930	5.5	--	7560	129	2630	--	--	--	--
11...	1905	9.5	--	2760	174	1300	--	--	--	--
14...	1545	10.0	--	9370	765	19400	--	--	--	--
14...	2230	10.5	--	24400	1250	82400	31	42	54	67
15...	0830	11.0	--	40500	1090	119000	--	--	--	--
15...	1250	12.0	--	41900	1050	119000	--	--	--	--
16...	1210	15.0	--	43400	3270	383000	38	50	63	77
16...	1700	14.0	--	56100	3090	468000	40	53	67	80
17...	1800	--	--	56100	853	129000	--	--	--	--
18...	1900	--	--	42600	925	106000	--	--	--	--
19...	1030	13.0	--	31600	833	71100	29	34	45	56
19...	2200	--	--	26800	816	59000	--	--	--	--
20...	1600	--	--	21200	654	37400	--	--	--	--
21...	1600	--	--	16900	575	26200	--	--	--	--
23...	1445	9.5	--	9110	428	10500	25	29	36	45
24...	0900	13.0	--	8110	308	6750	--	--	--	--
26...	1700	--	--	3930	253	2690	--	--	--	--
FEB.										
01...	0940	11.0	--	3860	248	2590	--	--	--	--
18...	1830	10.5	--	1380	858	3200	--	--	--	--
19...	2200	10.0	--	12800	411	14200	--	--	--	--
20...	1330	9.0		5790	412	7280	34	45	55	64
20...	1800	10.0	--	5180	379	5300	--	--	--	--
21...	1400	10.0	--	3800	137	1410	--	--	--	--
22...	1745	10.5	--	3410	118	1090	--	--	--	--
MAR.										
01...	1200	10.0	--	34200	1320	122000	--	--	--	--
03...	1845	10.0	--	14400	195	7580	--	--	--	--
11...	1945	11.0	--	16600	269	12100	42	54	61	71
28...	1215	12.0		15300	994	39500	26	34	45	56
30...	1730	--	--	61800	566	94500	--	--	--	--
APR.										
01...	1800	--	--	39200	1520	161000	--	--	--	--
01...	2100	--	--	39600	1130	121000	--	--	--	--
25...	1115	13.0	--	1500	34	138	--	--	--	--
MAY										
30...	1310	20.5	--	467	22	28	--	--	--	--
AUG.										
05...	1150	24.5	--	201	11	6.0	--	--	--	--
SEP.										
12...	1600	24.5	--	319	10	8.6	--	--	--	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT.										
23...	97	--	98	--	99	--	100	--	--	--
NOV.										
06...	98	--	99	--	100	--	--	--	--	--
08...	96	--	97	--	99	--	100	--	--	--
10...	94	--	99	--	100	--	--	--	--	--
13...	77	87	--	96	--	100	--	--	--	--
16...	75	89	--	97	--	100	--	--	--	--
16...	82	93	--	98	--	100	--	--	--	--
18...	84	--	91	--	98	--	100	--	--	--
19...	--	--	91	--	99	--	100	--	--	--
21...	--	--	88	--	97	--	100	--	--	--
30...	62	76	--	91	--	100	--	--	--	--
DEC.										
01...	65	77	--	92	--	100	--	--	--	--
03...	84	94	--	100	--	--	--	--	--	--
13...	78	--	85	--	97	--	100	--	--	--
21...	58	75	--	92	--	100	--	--	--	--
27...	--	--	86	--	95	--	100	--	--	--
27...	--	88	--	97	--	100	--	--	--	--
JAN.										
03...	--	--	68	--	80	--	88	--	95	100
04...	--	--	66	--	76	--	86	--	94	100
11...	--	--	91	--	98	--	100	--	--	--
14...	--	79	--	95	--	100	--	--	--	--
14...	79	88	--	96	--	100	--	--	--	--
15...	--	84	--	92	--	100	--	--	--	--
15...	--	87	--	94	--	99	--	100	--	--
16...	86	--	94	--	98	--	100	--	--	--
16...	90	--	96	--	99	--	100	--	--	--
17...	--	90	--	98	--	100	--	--	--	--
18...	--	90	--	97	--	100	--	--	--	--
19...	70	--	83	--	95	--	99	--	100	--
19...	--	86	--	98	--	99	--	100	--	--
20...	--	86	--	98	--	99	--	100	--	--
21...	--	79	--	96	--	99	--	100	--	--
23...	54	--	66	--	80	--	92	--	100	--
24...	--	91	--	99	--	100	--	--	--	--
26...	--	--	76	--	83	--	89	--	96	100
FEB.										
01...	--	--	72	--	81	--	86	--	96	100
18...	--	89	--	98	--	99	--	100	--	--
19...	--	86	--	98	--	99	--	100	--	--
20...	74	81	--	91	--	99	--	100	--	--
20...	--	89	--	97	--	100	--	--	--	--
21...	--	--	91	--	97	--	100	--	--	--
22...	--	--	88	--	97	--	100	--	--	--
MAR.										
01...	--	96	--	97	--	100	--	--	--	--
03...	--	--	94	--	98	--	100	--	--	--
11...	83	--	90	--	94	--	100	--	--	--
28...	69	78	--	88	--	98	--	100	--	--
30...	--	--	93	--	94	--	96	--	99	100
APR.										
01...	--	74	--	91	--	100	--	--	--	--
01...	--	86	--	95	--	99	--	100	--	--
25...	--	--	90	--	99	--	99	--	100	--
MAY										
30...	--	--	98	--	98	--	99	--	100	--
AUG.										
05...	--	--	99	--	100	--	--	--	--	--
SEP.										
12...	--	--	97	--	100	--	--	--	--	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.								
05...	1220	24.5	5	201	1	1	4	10

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.							
05...	17	25	34	46	62	79	100

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
OCT.			
02...	--	11	6
07...	--	17	10
09...	--	10	5
11...	--	10	5
13...	--	12	8
16...	--	18	8
20...	--	10	6
22...	--	19	10
23...	--	133	75
25...	--	29	20
27...	--	23	10
31...	--	16	8
NOV.			
06...	--	334	130
08...	1105	184	95
08...	1630	154	85
09...	--	452	90
10...	--	219	90
13...	1010	382	100
13...	1130	371	100
13...	1150	364	100
13...	1645	219	90
15...	--	260	85
16...	0940	2100	180
16...	2130	1040	230
17...	1310	488	130
17...	2210	833	180
18...	1015	447	130
18...	1755	341	100
19...	1105	242	90
19...	1730	222	85
20...	1025	176	70
20...	1800	183	65
21...	1035	136	55
21...	1830	126	55
22...	1200	111	45
22...	1800	96	40
23...	--	88	40
24...	--	61	30
25...	1230	60	30
25...	1900	61	25
26...	1120	56	20
26...	2100	54	20
27...	--	44	15
28...	--	66	25
29...	1100	29	15
29...	2300	66	15
30...	1045	630	100
30...	2400	2750	230
DEC.			
01...	1010	896	150
01...	2100	765	150
03...	0900	1040	200
03...	2200	244	75
04...	--	344	100
05...	--	206	80
06...	--	172	65
07...	--	180	60
08...	--	88	25
DEC.			
09...	--	123	50
10...	1500	44	20
10...	1510	46	20
12...	--	66	35
13...	1130	372	100
13...	2110	376	100
14...	--	81	35
15...	--	46	25
16...	--	52	25
17...	--	10	10
18...	--	18	15
19...	--	171	70
20...	--	1220	180
21...	1305	1380	180
21...	2200	426	100
22...	--	434	100
23...	--	158	60
24...	--	86	45
25...	--	74	40
26...	0930	80	45
26...	1920	62	40
27...	1020	293	130
27...	1215	384	100
27...	1320	342	100
27...	1420	343	100
27...	1510	333	100
27...	1625	321	100
28...	--	191	65
29...	--	182	65
30...	--	93	35
31...	--	90	35
JAN.			
01...	--	92	35
02...	--	102	50
03...	1000	122	45
03...	1930	81	40
04...	0930	129	40
04...	2010	77	40
05...	--	79	40
06...	--	71	35
07...	--	83	35
08...	--	70	30
09...	--	64	25
10...	--	50	25
11...	0945	51	25
11...	1905	174	60
11...	2150	56	25
12...	--	52	25
13...	--	216	75
14...	1000	426	100
14...	1230	640	130
14...	1545	765	150
14...	1715	852	200
14...	2230	1250	380
15...	0715	1360	350
15...	0830	1090	350
15...	1035	1060	350
15...	1250	1850	380
16...	1000	3180	1200
16...	1210	3270	1200

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
JAN.			
16...	1700	3090	1000
16...	1810	3120	1200
16...	2000	3060	1500
16...	2230	3000	1200
17...	0400	2650	1000
17...	1800	853	280
18...	1515	1080	250
18...	1900	925	300
18...	2205	995	300
19...	0030	934	250
19...	0945	834	200
19...	1030	833	200
19...	2200	816	150
20...	1200	622	130
20...	1600	654	150
20...	1900	657	180
21...	1600	575	180
21...	1900	565	150
22...	--	422	100
23...	--	428	100
24...	0900	308	100
24...	1700	340	100
25...	--	280	100
26...	0900	195	65
26...	1700	253	70
27...	1035	98	30
27...	1805	104	30
28...	1010	108	30
28...	1735	105	30
29...	0930	66	20
29...	1745	62	20
30...	1010	64	20
30...	1630	72	20
31...	--	212	50
FEB.			
01...	0940	248	70
01...	1810	206	60
02...	--	117	40
03...	--	61	20
04...	--	54	15
05...	--	55	15
07...	1135	35	10
07...	1905	37	10
08...	--	31	10
09...	--	46	10
13...	--	120	65
14...	--	114	65
17...	1130	64	15
17...	2000	54	15
18...	1010	62	40
18...	1830	858	250
19...	1045	867	230
19...	1500	1440	330
19...	2200	411	400
20...	1045	423	180
20...	1330	412	170
20...	1800	379	180
21...	0820	167	65
21...	1400	137	65
21...	2030	161	65
22...	1030	126	60
22...	1745	118	55
23...	--	98	35
24...	--	67	25
26...	--	40	20
27...	--	47	20
28...	--	919	380
MAR.			
01...	0900	1420	350
01...	1200	1320	400
03...	--	195	65
04...	--	244	70
07...	--	345	85
08...	--	362	90
09...	--	290	90
10...	--	283	90
11...	1235	436	90
11...	1945	269	90
12...	--	177	80
13...	--	155	60
14...	--	180	60
15...	--	172	60
MAR.			
16...	--	131	40
18...	--	176	45
20...	--	118	50
21...	--	109	50
22...	--	91	40
23...	--	45	10
24...	--	47	10
26...	--	123	50
28...	1200	894	350
28...	1215	994	330
28...	1800	282	110
29...	--	865	250
30...	--	566	350
31...	--	590	250
APR.			
01...	1800	1520	400
01...	1900	1480	400
01...	2000	1130	400
01...	2100	1130	450
01...	2200	1120	400
03...	--	437	75
06...	--	214	65
07...	--	67	30
08...	--	62	30
09...	--	100	30
11...	--	81	30
12...	--	75	25
13...	--	79	35
14...	--	78	35
15...	--	43	20
16...	--	48	20
17...	--	58	25
18...	--	43	15
19...	--	41	15
20...	--	47	20
21...	--	45	20
22...	1300	33	15
22...	1635	32	15
23...	--	38	15
24...	--	18	15
25...	--	34	15
27...	--	18	7
MAY			
18...	--	13	7
19...	--	15	6
23...	--	29	10
26...	--	17	20
28...	--	14	6
30...	--	22	10
JUNE			
05...	--	18	8
08...	--	12	7
10...	1340	20	8
10...	1800	13	8
24...	--	19	1
26...	--	12	2
JULY			
04...	--	12	1
08...	--	49	6
09...	--	144	25
12...	--	23	3
14...	--	24	4
16...	--	28	4
20...	--	12	3
29...	--	20	3
AUG.			
02...	--	13	6
05...	1150	11	6
05...	1800	9	4
07...	--	17	6
10...	--	16	6
12...	--	9	5
14...	--	6	5
17...	--	14	4
22...	--	13	15
30...	--	9	3
SEP.			
03...	--	8	4
05...	--	10	4
08...	--	9	3
11...	--	8	4
12...	--	10	5

11467600 GARCIA RIVER NEAR POINT ARENA, CALIF.

LOCATION.--Lat 38°55'35", long 123°37'45", in SW¼SW¼ sec.3, T.12 N., R.16 W., Mendocino County, temperature recorder at gaging station 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).

PERIOD OF RECORD.--Water temperatures: October 1963 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 21.5°C July 19; minimum, 6.5°C Jan. 2.
Period of record:
Water temperatures: Maximum (1963 to current year), 22.0°C June 22, 1964, Aug. 29, 1968, June 25, 1973; minimum, 5.0°C Dec. 14-16, 1967, Dec. 11, 1972.

REMARKS.--Recorder stopped Oct. 11-19, July 20 to Sept. 5.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.0	16.0	12.0	18.0	14.0	19.0	14.5			---	---
2	12.0	11.0	15.5	11.5	18.0	14.0	19.0	14.0			---	---
3	12.5	10.0	16.5	12.5	18.0	14.0	20.0	14.5			---	---
4	13.0	10.0	17.0	12.5	18.0	13.5	20.0	15.5			---	---
5	12.0	11.0	15.5	13.0	19.0	15.0	19.5	15.0			---	---
6	13.5	10.5	17.0	12.5	19.5	15.0	19.0	15.0			20.5	16.0
7	13.5	10.5	18.0	13.0	18.0	13.5	18.0	14.5			20.0	16.0
8	13.0	11.0	18.0	13.0	19.0	13.5	16.5	15.0			20.0	16.0
9	13.0	10.5	17.0	13.0	19.5	14.5	20.0	16.0			20.0	16.5
10	13.5	10.0	17.0	13.0	20.0	15.0	20.0	16.0			20.0	16.5
11	14.5	10.0	17.0	12.5	20.0	15.0	20.0	15.0			20.5	15.5
12	14.5	11.0	16.5	13.0	20.0	15.5	20.0	15.0			20.0	16.0
13	15.0	11.0	16.0	12.0	20.0	15.0	19.0	15.0			20.0	16.0
14	15.0	11.0	16.5	12.0	20.0	15.5	19.0	15.0			19.0	16.5
15	14.5	10.5	16.5	13.0	20.0	15.0	20.0	15.5			19.0	16.0
16	15.5	10.5	16.0	12.0	20.0	15.0	20.0	14.5			19.0	15.5
17	13.0	12.0	16.0	12.0	17.0	15.5	21.0	16.0			19.5	15.5
18	12.5	11.0	16.0	12.0	16.0	14.5	21.0	16.5			20.0	15.5
19	14.0	10.5	16.5	12.0	15.5	14.0	21.5	16.5			19.0	16.0
20	15.0	11.0	17.0	12.5	19.5	14.0	---	---			19.0	15.5
21	16.0	12.0	17.0	12.5	19.0	14.5	---	---			19.0	15.0
22	15.0	12.0	17.5	12.5	19.0	14.5	---	---			18.5	15.5
23	15.0	12.0	17.5	11.5	19.0	14.5	---	---			19.0	15.5
24	14.0	11.5	18.0	13.0	19.0	14.0	---	---			19.0	15.5
25	13.0	10.5	18.5	14.0	19.0	15.0	---	---			16.5	15.5
26	14.0	11.0	19.0	14.0	19.0	14.0	---	---			19.0	15.0
27	15.0	10.5	18.0	14.0	19.5	14.5	---	---			19.0	15.0
28	16.0	11.0	18.0	13.5	20.0	15.0	---	---			18.5	15.0
29	17.0	11.5	17.5	13.0	21.0	15.5	---	---			19.0	16.0
30	16.0	12.5	18.0	13.0	19.0	15.5	---	---			18.0	14.5
31	---	---	18.0	13.0	---	---	---	---			---	---
MONTH	17.0	10.0	19.0	11.5	21.0	13.5	---	---			20.5	14.5

11468000 NAVARRO RIVER NEAR NAVARRO, CALIF.

LOCATION.--Lat 39°10'20", long 123°40'06", in SE¼ sec.7, T.15 N., R.16 W., Mendocino County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: January 1959 to July 1965, water years 1966, 1973 to current year (partial-record station).
Water temperatures: October 1965 to current year.

EXTREMES.--Period of record:
Water temperatures: Maximum (1965-68, 1969-71), 25.0°C Aug. 20, June 20, 1967, June 5, Sept. 14, 15, 1971; minimum (1967-68, 1971-72), 5.5°C on several days in 1967 and 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Jan. 18 to Mar. 7, recorder stopped; May 9 to Sept. 5, recorder malfunction. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
NOV.												
16...	0715	4900	--	--	--	9.9	3.5	5.5	.9	50	0	41
JAN.												
22...	1230	--	1740	--	--	--	--	7.3	--	68	0	56
MAR.												
06...	1615	--	1430	--	--	--	--	--	--	--	--	--
MAY												
16...	0800	--	122	50	20	--	--	12	--	124	0	102
JULY												
11...	0745	82	--	--	--	--	--	--	--	--	--	--
SEP.												
06...	0815	--	11	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO
NOV.												
16...	5.6	3.9	.20	--	--	--	76	.10	40	0	23	.4
JAN.												
22...	--	6.2	--	--	--	--	--	--	56	0	--	.4
MAR.												
06...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
16...	--	6.8	.00	.00	.03	.02	--	--	100	0	--	.5
JULY												
11...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
06...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.											
16...	100	7.3	12.5	600	11.4	4.0	0	--	--	--	--
JAN.											
22...	145	7.1	9.0	160	12.4	8.6	0	--	--	--	--
MAR.											
06...	154	7.2	11.0	60	11.5	--	--	--	--	--	--
MAY											
16...	241	7.4	13.0	1	10.5	7.9	100	0	0	0	10
JULY											
11...	265	7.8	16.0	1	8.0	--	--	--	--	--	--
SEP.											
06...	276	7.2	18.0	1	7.3	--	--	--	--	--	--

11468000 NAVARRO RIVER NEAR NAVARRO, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	18.5	--	12.0	14.0	--	13.0	12.0	--	11.5	9.0	--	7.5	--	--	--	--	--	--
2	17.5	--	10.5	13.0	--	11.5	11.5	--	10.5	7.5	--	6.0	--	--	--	--	--	--
3	17.0	--	10.0	12.0	--	11.0	11.5	--	10.5	7.0	--	6.0	--	--	--	--	--	--
4	18.0	--	10.0	11.5	--	10.0	11.5	--	11.0	7.5	--	6.0	--	--	--	--	--	--
5	17.5	--	10.0	11.5	--	11.0	11.5	--	11.0	7.5	--	7.5	--	--	--	--	--	--
6	13.0	--	11.0	11.5	--	10.0	12.0	--	11.5	7.5	--	7.0	--	--	--	--	--	--
7	14.0	--	12.5	12.0	--	11.5	12.5	--	12.0	7.0	--	7.0	--	--	--	--	9.5	--
8	14.0	--	12.5	12.5	--	12.0	12.5	--	12.0	7.0	--	6.5	--	--	--	9.5	--	8.0
9	15.0	--	13.0	12.5	--	12.5	12.0	--	11.0	7.0	--	6.5	--	--	--	9.5	--	8.0
10	15.0	--	12.5	12.5	--	12.0	11.0	--	11.0	7.0	--	6.0	--	--	--	10.5	--	10.0
11	15.0	--	12.5	13.0	--	12.5	11.0	--	10.5	7.5	--	6.5	--	--	--	11.0	--	10.0
12	15.0	--	12.5	13.0	--	12.0	11.0	--	10.5	9.0	--	7.5	--	--	--	11.5	--	10.5
13	15.5	--	12.5	12.0	--	11.0	11.5	--	10.5	9.5	--	9.0	--	--	--	11.5	--	10.5
14	15.5	--	12.5	12.0	--	11.0	11.5	--	10.5	11.0	--	9.0	--	--	--	12.0	--	11.0
15	15.5	--	13.0	12.0	--	11.5	10.5	--	10.0	12.0	--	10.5	--	--	--	12.0	--	11.0
16	15.0	--	12.0	12.5	--	12.0	11.0	--	10.0	12.0	--	11.5	--	--	--	13.0	--	12.0
17	15.5	--	12.5	12.5	--	11.0	11.5	--	11.0	11.5	--	11.5	--	--	--	13.0	--	12.5
18	15.5	--	13.5	12.5	--	11.0	11.0	--	10.0	--	--	--	--	--	--	13.5	--	12.5
19	16.0	--	13.5	11.0	--	10.0	10.0	--	9.5	--	--	--	--	--	--	13.5	--	12.0
20	16.0	--	14.5	11.0	--	10.0	10.5	--	10.0	--	--	--	--	--	--	13.0	--	12.0
21	16.0	--	15.0	11.0	--	10.0	11.0	--	10.5	--	--	--	--	--	--	13.0	--	13.0
22	15.5	--	15.0	10.5	--	10.0	11.0	--	10.0	--	--	--	--	--	--	13.0	--	13.0
23	15.5	--	14.5	10.5	--	9.5	11.0	--	10.5	--	--	--	--	--	--	13.0	--	11.5
24	14.5	--	14.0	10.5	--	10.0	11.5	--	11.0	--	--	--	--	--	--	13.5	--	11.5
25	14.5	--	13.5	10.0	--	10.0	11.5	--	11.5	--	--	--	--	--	--	13.0	--	13.0
26	14.0	--	13.0	10.5	--	10.0	11.5	--	10.5	--	--	--	--	--	--	14.0	--	12.5
27	13.5	--	12.5	11.0	--	10.0	11.0	--	10.5	--	--	--	--	--	--	13.5	--	12.0
28	14.0	--	12.5	12.0	--	11.0	11.5	--	11.0	--	--	--	--	--	--	12.5	--	11.0
29	13.5	--	12.5	12.5	--	12.0	11.5	--	11.0	--	--	--	--	--	--	13.0	--	12.0
30	13.0	--	12.0	12.5	--	11.5	11.0	--	9.0	--	10.0	--	--	--	--	12.5	--	11.5
31	13.5	--	11.5	--	--	--	9.0	--	8.5	--	--	--	--	--	--	11.5	--	10.5
MONTH	18.5	--	10.0	14.0	--	9.5	12.5	--	8.5	--	--	--	--	--	--	--	--	--

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	12.0	--	11.0	16.5	--	14.0	--	--	--	--	--	--	--	--	--	--	--	--
2	12.0	--	10.5	15.5	--	13.5	--	--	--	--	--	--	--	--	--	--	--	--
3	11.5	--	11.0	16.0	--	13.5	--	--	--	--	--	--	--	--	--	--	--	--
4	12.0	--	10.5	16.5	--	15.0	--	--	--	--	--	--	--	--	--	--	--	--
5	12.0	--	11.5	17.0	--	15.0	--	--	--	--	--	--	--	--	--	--	--	--
6	12.5	--	11.0	17.0	--	15.5	--	18.0	--	--	--	--	--	--	--	23.0	--	19.5
7	12.5	--	11.0	18.0	--	15.5	--	--	--	--	--	--	--	--	--	22.5	--	18.5
8	12.5	--	12.0	17.5	--	15.5	--	--	--	--	--	--	--	--	--	23.0	--	19.0
9	12.0	--	10.5	--	--	--	--	--	--	--	--	--	--	--	--	23.5	--	19.5
10	12.0	--	10.0	--	--	--	--	--	--	--	--	--	--	--	--	23.5	--	20.0
11	13.0	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--	23.5	--	19.0
12	13.5	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--	22.5	--	19.0
13	14.0	--	12.5	--	--	--	--	--	--	--	--	--	--	--	--	22.0	--	19.0
14	14.0	--	12.5	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	19.0
15	14.5	--	12.5	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	18.5
16	15.0	--	12.5	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	17.5
17	13.5	--	12.5	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	17.5
18	12.5	--	11.5	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	17.5
19	13.0	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	17.5
20	14.0	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--	21.5	--	17.5
21	14.5	--	13.0	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	17.5
22	14.5	--	13.0	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	17.5
23	14.5	--	13.0	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	17.0
24	13.5	--	12.5	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	17.0
25	12.5	--	11.5	--	--	--	--	--	--	--	--	--	--	--	--	19.0	--	17.0
26	13.0	--	11.5	--	--	--	--	--	--	--	--	--	--	--	--	19.5	--	17.0
27	14.0	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	17.0
28	15.0	--	13.0	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	17.0
29	16.0	--	13.5	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	16.5
30	16.5	--	15.0	--	--	--	--	--	--	--	--	--	--	--	--	18.0	--	16.5
31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	16.5	--	10.0	--	--	--	--	--	--	--	--	--	--	--	--	23.5	--	16.5

11468500 NOYO RIVER NEAR FORT BRAGG, CALIF.

LOCATION.--Lat 39°25'42", long 123°44'12", in NE¼ sec.15, T.18 N., R.17 W., Mendocino County, temperature recorder at gaging station 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).
PERIOD OF RECORD.--Chemical analyses: January 1959 to September 1965, water year 1966 (partial-record station). Water temperatures: December 1965 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 23.5°C July 26; minimum, 6.0°C Feb. 6.
Period of record:
Water temperatures: Maximum, 23.5°C July 26, 1974; minimum (1965-69, 1970 to current year), 2.0°C Dec. 17-21, 1965.
REMARKS.--Recorder malfunction Oct. 1-25, Nov. 17-28, Dec. 1, 2, 27-29, Feb. 12 to Mar. 6.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	10.5	14.5	12.5	17.5	14.5	20.0	17.5	21.5	17.5	19.5	17.0
2	11.0	11.0	14.0	11.5	18.0	14.5	20.0	16.0	22.5	18.5	19.5	17.5
3	11.0	10.5	14.5	11.0	17.5	15.0	20.5	16.5	21.5	18.5	20.0	17.5
4	11.5	10.0	15.5	12.5	17.5	14.5	21.5	18.5	20.5	16.5	20.0	17.0
5	11.5	11.0	15.5	13.5	18.0	16.0	19.5	17.5	18.5	17.5	20.5	16.5
6	11.5	11.0	16.0	13.5	18.5	15.5	21.0	17.0	19.5	16.5	20.0	17.0
7	11.5	11.0	16.5	13.5	18.5	15.5	20.0	18.0	18.5	16.5	19.5	16.5
8	11.0	10.5	16.5	13.5	18.5	14.5	21.5	17.5	17.0	16.5	20.0	17.0
9	11.0	10.0	15.5	13.5	19.5	15.5	21.5	18.0	18.5	16.5	20.5	17.5
10	11.0	9.5	15.5	13.5	19.5	16.5	20.5	18.0	19.5	16.5	20.5	17.5
11	11.5	10.0	15.0	13.0	20.0	16.5	19.0	17.5	19.0	16.0	20.5	16.0
12	12.0	10.5	15.0	13.5	20.0	18.0	20.0	16.5	19.0	17.0	20.0	16.0
13	12.0	10.0	15.0	12.5	20.0	17.5	20.0	17.0	18.5	16.5	19.5	17.0
14	12.0	10.0	14.5	12.0	20.0	17.5	20.0	16.5	17.0	15.5	19.0	17.0
15	12.0	10.5	15.0	13.0	18.0	17.0	19.5	16.5	19.0	16.0	18.0	16.5
16	13.0	10.5	14.5	11.0	18.0	16.5	20.5	17.5	18.5	15.5	18.0	15.5
17	11.5	10.0	13.5	11.5	19.5	16.5	21.5	19.0	18.0	15.5	19.0	16.0
18	11.0	10.0	14.0	10.5	19.5	15.5	20.0	19.5	17.5	16.0	19.0	15.5
19	12.0	10.0	14.5	10.5	19.5	15.5	21.5	18.0	16.5	15.5	18.5	15.5
20	12.5	10.0	14.5	12.0	20.5	15.5	21.0	18.0	15.5	15.0	17.0	16.0
21	13.5	10.5	15.5	12.5	20.5	16.5	21.5	18.5	19.0	15.0	17.5	15.5
22	13.0	11.5	16.5	13.0	21.0	17.5	21.5	17.5	18.5	16.0	17.5	15.5
23	12.5	11.5	16.5	14.5	20.5	16.5	21.5	17.5	19.0	16.0	17.5	15.5
24	11.5	10.0	17.0	14.0	20.5	14.0	22.5	18.5	19.5	17.0	17.0	15.5
25	11.0	9.5	18.0	15.5	20.5	17.5	23.0	19.5	19.0	16.0	16.5	15.5
26	11.5	10.0	18.5	15.0	20.0	17.0	23.5	20.0	19.5	17.0	16.0	15.0
27	12.5	10.0	17.5	15.5	19.5	17.5	22.5	20.0	19.5	16.5	17.0	15.0
28	13.5	10.5	17.5	15.0	19.0	17.5	21.5	19.5	19.5	16.0	17.0	15.0
29	14.5	11.0	17.0	14.0	18.0	17.5	19.5	18.5	20.5	16.5	17.0	16.0
30	14.0	12.5	17.0	13.5	18.5	16.5	20.0	17.5	22.0	18.0	16.5	14.0
31	---	---	17.5	14.0	---	---	19.0	18.5	20.5	18.5	---	---
MONTH	14.5	9.5	18.5	10.5	21.0	14.0	23.5	16.0	22.5	15.0	20.5	14.0

11469000 MATTOLE RIVER NEAR PETROLIA, CALIF.

LOCATION.--Lat 40°18'42", long 124°15'48", in NW¼ sec.11, T.2 S., R.2 W., Humboldt County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: January 1959 to September 1968, water years 1969 to current year (partial-record station).
Water temperatures: November 1965 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 27.5°C July 25, 26; minimum, 4.5°C Jan. 10.
Period of record:
Water temperatures: Maximum (1966-68, 1969-70, 1971 to current year), 28.0°C July 13, 14, 1972, June 26, 1973; minimum (1966-70, 1971 to current year), 3.0°C Jan. 9, 1969, Dec. 11, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Feb. 27 to Mar. 2, Mar. 23 to Apr. 12, recorder stopped.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
FEB. 05...	1310	1360	15	3.0	5.8	.8	58	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
FEB. 05...	48	9.7	2.9	.05	82	.11	51	3	20

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED BORON (B) (UG/L)
FEB. 05...	.4	130	7.6	9.0	120	12.7	2.3	200

11469000 MATTOLE RIVER NEAR PETROLIA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	15.5	14.0	12.5	11.5	11.0	9.5	7.5	10.5	8.0	---	---
2	18.5	14.0	13.0	11.0	11.0	10.5	8.0	6.5	9.5	8.5	---	---
3	19.0	14.0	12.5	10.0	11.5	10.5	7.0	6.0	9.5	7.5	9.5	9.0
4	18.5	14.5	11.5	10.5	11.5	11.0	8.0	6.0	9.0	8.0	9.5	9.0
5	18.0	14.5	12.5	11.0	12.0	11.5	8.5	7.5	8.5	7.5	9.0	9.0
6	16.5	15.5	13.5	12.5	13.0	12.0	7.5	6.5	8.5	6.5	9.5	9.0
7	18.0	15.5	13.5	13.0	13.0	12.5	7.0	6.0	9.0	7.5	10.0	9.0
8	17.0	15.5	13.5	12.5	13.0	12.0	6.5	5.5	9.5	7.5	11.0	9.0
9	19.0	15.5	14.0	13.5	12.0	11.5	6.5	5.5	9.0	7.5	10.0	9.0
10	18.0	15.0	14.0	13.5	11.5	10.5	6.0	4.5	10.5	7.5	9.5	9.0
11	18.0	14.5	13.5	13.5	11.0	10.5	7.5	5.5	9.0	8.5	9.0	7.0
12	19.0	15.0	13.5	12.5	11.5	10.5	9.5	7.5	9.0	8.0	9.5	7.0
13	19.0	15.5	12.5	11.5	11.5	11.0	10.0	9.5	9.0	7.0	10.0	9.0
14	19.0	16.0	12.5	11.5	11.5	11.0	11.0	10.0	10.0	8.0	12.0	10.0
15	18.0	15.5	12.5	12.5	11.0	10.5	11.0	10.5	9.5	9.0	12.5	10.5
16	18.0	14.5	13.0	12.5	12.0	10.5	11.0	11.0	9.5	9.0	12.0	11.0
17	18.5	15.0	12.5	11.5	11.5	11.0	11.0	10.5	9.0	8.0	13.5	11.0
18	17.5	15.5	11.5	10.0	11.0	10.5	11.0	10.5	9.0	8.5	13.5	11.0
19	16.5	15.0	11.0	10.5	11.0	10.0	11.0	10.0	10.0	9.0	13.0	10.5
20	18.5	16.0	11.5	10.5	11.5	11.0	10.0	9.0	9.0	8.5	13.5	10.5
21	16.0	15.0	11.0	10.5	11.5	11.5	9.0	8.0	9.0	8.5	12.0	11.0
22	15.0	14.5	11.0	10.5	11.5	11.0	9.0	8.0	9.5	8.0	13.5	11.0
23	14.5	13.0	10.5	10.0	11.5	11.5	9.0	8.0	9.0	7.0	---	---
24	13.0	13.0	11.0	10.5	12.5	11.5	9.0	8.0	10.0	7.5	---	---
25	13.5	12.0	11.0	10.5	12.5	11.5	9.0	8.0	9.5	9.0	---	---
26	13.0	11.5	10.5	10.0	11.5	11.0	9.5	8.5	10.0	9.0	---	---
27	14.0	11.5	11.5	10.5	11.5	11.5	9.0	8.0	---	---	---	---
28	14.5	12.5	12.0	11.5	11.5	11.5	9.0	8.0	---	---	---	---
29	14.0	12.0	12.0	11.5	12.0	11.0	8.5	7.5	---	---	---	---
30	14.5	12.0	12.0	11.5	11.5	9.5	9.5	8.5	---	---	---	---
31	15.0	12.5	---	---	10.0	9.5	9.0	7.5	---	---	---	---
MONTH	19.0	11.5	14.0	10.0	13.0	9.5	11.0	4.5	10.5	6.5	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	17.5	14.5	22.5	18.0	23.5	18.5	24.5	20.0	26.0	21.0
2	---	---	17.5	13.5	23.0	18.0	24.5	18.0	24.5	20.0	26.0	21.0
3	---	---	18.0	14.0	23.5	18.5	25.5	19.5	24.0	19.0	24.5	21.0
4	---	---	19.0	15.0	22.5	18.5	25.5	19.5	25.5	19.5	25.0	20.5
5	---	---	19.5	16.0	25.0	20.0	26.5	21.0	22.5	20.5	24.5	18.5
6	---	---	20.0	16.0	24.0	20.0	24.0	20.0	25.5	20.5	23.0	18.5
7	---	---	20.5	16.5	21.5	17.5	21.0	19.0	25.5	20.5	24.0	19.0
8	---	---	20.5	16.5	23.0	17.5	20.0	18.5	24.0	18.0	25.0	19.5
9	---	---	19.0	15.5	23.5	18.5	22.5	18.5	25.0	19.0	24.5	19.5
10	---	---	19.5	15.5	24.0	19.5	21.5	19.5	24.0	18.5	24.0	20.0
11	---	---	20.0	15.5	24.5	19.5	23.0	18.0	24.0	17.5	24.0	20.0
12	---	---	18.0	15.0	22.5	19.5	24.0	19.0	23.0	16.5	24.5	19.0
13	14.5	11.0	17.5	14.0	22.5	19.0	23.5	18.5	24.0	18.0	23.0	18.0
14	14.5	11.5	18.5	14.0	23.5	19.5	24.5	19.5	24.0	18.0	22.0	18.0
15	14.0	11.5	19.0	15.0	23.0	19.0	23.5	19.5	23.5	18.0	22.0	18.0
16	15.5	11.0	17.5	14.5	20.5	18.0	23.5	18.5	25.5	18.0	22.0	17.0
17	14.5	12.5	18.0	14.0	22.0	18.0	25.5	21.0	24.5	19.0	22.0	17.0
18	13.0	11.5	17.0	14.0	24.0	19.5	25.5	22.0	24.0	18.5	22.0	16.5
19	14.5	11.0	17.0	14.5	21.0	18.5	26.0	21.0	23.0	18.0	22.5	17.0
20	16.0	12.5	18.0	14.5	24.0	18.0	25.0	20.5	24.0	17.5	22.0	17.5
21	16.5	12.5	20.0	15.0	25.0	20.0	26.0	20.5	24.0	18.0	22.0	16.5
22	15.5	13.5	20.5	15.5	25.0	19.5	25.5	19.5	25.5	19.0	22.0	16.5
23	14.0	12.0	20.5	16.0	24.5	20.0	25.5	19.5	25.0	20.0	22.0	17.0
24	15.5	12.0	21.0	16.5	24.0	19.5	26.5	20.5	25.0	19.5	22.0	17.5
25	14.0	12.0	23.0	17.5	23.0	20.0	27.5	21.5	24.0	20.0	21.0	17.0
26	15.0	11.0	23.5	18.5	23.5	19.0	27.5	22.5	24.0	20.0	21.0	17.0
27	16.0	12.5	21.5	17.5	25.0	19.5	26.5	22.5	24.5	19.0	21.0	15.5
28	17.0	13.0	22.0	17.5	25.5	20.0	26.0	22.5	24.5	19.0	20.5	15.0
29	18.0	14.0	21.5	17.0	26.0	21.0	23.5	21.5	25.0	19.0	21.0	17.0
30	18.5	15.0	21.5	16.5	25.0	21.0	23.0	19.5	25.0	21.0	21.0	15.0
31	---	---	22.5	17.0	---	---	24.0	19.0	25.0	21.0	---	---
MONTH	---	---	23.5	13.5	26.0	17.5	27.5	18.0	25.5	16.5	26.0	15.0

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CALIF.

LOCATION.--Lat 39°24'29", long 122°58'13", in SE¼ sec.15, T.18 N., R.10 W., Lake County, Mendocino National Forest, temperature recorder at gaging station, 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).
PERIOD OF RECORD.--Water temperatures: October 1963 to current year.
Sediment records: Water years 1966-67 (partial-record station).
Turbidity: Water years 1966-67, 1969-71 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 20.0°C on several days during September; minimum, 7.0°C on several days during January.
Period of record:
Water temperatures: Maximum, 23.0°C on several days in 1967; minimum (1966-72, 1973 to current year), 4.5°C on several days in 1969.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	18.5	14.5	14.0	9.5	9.5	9.0	9.0	8.5	8.5	9.5	9.0
2	19.0	18.5	14.0	13.5	10.0	9.5	9.0	8.5	8.5	8.5	9.5	9.5
3	18.5	18.0	14.0	13.5	9.5	9.5	8.5	8.5	8.5	8.5	9.5	9.5
4	18.5	18.0	13.5	13.0	9.5	9.5	8.5	8.5	9.0	8.5	9.5	9.5
5	18.0	18.0	13.0	12.0	9.5	9.5	8.5	8.0	8.5	8.5	9.5	9.5
6	18.0	18.0	13.0	12.0	9.5	9.5	8.0	8.0	9.0	8.5	9.5	9.5
7	18.0	18.0	12.0	11.5	9.5	9.5	8.0	7.0	9.0	9.0	9.5	9.0
8	18.0	17.0	12.0	12.0	9.5	9.5	7.0	7.0	9.0	9.0	10.0	9.5
9	17.0	16.5	12.0	11.5	9.5	9.5	7.0	7.0	9.0	9.0	10.0	10.0
10	16.5	16.5	11.5	11.5	9.5	9.5	7.0	7.0	9.0	9.0	10.0	10.0
11	16.5	16.5	11.5	11.5	9.5	9.0	7.0	7.0	9.0	9.0	10.0	10.0
12	16.5	16.5	11.5	11.5	9.5	9.0	7.0	7.0	9.0	9.0	10.0	10.0
13	16.5	16.5	11.5	11.5	9.0	9.0	7.0	7.0	9.0	9.0	10.0	10.0
14	16.5	16.5	11.5	11.5	9.0	9.0	7.0	7.0	9.5	9.0	10.5	10.0
15	17.0	15.5	11.5	11.5	9.0	9.0	7.0	7.0	9.5	9.0	10.5	10.5
16	17.0	15.0	11.5	10.5	9.0	9.0	8.5	7.0	9.5	9.5	10.5	10.5
17	17.0	15.0	11.0	11.0	9.0	9.0	8.5	8.5	9.5	9.5	11.0	10.5
18	16.5	14.5	11.0	11.0	9.0	9.0	8.5	8.5	9.5	9.5	11.5	11.0
19	16.5	15.0	11.0	10.5	9.0	9.0	8.5	8.5	9.5	9.5	13.0	11.5
20	16.0	15.5	10.5	10.5	9.0	9.0	9.0	8.5	9.5	9.5	11.5	10.5
21	16.0	15.5	10.5	10.5	9.0	9.0	9.0	9.0	9.5	9.5	10.5	10.5
22	16.0	15.5	10.5	10.5	9.0	9.0	9.0	9.0	9.5	9.5	11.0	10.5
23	15.5	14.5	10.5	10.0	9.0	9.0	9.0	9.0	9.5	9.5	11.5	11.0
24	15.5	14.0	10.0	9.5	9.0	9.0	9.0	9.0	9.5	9.0	12.0	11.0
25	15.0	14.0	9.5	9.5	9.0	9.0	9.0	9.0	9.0	9.0	11.0	11.0
26	14.5	13.5	10.0	9.5	9.0	9.0	9.0	9.0	9.0	9.0	11.0	9.5
27	15.0	13.5	10.0	10.0	9.0	9.0	9.0	9.0	9.0	9.0	9.5	9.5
28	14.5	13.5	10.0	9.5	9.0	9.0	9.0	9.0	9.0	9.0	10.0	9.5
29	14.5	13.0	10.0	9.5	9.0	9.0	9.0	8.5	---	---	10.0	10.0
30	15.0	13.5	10.0	9.5	9.0	9.0	8.5	8.5	---	---	10.0	10.0
31	14.5	14.0	---	---	9.0	9.0	8.5	8.5	---	---	10.0	10.0
MONTH	19.0	13.0	14.5	9.5	10.0	9.0	9.0	7.0	9.5	8.5	13.0	9.0

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

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CALIF.

LOCATION.--Lat 39°21'42", long 123°07'38", in SW¼NW¼ sec.6, T.17 N., R.11 W., Mendocino County, temperature recorder at gaging station on right bank, 100 ft (30 m) downstream from powerhouse of Pacific Gas and Electric Co., 1.8 mi (2.9 km) southwest of Van Arsdale Dam, and 2.9 mi (4.7 km) northwest of town of Potter Valley.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1965, water year 1966 (partial-record station). Published as "East Fork Russian River at Potter Valley" in 1952-59.

Water temperatures: March 1964 to current year.

Sediment records: March 1964 to May 1968.

Turbidity: Water years 1964-71 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 25.0°C July 27-29, Aug. 1, 2; minimum, 5.0°C Jan. 10.

Period of record:

Water temperatures (1964-65, 1966 to current year): Maximum (1967 to current year), 25.0°C July 27-29, Aug. 1, 2, 1974; minimum, 3.0°C on several days in 1972.

REMARKS.--No flow Oct. 17-27. Probe inoperative Oct. 15, 16, Oct. 28 to Nov. 3.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	17.0	---	---	9.0	9.0	7.5	7.0	8.0	6.0	7.5	7.0
2	19.0	16.0	---	---	9.0	8.5	7.0	6.0	7.5	6.0	8.5	6.5
3	19.0	16.0	---	---	9.0	8.0	7.0	6.0	7.5	6.0	7.0	7.0
4	19.0	15.5	10.5	7.5	8.5	8.0	7.5	6.5	7.5	6.0	7.0	6.0
5	18.5	16.0	12.5	10.0	9.0	8.0	7.0	6.5	7.0	6.0	7.5	7.0
6	18.5	17.0	14.5	12.5	9.0	8.5	7.0	6.5	7.5	5.5	8.5	7.5
7	18.5	17.0	15.5	14.0	9.5	9.0	7.0	6.0	8.0	6.0	8.0	7.5
8	18.0	16.0	15.5	14.5	9.0	8.5	6.5	5.5	8.0	6.0	8.5	7.0
9	18.5	16.0	15.5	14.5	9.0	8.0	6.5	5.5	7.5	6.0	8.5	7.0
10	17.5	15.0	16.0	15.0	8.5	7.5	6.0	5.0	7.5	6.0	8.0	7.5
11	17.5	15.0	16.0	15.0	9.0	8.0	6.0	5.5	7.5	6.0	8.5	7.5
12	18.0	15.0	15.0	12.5	8.0	8.0	6.0	6.0	7.0	6.5	8.5	8.0
13	17.5	15.5	12.5	12.0	8.0	7.5	6.5	6.0	7.0	6.0	9.0	7.0
14	17.0	15.5	13.5	11.5	8.5	8.0	6.5	6.0	8.0	6.5	9.0	8.0
15	---	---	13.5	13.0	8.0	7.5	8.0	6.5	8.0	7.0	9.5	8.5
16	---	---	14.5	12.0	8.0	7.5	8.5	8.0	8.0	7.0	9.5	8.5
17	---	---	14.0	11.5	8.0	8.0	9.0	8.5	8.0	6.0	10.5	8.0
18	---	---	12.5	8.5	8.0	7.5	9.0	9.0	7.5	7.0	10.5	9.0
19	---	---	11.5	8.0	8.0	7.0	9.0	9.0	8.0	7.5	11.5	9.0
20	---	---	11.5	9.0	8.0	8.0	9.5	9.0	7.5	6.5	11.0	8.5
21	---	---	12.0	8.5	8.0	8.0	9.0	8.0	7.5	7.0	11.0	8.5
22	---	---	11.0	8.5	8.5	8.0	8.5	8.0	8.0	6.5	11.0	9.0
23	---	---	10.5	8.0	8.5	8.5	8.5	8.0	8.0	6.0	11.0	9.5
24	---	---	11.5	8.0	8.5	8.5	8.5	7.5	8.5	6.0	11.5	9.0
25	---	---	11.0	8.0	8.5	8.5	8.5	7.5	8.0	6.5	11.0	9.5
26	---	---	10.5	7.5	8.5	8.0	8.5	7.0	8.0	7.5	10.5	10.0
27	---	---	10.0	9.0	8.0	8.0	8.5	7.0	7.5	6.5	10.0	8.5
28	---	---	9.5	9.0	8.5	8.0	8.0	7.5	7.5	7.0	9.5	8.0
29	---	---	9.5	9.0	8.5	8.0	7.5	7.0	---	---	9.5	8.5
30	---	---	9.0	9.0	8.0	7.5	7.5	6.5	---	---	9.5	9.0
31	---	---	---	---	8.0	7.5	8.0	7.0	---	---	9.5	9.0
MONTH	---	---	16.0	7.5	9.5	7.0	9.5	5.0	8.5	5.5	11.5	6.0

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

11472150 EEL RIVER NEAR DOS RIOS, CALIF.

LOCATION.--Lat 39°37'30", long 123°20'25", in SW¼SW¼ sec.32, T.21 N., R.13 W., Mendocino County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), October 1958 to current year.
Water temperatures: October 1966 to current year.
Sediment records: October 1966 to current year.
Turbidity: Water years 1967-68 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 30.5°C July 24; minimum, 3.0°C Jan. 10.
Sediment concentrations: Maximum daily, 4,740 mg/l Jan. 16; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 729,000 tons (661,000 tonnes) Jan. 16; minimum daily, 0.02 ton (0.02 tonne) on many days.
Period of record:
Water temperatures (1966-67, 1968 to current year): Maximum (1971 to current year), 31.0°C July 17, 1972; minimum, 1.0°C Dec. 12, 1972.
Sediment concentrations: Maximum daily, 4,740 mg/l Jan. 16, 1974; minimum daily, 0 mg/l on several days in 1969-70, 1973.
Sediment discharge: Maximum daily, 729,000 tons (661,000 tonnes) Jan. 16, 1974; minimum daily, 0 tons (0 tonnes) on several days in 1969-70, 1973.

REMARKS.--Selected chemical-quality analyses furnished by California Department of Water Resources. During period October 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.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.							
03...	0845	6.3	252	8.0	16.0	0	11.4
NOV.							
07...	1700	2720	139	--	12.5	--	--
15...	1200	4490	113	7.9	12.0	110	11.2
DEC.							
12...	0945	1790	120	7.5	8.0	30	12.8
JAN.							
15...	1600	22000	102	--	7.5	--	--
23...	1040	3150	111	7.4	7.0	140	12.7
FEB.							
06...	1205	929	132	8.2	5.5	70	13.3
19...	1700	6500	101	--	8.0	--	--
MAR.							
06...	1045	2780	158	7.1	10.0	65	11.9
25...	1645	1130	145	--	12.0	--	--
APR.							
02...	1340	12200	--	8.2	10.0	270	12.6
03...	0810	8010	103	7.6	8.0	270	12.5
MAY							
15...	0805	206	183	7.9	15.0	6	10.2
JUNE							
12...	0815	35	229	7.9	23.5	1	8.0
JULY							
10...	0745	52	233	8.0	20.0	1	8.4
AUG.							
07...	0755	12	236	7.9	22.0	1	--
SEP.							
05...	0720	7.8	229	8.2	20.0	0	7.1

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV.											
07...	1700	2720	--	--	--	--	--	--	--	--	--
15...	1200	4490	--	--	14	4.1	3.9	.9	61	0	50
JAN.											
15...	1600	22000	--	--	--	--	--	--	--	--	--
FEB.											
19...	1700	6500	--	--	--	--	--	--	--	--	--
MAR.											
25...	1645	1130	--	--	--	--	--	--	--	--	--
APR.											
02...	1340	12200	26000	510	--	--	--	--	--	--	--
03...	0810	8010	--	--	--	--	3.7	--	55	0	45

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	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)
NOV.										
07...	--	--	--	.08	.00	.08	.51	.36	.87	.80
15...	8.9	.9	.08	--	--	--	--	--	--	--
JAN.										
15...	--	--	--	.02	.01	.03	.15	.45	.60	.34
FEB.										
19...	--	--	--	.01	.00	.01	.31	.21	.52	.10
MAR.										
25...	--	--	--	.02	.00	.02	.04	.19	.23	.06
APR.										
02...	--	--	.01	--	--	--	--	--	.40	.75
03...	--	1.2	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.										
07...	.02	--	--	--	--	--	--	12.5	--	9.4
15...	.01	75	.10	52	2	14	.2	12.0	1.2	--
JAN.										
15...	.01	--	--	--	--	--	--	7.5	--	7.1
FEB.										
19...	.10	--	--	--	--	--	--	8.0	--	5.5
MAR.										
25...	.02	--	--	--	--	--	--	12.0	--	1.7
APR.										
02...	.02	--	--	--	--	--	--	10.0	--	--
03...	--	--	--	46	1	--	.2	8.0	2.2	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 HEPTA-CHLOR (UG/L)
NOV.										
07...	1700	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV.									
07...	.00	.00	.00	.00	.00	.0	.00	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (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)
NOV.								
07...	1700	4	2	2	--	<10	10	0
15...	1200	--	--	--	100	--	--	--
JAN.								
15...	1600	8	7	1	--	10	10	0
FEB.								
19...	1700	4	4	0	--	20	20	0
MAR.								
25...	1645	0	0	0	--	<10	<10	0
APR.								
02...	1340	--	--	--	--	0	--	--
03...	0810	--	--	--	0	--	--	--

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
NOV.									
07...	60	0	50	50	0	30	26	4	<100
15...	--	--	--	--	--	--	--	--	--
JAN.									
15...	70	0	50	50	0	30	27	3	<100
FEB.									
19...	40	0	<50	<50	0	30	21	9	<100
MAR.									
25...	0	0	100	100	0	30	27	3	<100
APR.									
02...	--	--	--	--	--	30	--	--	0
03...	--	--	--	--	--	--	--	--	--

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
NOV.								
07...	100	0	.4	.0	.4	100	80	20
15...	--	--	--	--	--	--	--	--
JAN.								
15...	97	3	.2	.1	.1	80	70	10
FEB.								
19...	<94	6	--	--	.0	280	260	20
MAR.								
25...	<96	4	.1	.0	.1	30	20	10
APR.								
02...	--	--	--	--	--	0	--	--
03...	--	--	--	--	--	--	--	--

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	14.0	10.0	6.0	7.0	7.5	10.0	17.0	---	26.0	---	---
2	19.0	---	10.0	4.0	---	6.0	9.0	17.5	25.0	---	29.5	26.0
3	---	10.5	10.0	4.5	7.5	6.5	10.5	19.5	---	---	---	---
4	19.5	11.0	9.0	3.5	6.0	5.5	12.0	19.5	23.0	25.0	---	26.0
5	---	11.0	10.0	6.0	5.0	8.0	10.0	21.0	---	---	28.0	---
6	17.5	13.0	12.0	5.0	4.5	8.0	11.5	20.5	21.5	25.0	---	25.0
7	17.0	14.0	11.5	4.0	5.0	6.5	13.0	22.0	---	---	27.0	---
8	16.5	14.5	11.0	4.0	6.0	7.5	10.5	22.0	---	20.5	---	---
9	18.5	14.5	10.0	4.0	5.0	---	10.0	20.0	---	---	27.5	25.0
10	---	14.5	8.5	3.0	7.0	8.5	12.0	20.0	25.5	23.0	---	---
11	18.0	14.5	10.0	4.0	6.0	8.0	14.0	21.5	---	---	---	25.0
12	---	13.0	8.0	5.5	5.5	8.0	15.0	17.0	26.0	25.5	29.0	---
13	17.0	12.0	8.5	7.0	5.5	10.0	15.0	18.5	---	---	---	23.0
14	---	12.0	8.5	8.0	---	10.0	14.0	19.0	25.5	27.0	26.0	---
15	18.0	13.0	8.0	9.0	7.0	10.5	12.0	16.0	---	---	---	---
16	---	12.5	8.0	9.0	---	---	16.0	17.0	25.0	23.0	27.0	24.0
17	20.0	12.5	9.0	9.0	---	11.0	---	14.0	---	---	---	---
18	---	11.0	7.5	9.5	8.0	12.0	11.5	14.0	20.0	28.0	---	23.0
19	18.0	10.5	8.0	9.5	8.0	11.0	14.0	18.0	20.0	---	26.0	---
20	---	10.5	8.0	8.0	6.0	13.5	15.0	18.5	24.0	29.0	---	23.0
21	---	9.5	8.0	6.0	6.0	12.0	17.0	20.0	---	---	27.0	---
22	17.0	10.5	7.5	6.0	6.0	11.0	16.0	21.0	21.5	25.5	---	---
23	14.0	10.0	8.0	6.0	---	13.0	13.0	20.0	---	---	23.0	24.0
24	14.5	10.5	8.0	7.0	6.5	13.5	10.0	17.0	---	30.5	---	---
25	---	10.0	9.5	7.0	6.0	12.0	10.0	22.5	23.0	---	---	25.0
26	14.0	9.0	8.0	6.0	8.0	11.5	12.5	24.0	---	29.0	26.0	---
27	---	10.0	8.0	6.0	7.0	10.0	13.5	22.0	25.5	---	---	22.5
28	15.0	11.0	8.0	6.0	8.0	10.5	17.0	22.5	---	30.0	25.0	---
29	---	11.5	9.0	6.0	---	11.5	19.0	23.0	27.5	---	---	---
30	14.0	11.0	7.0	6.5	---	10.0	19.0	23.0	---	29.5	25.0	23.5
31	---	---	6.5	7.0	---	10.0	---	23.0	---	---	---	---
MONTH	---	12.0	9.0	6.0	6.5	10.0	13.0	19.5	---	---	---	---

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	6.6	1	.02	45	6	.80	18500	874	46700
2	6.2	1	.02	50	5	.68	8570	386	9230
3	6.2	1	.02	49	2	.26	4990	210	2830
4	6.2	1	.02	50	1	.14	3350	115	1040
5	6.2	1	.02	1490	633	4240	2620	71	502
6	7.6	1	.02	1080	238	856	2380	55	353
7	21	2	.11	1810	572	4620	2100	39	221
8	22	1	.06	2140	362	2830	1980	33	176
9	59	6	1.2	3730	600	10600	1710	30	139
10	23	3	.19	4960	688	9940	1460	27	106
11	11	1	.03	10600	1570	45900	1690	54	260
12	13	1	.04	15100	850	34800	1780	44	220
13	13	1	.04	9490	520	13300	3750	228	2320
14	9.7	1	.03	6890	330	6140	3470	93	871
15	9.7	1	.03	4750	240	3080	2620	41	290
16	9.7	2	.05	12000	1020	34400	2100	26	147
17	26	4	.28	8990	546	13700	2240	41	248
18	21	2	.11	7040	330	6270	2350	36	228
19	18	1	.05	4300	171	2050	1950	24	126
20	18	1	.05	3330	108	971	1930	70	408
21	39	18	3.3	2740	82	607	6300	849	15800
22	436	296	403	2160	61	356	6200	359	6580
23	1270	565	2020	1800	45	219	3760	102	1040
24	412	267	349	1070	34	98	2800	64	484
25	152	92	40	821	20	44	2270	42	257
26	90	45	11	751	34	69	2210	48	307
27	67	42	7.6	1010	43	126	3540	98	937
28	50	17	2.5	1040	30	84	4220	102	1160
29	43	6	.70	1740	140	833	6210	341	5950
30	40	4	.43	9970	997	35000	5130	175	2530
31	37	3	.30	---	---	---.	3570	80	771
MONTH	2949.1	---	2840.22	120996	---	231134.88	117750	---	102231

	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	2710	50	366	2170	188	1100	13100	1320	47300
2	2100	29	164	1630	136	599	11700	859	28000
3	1790	26	126	1340	103	373	7070	460	8780
4	1590	20	86	1180	91	290	4570	267	3290
5	1430	19	73	1060	85	243	3450	180	1680
6	1270	16	55	935	75	189	2890	140	1090
7	1120	15	45	855	68	157	2970	166	1330
8	1030	15	42	767	63	130	2690	124	901
9	929	15	38	700	56	106	2310	91	568
10	838	12	27	646	50	87	2100	82	465
11	773	20	42	608	43	71	3950	359	3980
12	1250	45	152	669	67	121	5100	399	5490
13	2590	153	1130	720	61	119	4480	262	3230
14	6380	681	14700	545	47	69	3430	153	1420
15	24800	1450	103000	392	37	39	2840	111	851
16	56200	4740	729000	1290	242	996	2450	85	562
17	28200	2490	205000	989	210	561	2160	68	397
18	14500	1890	74800	1740	409	4240	1930	60	313
19	14800	1540	62400	7600	1200	26500	1710	47	217
20	9300	902	22700	3950	290	3090	1480	44	176
21	6210	550	9220	2840	220	1690	1350	46	168
22	4410	370	4410	2380	123	790	1320	45	160
23	3450	306	2850	1810	76	371	1220	41	135
24	2880	218	1700	1530	72	297	1100	38	113
25	2450	179	1180	1340	63	228	1060	37	106
26	2150	162	940	1300	65	228	1140	34	105
27	1830	153	756	1290	60	209	1650	391	3160
28	1620	140	612	7210	1530	40100	3110	656	6180
29	1470	127	504	---	---	---	25700	3280	278000
30	1230	109	362	---	---	---	40600	2780	330000
31	1520	144	631	---	---	---	15800	1410	60700
MONTH	202820	---	1237111	49486	---	82993	176430	---	788867

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	21900	2100	124000	401	27	29	60	2	.32
2	13100	887	32200	392	25	26	56	2	.30
3	7540	590	12000	380	23	24	52	2	.28
4	4880	435	5900	380	20	21	47	2	.25
5	3190	251	2170	371	20	20	44	2	.24
6	2430	180	1200	358	19	18	47	2	.25
7	1170	74	234	388	20	21	43	2	.23
8	900	61	148	285	20	15	41	2	.22
9	1240	75	251	171	16	7.4	39	2	.21
10	1060	55	157	129	11	3.8	39	2	.21
11	832	37	83	149	6	2.4	39	2	.21
12	1190	88	283	171	6	2.8	37	3	.30
13	1270	78	267	171	4	1.8	35	3	.28
14	1190	80	257	167	5	2.3	33	3	.27
15	1120	80	242	167	4	1.8	33	2	.18
16	935	68	172	156	4	1.7	33	2	.18
17	883	57	136	138	5	1.9	32	2	.17
18	710	48	92	117	4	1.3	32	2	.17
19	440	46	55	119	2	.64	39	2	.21
20	367	30	30	111	2	.60	43	2	.23
21	341	28	26	101	1	.27	39	2	.21
22	316	23	20	92	7	1.7	35	2	.19
23	304	19	16	80	3	.65	32	2	.17
24	467	89	118	77	2	.42	30	2	.16
25	570	47	72	75	2	.41	29	2	.16
26	669	48	87	75	2	.41	29	2	.16
27	889	88	211	80	3	.65	26	1	.07
28	453	48	59	122	2	.66	26	1	.07
29	565	33	50	75	2	.41	25	2	.14
30	529	30	43	65	2	.35	22	3	.18
31	---	---	---	62	2	.33	---	---	---
MONTH	71450	---	180579	5625	---	208.70	1117	---	6.22

	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	19	4	.21	11	2	.06	9.5	3	.08
2	18	4	.19	11	3	.09	9.5	2	.05
3	18	4	.19	11	3	.09	9.5	2	.05
4	19	5	.26	10	3	.08	8.6	2	.05
5	18	4	.19	10	4	.11	8.2	2	.04
6	18	4	.19	11	3	.09	8.2	2	.04
7	18	4	.19	11	2	.06	7.8	2	.04
8	43	10	1.2	11	2	.06	7.8	2	.04
9	72	6	1.2	11	2	.06	7.8	2	.04
10	47	2	.25	10	2	.05	7.8	2	.04
11	32	3	.26	10	2	.05	7.8	2	.04
12	27	4	.29	10	3	.08	7.8	2	.04
13	26	3	.21	9.9	3	.08	7.8	2	.04
14	22	3	.18	9.9	4	.11	7.8	2	.04
15	21	2	.11	9.9	4	.11	7.8	1	.02
16	20	2	.11	9.9	4	.11	7.8	1	.02
17	19	2	.10	8.6	3	.07	7.8	1	.02
18	19	1	.05	8.6	2	.05	7.8	1	.02
19	17	1	.05	8.6	2	.05	7.8	1	.02
20	17	1	.05	9.0	2	.05	7.8	1	.02
21	16	1	.04	9.0	3	.07	7.8	1	.02
22	14	1	.04	9.5	3	.08	7.8	1	.02
23	13	1	.04	9.5	3	.08	7.8	1	.02
24	13	2	.07	9.5	3	.08	7.8	1	.02
25	13	2	.07	9.0	4	.10	7.8	1	.02
26	13	2	.07	9.0	4	.10	7.8	1	.02
27	13	2	.07	9.5	4	.10	7.8	1	.02
28	13	3	.11	9.5	4	.10	7.4	1	.02
29	13	2	.07	9.5	4	.10	7.4	1	.02
30	12	1	.03	9.5	4	.10	7.4	2	.04
31	11	1	.03	9.5	3	.08	---	---	---
MONTH	654	---	6.12	304.4	---	2.50	239.5	---	.97
YEAR	749821.0		2629980.61						

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	2949.10	2840.22	3	2840
NOVEMBER ...	120996.00	231134.88	44200	275000
DECEMBER ...	117750.00	102231.00	28700	131000
JANUARY 1974	202820.00	1237111.00	115000	1350000
FEBRUARY ...	49486.00	82993.00	6330	89300
MARCH	176430.00	788867.00	84300	873000
APRIL	71450.00	180579.00	28200	209000
MAY	5625.00	208.70	0	209
JUNE	1117.00	6.22	0	6
JULY	654.00	6.12	0	6
AUGUST	304.40	2.50	0	2
SEPTEMBER ..	239.50	0.97	0	1
TOTAL	749821.00	2625980.61	306733	2930364

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT.										
22...	1455	17.0	354	217	207	--	--	--	--	--
NOV.										
05...	1155	11.0	1060	659	1890	45	56	67	79	90
05...	1600	10.5	3150	1610	13700	41	54	65	81	92
07...	1145	14.0	1260	197	670	--	--	--	--	--
11...	1020	14.5	11200	1460	44200	23	32	42	54	67
12...	1025	13.0	17200	784	36400	35	47	59	72	86
15...	1120	13.0	4530	215	2630	--	--	--	--	--
18...	1405	11.0	6810	321	5900	--	--	--	--	--
DEC.										
02...	1120	10.0	8620	395	9190	28	38	47	59	66
10...	1425	8.5	1430	23	89	--	--	--	--	--
JAN.										
08...	1215	4.0	1030	13	36	--	--	--	--	--
14...	1135	8.0	5870	837	13300	--	--	--	--	--
15...	1035	9.0	22500	932	56600	23	30	40	51	63
19...	1345	9.5	14800	1290	51500	31	41	50	57	65
30...	0935	6.5	1230	109	362	--	--	--	--	--
FEB.										
19...	1125	8.0	7440	994	20000	31	41	52	63	74
26...	1230	8.0	1270	60	206	--	--	--	--	--
28...	1710	8.0	12800	2270	78500	--	--	--	--	--
MAR.										
30...	1130	10.0	43200	2230	260000	--	--	--	--	--
APR.										
01...	1930	10.0	20800	1400	78600	--	--	--	--	--
15...	1510	12.0	1130	87	265	83	97	97	98	98

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT.										
22...	--	100	--	--	--	--	--	--	--	--
NOV.										
05...	--	96	--	100	--	--	--	--	--	--
05...	97	--	98	--	100	--	--	--	--	--
07...	--	91	--	98	--	100	--	--	--	--
11...	76	--	89	--	97	--	100	--	--	--
12...	97	--	100	--	--	--	--	--	--	--
15...	--	79	--	87	--	95	--	100	--	--
18...	--	72	--	79	--	88	--	96	--	100
DEC.										
02...	--	73	--	82	--	92	--	98	--	100
10...	--	95	--	100	--	--	--	--	--	--
JAN.										
08...	--	91	--	96	--	100	--	--	--	--
14...	82	--	93	--	99	--	100	--	--	--
15...	--	74	--	87	--	96	--	99	--	100
19...	72	--	79	--	87	--	96	--	100	--
30...	--	96	--	98	--	100	--	--	--	--
FEB.										
19...	83	--	90	--	98	--	100	--	--	--
26...	--	93	--	95	--	98	--	100	--	--
28...	74	--	86	--	98	--	100	--	--	--
MAR.										
30...	74	--	84	--	96	--	100	--	--	--
APR.										
01...	76	--	85	--	95	--	99	--	100	--
15...	--	98	--	98	--	100	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .250 MM
DEC.							
10...	1455	8.5	50	1430	122	4.2	2
JAN.							
08...	1345	4.0	19	1020	90	3.8	5
APR.							
15...	1420	12.0	17	1130	103	2.1	--
AUG.							
06...	1955	27.0	--	12	57	.00	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
DEC.							
10...	2	13	42	62	72	100	--
JAN.							
08...	7	43	85	99	100	--	--
APR.							
15...	1	9	26	50	68	89	100
AUG.							
06...	--	--	--	--	--	--	--

11472500 EEL RIVER ABOVE DOS RIOS, CALIF.

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 mi² (1,826 km²).
PERIOD OF RECORD.--Water temperatures: October 1957 to September 1959, October 1960 to September 1965, May 1966 to current year.
Sediment records: Water year 1957 (partial-record station), October 1957 to September 1965.
EXTREMES.--Current year:
Water temperatures: Maximum, 29.0°C Aug. 2; minimum, 3.5°C Jan. 9-11.
Period of record:
Water temperatures: Maximum (1962-66, 1972 to current year), 29.0°C June 15, 1966, Aug. 2, 1974; minimum (1962-67, 1971 to current year), 1.0°C on several days in 1972.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	16.0	14.0	12.5	9.5	9.0	7.0	6.0	7.5	7.0	8.0	7.5
2	18.0	14.0	12.5	11.0	9.0	9.0	6.0	5.5	7.5	6.5	7.5	7.0
3	17.5	13.0	12.0	10.5	9.0	8.5	5.5	5.5	7.5	6.5	7.5	7.0
4	18.0	13.0	10.5	10.0	9.0	8.5	5.5	5.0	8.0	6.5	8.0	6.5
5	17.5	13.5	11.0	10.0	9.5	8.5	6.0	5.5	7.0	6.0	9.0	8.0
6	15.5	14.5	12.0	11.0	10.0	9.5	5.5	5.0	6.5	5.0	8.5	8.0
7	16.5	14.0	13.0	12.0	10.5	10.0	5.5	4.5	7.0	5.0	8.0	6.5
8	15.5	14.0	13.5	13.0	10.5	9.5	5.0	4.0	7.5	5.5	7.5	6.0
9	17.0	14.5	13.0	13.0	9.5	8.5	5.0	3.5	7.5	6.0	8.0	6.5
10	16.0	14.0	13.5	13.0	9.0	8.5	4.5	3.5	8.0	6.5	8.5	8.0
11	17.0	14.0	13.0	13.0	9.0	8.5	4.5	3.5	7.0	6.5	8.5	8.0
12	17.0	14.0	13.0	12.0	9.0	8.5	6.5	4.5	7.0	6.5	8.5	8.0
13	18.0	14.5	12.0	11.0	9.0	8.5	7.0	6.5	7.0	6.0	9.0	8.0
14	18.0	15.5	11.5	11.0	9.5	9.0	8.0	7.0	7.5	6.0	10.0	9.0
15	18.5	16.0	11.5	11.5	9.0	8.5	8.5	7.5	8.5	7.0	10.5	9.5
16	18.0	14.5	11.5	11.0	9.0	8.5	8.5	8.5	8.0	7.5	10.5	9.5
17	18.0	15.5	11.0	10.5	9.5	9.0	8.5	8.5	7.5	6.5	11.0	9.5
18	18.0	15.5	10.5	10.0	9.0	8.0	9.0	8.5	7.5	7.0	12.0	10.0
19	17.0	15.5	10.0	9.0	8.5	8.0	9.0	8.5	8.0	7.5	12.0	9.5
20	17.0	15.5	10.0	9.5	8.5	8.0	8.5	8.0	7.5	6.5	12.5	9.5
21	16.5	15.0	10.0	9.0	8.5	8.0	8.0	7.0	7.0	7.0	12.5	10.5
22	15.0	13.5	9.5	9.0	8.5	8.0	7.5	6.5	7.5	6.5	12.0	10.5
23	13.5	12.0	9.5	9.0	8.5	8.5	7.5	6.5	7.5	6.0	12.5	10.0
24	13.0	12.0	9.5	8.5	9.0	8.5	8.0	6.5	8.5	6.5	13.0	10.5
25	13.5	12.0	9.0	8.5	9.5	9.0	7.5	7.0	8.0	7.0	12.0	11.0
26	14.0	11.5	9.0	8.0	9.0	8.5	7.0	6.5	8.5	7.5	11.5	10.0
27	14.5	12.0	9.5	8.5	9.0	8.5	7.0	6.0	7.5	7.0	11.0	9.5
28	14.0	12.5	10.5	9.5	9.0	9.0	7.5	6.5	8.0	7.0	10.5	9.5
29	13.0	11.5	10.5	10.5	9.5	8.5	7.5	6.5	---	---	11.0	10.5
30	13.5	11.5	10.5	9.5	8.5	7.5	8.0	6.5	---	---	10.5	10.0
31	14.0	12.5	---	---	7.5	7.0	7.5	7.0	---	---	10.0	9.5
MONTH	19.5	11.5	14.0	8.0	10.5	7.0	9.0	3.5	8.5	5.0	13.0	6.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.5	18.0	14.5	23.0	19.0	24.0	20.0	28.5	23.5	25.0	21.0
2	10.5	9.5	17.5	13.5	22.5	18.5	23.5	17.5	29.0	23.5	24.5	21.0
3	11.0	9.5	18.0	14.0	22.0	18.5	25.0	19.0	28.0	24.0	25.0	20.5
4	11.5	9.5	19.0	14.5	21.0	18.5	25.0	20.0	28.0	23.5	25.0	20.5
5	11.5	10.5	19.5	15.5	22.5	19.0	25.0	19.5	25.5	23.0	25.5	20.5
6	11.5	10.0	19.5	15.5	22.5	19.0	24.5	19.5	27.0	22.5	24.5	21.0
7	13.0	10.0	20.5	16.5	20.5	16.5	22.5	19.0	26.5	21.0	25.0	20.5
8	12.0	10.5	21.0	16.5	21.0	16.0	20.0	18.5	26.5	21.0	24.5	20.0
9	11.0	9.5	19.5	16.5	23.5	18.5	22.5	19.0	27.0	21.5	24.0	20.0
10	12.5	9.5	19.0	15.0	24.5	20.0	22.0	19.0	27.0	22.0	23.5	20.0
11	14.0	10.5	20.0	15.5	24.5	21.0	22.5	18.0	27.0	21.5	23.0	19.0
12	14.5	11.5	18.5	15.5	24.0	20.5	24.0	18.5	26.5	21.0	23.0	19.0
13	14.5	11.5	18.0	14.0	24.5	20.0	25.0	19.5	25.5	20.0	22.5	18.5
14	14.5	11.5	18.0	14.0	23.5	19.5	25.0	19.5	25.0	18.5	23.0	19.0
15	14.0	11.5	18.0	15.0	23.0	19.0	24.5	20.0	24.5	19.0	23.0	18.5
16	15.0	11.5	16.5	14.0	23.0	18.5	24.0	19.0	24.5	19.0	22.5	18.5
17	14.5	12.5	15.0	13.5	23.5	19.5	25.0	19.5	24.5	19.0	23.0	19.0
18	13.5	11.5	14.5	12.5	23.0	19.0	26.5	21.5	23.5	19.0	23.0	19.0
19	13.5	10.5	15.5	12.0	20.0	18.5	27.0	21.5	23.0	18.0	23.0	19.0
20	14.5	11.0	17.5	13.0	22.0	18.0	27.5	22.5	23.0	17.5	22.0	18.0
21	16.5	12.5	18.0	14.5	23.5	19.5	27.5	22.0	24.0	18.5	22.5	18.0
22	16.0	13.5	19.0	15.0	23.5	19.5	25.5	21.5	24.5	19.0	23.0	19.0
23	14.5	13.0	18.5	16.0	24.0	19.5	25.5	20.0	25.0	20.0	22.5	18.5
24	13.0	11.0	19.5	16.0	24.5	20.0	27.0	21.5	25.0	19.5	22.5	19.0
25	11.0	10.0	21.0	17.0	24.0	19.0	27.5	23.5	25.5	20.5	22.0	18.5
26	11.5	10.0	22.0	18.0	23.5	18.0	28.5	24.0	25.5	20.5	22.0	19.0
27	14.0	10.5	21.0	17.5	24.0	18.5	28.0	23.5	25.5	20.5	22.0	18.5
28	15.5	11.5	22.0	17.5	24.5	19.0	28.5	23.5	25.5	20.5	21.0	18.0
29	17.5	13.5	20.5	17.0	27.0	21.5	28.0	22.0	24.0	20.5	20.5	17.5
30	18.0	14.5	20.5	15.5	27.0	23.0	27.0	22.0	23.5	21.0	21.0	17.5
31	---	---	22.0	17.0	---	---	28.0	22.5	24.5	20.5	---	---
MONTH	18.0	9.5	22.0	12.0	27.0	16.0	28.5	17.5	29.0	17.5	25.5	17.5

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, temperature recorder at gaging station on left 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 mi² (420 km²).
PERIOD OF RECORD.--Chemical analyses: November 1964 to September 1966.
Specific conductance: October 1966 to September 1968.
Water temperatures: May 1964 to current year.
Sediment records: Water year 1966 (partial-record station), December 1966 to September 1973.
Turbidity: Water years 1966-68 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 29.5°C July 27, Aug. 2; minimum, 1.0°C Jan. 10.
Period of record:
Water temperatures: Maximum (1965-68, 1969 to current year), 34.5°C July 26, 1973; minimum (1965 to current year), freezing point on many days in 1965-69, 1971, 1973.
REMARKS.--Recorder stopped Oct. 1 to Nov. 7, Apr. 15, 16, May 15-29; recorder malfunction June 1-24, Aug, 27, Aug. 29 to Sept. 30.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			---	---	6.5	5.5	5.0	3.0	5.5	3.0	5.5	3.5
2			---	---	5.5	4.5	3.0	1.5	6.0	3.5	6.5	2.5
3			---	---	6.0	4.5	3.0	2.0	6.5	2.0	7.5	3.5
4			---	---	5.5	4.5	4.0	2.0	5.0	2.0	6.0	5.0
5			---	---	7.0	5.0	3.5	3.0	5.0	2.0	5.0	3.0
6			---	---	7.5	6.0	3.5	2.5	6.0	3.0	5.5	1.5
7			---	---	7.5	7.0	3.5	2.0	6.5	3.0	6.5	2.5
8			11.5	9.5	7.0	5.0	2.5	1.5	6.5	3.5	6.5	4.5
9			11.5	10.0	6.0	5.0	2.5	1.5	6.5	4.0	7.5	5.0
10			11.0	9.5	6.5	4.5	2.0	1.0	5.5	4.0	7.0	5.0
11			11.0	10.0	6.5	5.0	5.5	1.5	5.0	2.5	8.0	4.5
12			10.0	8.0	6.0	5.0	6.0	5.0	6.5	3.0	8.0	6.0
13			8.0	7.0	6.5	5.5	7.5	5.5	7.0	3.5	9.0	5.5
14			8.0	6.5	6.5	5.5	8.0	7.0	6.5	4.5	9.0	6.5
15			8.0	7.5	6.5	5.0	8.0	7.5	6.0	3.0	10.0	6.5
16			8.5	7.0	7.0	5.5	7.5	7.0	5.5	4.0	10.0	6.5
17			7.0	6.0	7.0	5.5	8.5	7.0	6.0	3.5	10.0	5.0
18			7.0	5.5	5.5	4.5	7.5	6.5	5.0	2.5	10.0	6.0
19			5.5	4.5	6.0	4.5	6.5	5.0	4.5	3.5	10.5	5.5
20			6.5	5.0	6.5	6.0	5.0	4.0	5.5	3.0	10.5	5.5
21			6.0	5.0	6.5	5.5	5.5	4.0	6.0	1.5	10.5	6.0
22			6.0	5.0	6.5	5.5	6.0	4.5	7.0	2.5	11.0	7.5
23			6.0	5.0	6.5	5.5	7.0	5.0	6.5	3.5	9.0	6.0
24			6.0	4.5	7.5	6.0	6.0	4.5	6.0	3.5	9.0	7.0
25			6.0	5.0	7.5	7.0	5.5	3.0	5.0	3.0	7.0	6.0
26			5.5	4.5	7.0	6.0	5.5	3.0	5.5	4.5	8.5	7.0
27			7.0	5.5	7.0	6.5	5.5	3.0	5.5	4.0	8.0	7.0
28			7.5	6.5	7.5	7.0	5.5	3.0	5.0	3.5	8.0	5.5
29			7.5	7.0	8.0	6.5	5.5	3.0	---	---	7.5	5.5
30			7.0	6.5	6.5	5.0	6.0	5.0	---	---	9.0	5.5
31			---	---	5.5	5.0	6.5	3.0	---	---	7.5	4.5
MONTH			---	---	8.0	4.5	8.5	1.0	7.0	1.5	11.0	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	5.0	15.0	9.5	---	---	26.0	19.0	28.5	20.0		
2	10.0	7.0	15.0	8.5	---	---	25.5	17.0	29.5	20.5		
3	9.0	6.0	16.0	9.0	---	---	26.0	17.0	28.5	21.0		
4	10.0	5.5	16.0	9.0	---	---	26.0	18.0	29.0	21.5		
5	9.5	6.5	16.5	10.0	---	---	26.0	18.0	26.5	20.5		
6	8.5	5.5	17.0	10.5	---	---	25.0	18.0	28.0	19.5		
7	8.0	4.5	18.0	11.0	---	---	23.0	16.5	28.0	19.0		
8	10.0	6.0	18.0	11.5	---	---	19.5	17.0	28.5	19.0		
9	12.0	6.5	16.0	10.5	---	---	23.0	16.5	28.5	19.5		
10	11.5	6.0	16.5	9.5	---	---	22.5	15.0	28.5	19.0		
11	12.0	7.0	16.5	10.0	---	---	23.5	14.5	28.0	18.5		
12	12.5	7.0	15.5	11.0	---	---	24.5	15.0	27.5	18.5		
13	12.0	7.0	15.0	9.0	---	---	25.5	16.5	26.5	17.0		
14	13.0	9.5	15.5	9.0	---	---	26.0	17.5	26.5	16.0		
15	---	---	---	---	---	---	25.0	17.0	26.5	17.0		
16	---	---	---	---	---	---	25.0	16.5	26.0	17.0		
17	12.5	7.5	---	---	---	---	26.0	17.5	26.0	16.5		
18	9.5	7.5	---	---	---	---	27.5	19.0	25.0	16.0		
19	12.0	7.0	---	---	---	---	28.0	19.0	25.5	15.5		
20	13.0	6.5	---	---	---	---	28.0	19.5	26.0	15.5		
21	14.0	7.5	---	---	---	---	28.0	19.0	26.5	16.0		
22	12.5	9.0	---	---	---	---	27.5	19.0	26.5	17.5		
23	10.0	7.5	---	---	---	---	28.0	19.0	27.0	17.5		
24	7.5	6.0	---	---	---	---	28.5	19.0	27.0	18.5		
25	7.5	4.5	---	---	23.0	15.0	28.5	20.5	26.5	18.0		
26	11.0	5.5	---	---	23.0	14.5	29.0	21.5	26.5	17.0		
27	13.0	6.0	---	---	24.0	15.5	29.5	21.0	---	---		
28	14.0	7.5	---	---	25.5	16.5	28.5	20.5	26.5	19.0		
29	15.5	8.5	---	---	26.5	18.0	28.5	19.0	---	---		
30	16.0	9.5	19.5	11.5	27.0	19.0	28.5	19.5	---	---		
31	---	---	20.0	12.0	---	---	28.5	19.5	---	---		
MONTH	16.0	4.5	---	---	---	---	29.5	14.5	29.5	15.5		

11473000 MIDDLE FORK EEL RIVER BELOW BLACK BUTTE RIVER, NEAR COVELO, CALIF.

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.--Chemical analyses: November 1964 to September 1966.
Water temperatures: July to November 1961, October 1962 to current year.
Sediment records: October 1962 to September 1967.
Turbidity: Water years 1965-67 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 27.0°C Aug. 2-4; minimum, 2.5°C Jan. 10.
Period of record:
Water temperatures (1962-63, 1965-66, 1967-68, 1969 to current year): Maximum, 29.5°C July 15, 1972; minimum (1969 to current year), 0.5°C Dec. 14, 1972.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	16.0	12.0	10.5	7.5	7.0	6.5	5.0	6.0	5.5	5.5	5.0
2	19.0	15.5	10.5	9.5	7.0	6.5	5.0	4.5	5.5	4.5	6.0	5.5
3	19.0	15.0	10.0	9.0	7.0	6.5	4.5	4.0	5.5	4.5	6.5	5.5
4	18.5	14.5	9.0	8.5	7.0	6.5	5.0	4.0	6.0	4.5	6.5	5.5
5	18.0	14.5	9.0	8.5	7.5	7.0	5.0	4.5	5.5	4.0	7.5	6.0
6	16.0	15.5	8.5	8.0	8.0	7.5	5.0	4.5	4.5	3.5	7.0	6.5
7	16.0	15.0	9.5	8.5	8.0	7.5	4.5	4.0	5.5	4.0	7.5	6.0
8	16.0	14.0	10.0	9.5	8.0	7.0	4.0	3.5	6.0	4.5	6.0	4.5
9	16.5	13.5	10.5	10.0	7.5	7.0	4.0	3.0	5.5	4.5	6.5	5.0
10	16.0	13.0	10.5	10.5	7.0	6.5	3.0	2.5	6.0	4.5	7.0	6.0
11	16.5	13.5	10.5	10.5	7.0	7.0	4.0	3.0	6.0	4.5	7.5	7.0
12	17.0	13.5	10.5	9.5	7.0	6.5	5.0	4.0	5.5	5.0	7.5	7.0
13	17.0	14.0	9.5	8.5	6.5	6.5	6.0	5.0	5.0	4.5	7.5	6.5
14	17.0	14.0	8.5	8.5	7.0	6.5	7.0	6.0	6.0	4.0	8.0	7.0
15	17.5	14.0	8.5	8.5	7.0	6.5	7.5	7.0	5.5	4.0	8.0	7.0
16	17.5	14.0	9.0	8.5	7.5	7.0	8.0	7.5	5.5	5.0	8.5	7.5
17	17.5	14.0	8.5	8.0	7.5	7.0	7.5	6.0	5.0	4.0	9.0	7.5
18	17.0	14.0	8.5	7.0	7.0	6.5	8.0	7.5	5.0	4.5	8.5	7.5
19	16.0	14.5	7.5	6.5	7.0	6.5	8.0	7.5	5.0	4.0	8.0	7.0
20	16.0	14.0	7.5	7.0	7.5	7.0	8.0	7.0	4.5	4.0	8.5	7.0
21	16.5	15.5	7.5	7.0	7.5	7.0	7.0	6.0	4.5	4.0	9.0	7.0
22	15.5	13.0	7.0	7.0	7.5	7.0	6.0	5.5	5.0	4.0	9.0	7.0
23	13.0	11.0	7.5	7.0	7.5	7.5	6.0	5.5	5.0	3.0	9.5	7.5
24	11.0	10.0	7.0	7.0	8.0	7.5	6.5	5.5	5.5	3.5	9.5	8.0
25	10.5	9.5	7.0	7.0	8.0	7.5	6.5	5.5	5.5	4.5	9.5	9.0
26	10.0	9.0	7.0	6.5	8.0	7.5	6.0	5.0	6.0	5.0	9.0	8.0
27	11.0	9.5	7.5	6.5	7.5	7.5	5.5	4.5	5.5	4.5	8.5	8.0
28	11.0	10.0	7.5	7.0	8.0	7.5	5.5	4.5	5.5	4.5	8.0	7.5
29	10.0	9.0	7.5	7.5	8.0	7.5	5.0	4.5	---	---	8.5	8.0
30	11.0	9.0	7.5	7.5	8.0	6.5	5.0	4.5	---	---	8.0	7.5
31	12.0	10.0	---	---	7.0	6.5	5.5	5.0	---	---	7.5	7.0
MONTH	19.0	9.0	12.0	6.5	8.0	6.5	8.0	2.5	6.0	3.0	9.5	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	7.0	12.5	11.0	17.0	13.5	23.0	20.0	26.5	22.5	23.0	20.0
2	8.0	7.5	12.5	10.0	17.0	14.0	22.5	19.0	27.0	22.5	23.5	20.0
3	8.0	7.0	13.0	10.5	16.5	14.5	23.0	19.0	27.0	22.5	23.5	20.0
4	9.5	8.0	13.0	10.5	16.5	14.5	24.0	19.5	27.0	23.0	23.5	20.0
5	9.5	9.0	14.0	11.0	17.5	15.0	23.5	19.5	25.0	23.0	23.5	20.5
6	10.0	8.5	14.0	11.5	17.5	15.0	22.5	20.0	26.5	23.0	23.5	20.0
7	9.5	8.5	14.5	12.0	17.0	14.5	21.0	19.0	26.0	22.5	23.5	20.0
8	9.5	8.5	14.0	11.5	18.0	14.5	19.5	18.0	26.0	22.5	23.0	20.0
9	9.0	8.0	12.5	10.5	19.0	15.0	20.0	17.5	26.0	22.0	23.5	20.0
10	9.5	7.5	13.0	10.5	20.0	16.0	20.0	17.0	26.0	22.0	23.5	20.0
11	11.0	8.0	13.5	11.0	20.0	17.0	20.5	17.0	25.5	21.5	23.0	20.0
12	11.0	9.5	12.5	11.5	19.5	17.0	21.5	17.5	25.0	21.5	22.5	18.5
13	11.0	9.0	12.5	10.5	20.0	16.5	22.5	18.5	24.0	21.0	22.5	19.0
14	11.5	9.5	12.5	10.5	20.0	17.0	23.0	19.0	24.0	21.0	22.0	19.0
15	11.0	9.5	12.5	10.5	20.0	17.0	22.0	19.0	24.0	21.0	22.0	18.5
16	12.0	9.5	11.0	9.5	19.0	17.0	22.0	19.0	24.0	20.5	22.0	18.5
17	11.5	9.5	10.5	9.5	20.0	17.0	23.0	19.0	24.0	20.0	22.5	18.5
18	11.0	9.5	9.5	8.0	19.5	17.0	24.0	20.5	23.0	20.0	22.5	18.5
19	11.0	9.5	11.5	8.0	18.0	17.0	25.0	21.0	23.0	20.0	22.0	18.5
20	12.0	9.0	12.5	9.0	19.5	16.0	25.0	21.5	23.5	20.0	22.0	18.5
21	12.5	10.0	13.5	10.0	21.0	17.5	25.0	21.5	24.0	20.0	22.5	18.5
22	12.0	11.0	14.0	11.0	21.0	17.5	25.0	21.0	24.0	20.5	22.5	18.5
23	11.0	10.0	14.0	11.5	21.0	18.0	25.0	21.0	23.5	20.5	22.5	18.5
24	10.0	8.0	14.5	12.0	21.0	18.0	26.0	21.0	24.5	20.5	22.0	18.5
25	9.5	7.5	16.0	12.5	20.0	17.0	26.0	21.5	24.0	20.5	21.5	18.0
26	9.5	7.5	17.0	13.5	20.0	17.0	26.5	22.5	23.5	20.5	21.0	18.0
27	11.0	8.0	16.0	13.5	21.0	17.0	26.5	22.5	23.5	20.0	21.0	17.5
28	12.0	9.0	16.0	13.0	22.5	18.0	26.5	23.0	23.5	20.0	20.5	17.5
29	13.0	10.0	15.0	12.0	23.5	19.0	26.0	22.0	22.5	20.0	20.0	17.0
30	13.0	11.0	15.0	12.0	23.5	20.0	26.0	22.0	22.5	20.0	20.0	17.0
31	---	---	16.0	12.5	---	---	26.0	22.0	23.0	20.5	---	---
MONTH	13.0	7.0	17.0	8.0	23.5	13.5	26.5	17.0	27.0	20.0	23.5	17.0

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.

LOCATION.--Lat 39°42'23", long 123°19'27", in NE¼SE¼ sec.5, T.21 N., R.13 W., Mendocino County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1966. Prior to October 1965, published as "at Dos Rios."
Specific conductance: October 1966 to September 1967.
Water temperatures: October 1957 to September 1959, October 1960 to current year.
Sediment records: Water years 1956-57 (partial-record station), October 1957 to current year.
Turbidity: Water years 1965-68 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 29.5°C July 26, 29; minimum, 2.0°C Jan. 2, 4, 8-10.
Sediment concentrations: Maximum daily, 8,170 mg/l Jan. 16; minimum daily, 1 mg/l on several days during October.
Sediment discharge: Maximum daily, 1,600,000 tons (1,450,000 tonnes) Jan. 16; minimum daily, 0.05 ton (0.05 tonne) Sept. 25-28.
Period of record:
Water temperatures: Maximum (1971 to current year), 35.5°C June 20, 1973; minimum (1968 to current year), freezing point Dec. 22, 1968.
Sediment concentrations (1965 to current year): Maximum daily, 11,800 mg/l Jan. 4, 1966; minimum daily, 1 mg/l on many days in 1965-73.
Sediment discharge (1965 to current year): Maximum daily, 1,600,000 tons (1,450,000 tonnes) Jan. 16, 1974; minimum daily, 0.02 ton (0.02 tonne) on several days in 1970.

REMARKS.--No thermograph record Dec. 12 to Jan. 18, recorder malfunction; June 10 to Aug. 7, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	--	17.0	14.5	--	13.0	6.5	--	6.0	--	4.5	--	7.5	--	6.0	6.5	--	6.0
2	20.0	--	16.0	13.5	--	11.5	6.0	--	5.5	--	2.0	--	7.5	--	5.5	6.0	--	5.0
3	20.5	--	15.0	12.5	--	11.0	6.0	--	5.0	--	3.0	--	7.5	--	5.0	6.5	--	5.0
4	20.5	--	14.5	12.0	--	10.0	6.0	--	5.5	--	2.0	--	7.5	--	5.0	7.5	--	4.5
5	19.5	--	15.0	11.5	--	10.5	6.5	--	5.5	--	4.5	--	7.0	--	4.5	7.5	--	5.5
6	17.0	--	16.0	10.5	--	10.0	7.0	--	6.5	--	4.0	--	6.0	--	4.0	7.0	--	6.5
7	18.5	--	16.0	11.0	--	10.0	7.5	--	7.0	--	3.0	--	7.0	--	4.0	6.5	--	5.0
8	17.5	--	15.5	11.5	--	10.5	7.0	--	6.5	--	2.0	--	7.5	--	4.5	6.5	--	4.0
9	18.5	--	15.5	12.0	--	10.5	6.5	--	6.0	--	2.0	--	7.5	--	4.5	7.0	--	4.5
10	17.5	--	14.0	11.0	--	10.5	6.5	--	5.5	--	2.0	--	8.0	--	4.5	7.0	--	6.0
11	17.5	--	14.5	10.5	--	9.5	7.0	--	6.5	--	2.5	--	6.0	--	4.5	8.0	--	6.5
12	18.0	--	15.0	9.5	--	8.0	--	7.5	--	--	4.5	--	6.5	--	5.5	8.0	--	6.5
13	18.0	--	15.0	8.0	--	7.0	--	8.0	--	--	7.0	--	6.5	--	4.5	8.5	--	6.0
14	19.0	--	15.0	7.5	--	6.5	--	8.0	--	--	7.0	--	8.0	--	4.5	9.5	--	7.5
15	18.5	--	15.5	7.5	--	7.0	--	6.0	--	--	8.5	--	--	--	--	9.5	--	7.5
16	18.0	--	15.0	8.0	--	7.5	--	7.0	--	--	9.0	--	7.5	--	6.0	9.5	--	8.0
17	18.0	--	14.5	7.5	--	6.5	--	8.0	--	--	8.0	--	7.0	--	5.0	10.0	--	8.0
18	17.5	--	14.5	7.0	--	6.0	--	6.0	--	--	9.0	--	6.0	--	5.5	10.0	--	8.0
19	17.0	--	15.0	6.0	--	5.0	--	7.0	--	9.5	--	8.0	7.0	--	6.0	9.5	--	7.0
20	18.0	--	16.0	6.5	--	5.5	--	7.0	--	8.5	--	7.0	6.0	--	4.5	10.0	--	7.0
21	18.0	--	16.0	6.0	--	5.5	--	7.0	--	7.5	--	5.5	5.5	--	4.5	10.0	--	7.5
22	16.0	--	13.0	6.0	--	5.5	--	6.5	--	7.5	--	5.0	6.0	--	4.5	10.0	--	8.0
23	13.0	--	12.0	6.0	--	5.5	--	7.0	--	8.0	--	5.5	6.5	--	4.0	10.0	--	7.5
24	13.0	--	11.5	6.0	--	5.5	--	8.0	--	8.5	--	5.5	7.5	--	4.0	10.0	--	8.0
25	14.0	--	12.5	6.0	--	5.5	--	9.0	--	7.5	--	6.0	6.5	--	5.0	10.0	--	9.0
26	14.0	--	11.5	6.0	--	5.5	--	7.5	--	7.0	--	5.0	6.5	--	6.0	9.0	--	8.0
27	14.5	--	11.5	6.5	--	6.0	--	8.5	--	7.0	--	4.5	6.0	--	4.5	9.0	--	8.0
28	14.0	--	12.0	7.0	--	6.5	--	8.0	--	6.5	--	5.0	6.5	--	5.0	9.0	--	7.5
29	14.0	--	11.0	7.0	--	6.5	--	8.0	--	7.5	--	5.0	--	--	--	9.0	--	8.5
30	14.5	--	11.5	7.0	--	6.5	--	6.5	--	7.0	--	5.0	--	--	--	9.0	--	8.0
31	15.0	--	12.5	--	--	--	--	5.0	--	7.0	--	6.0	--	--	--	8.0	--	7.0
MONTH	21.0	--	11.0	14.5	--	5.0	--	--	--	--	--	--	8.0	--	4.0	10.0	--	4.0

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	--	7.5	14.5	--	12.0	20.5	--	16.0	--	26.0	--	--	--	--	25.0	--	20.5
2	9.0	--	7.5	14.5	--	11.0	21.0	--	16.5	--	25.5	--	--	29.0	--	25.0	--	20.5
3	9.5	--	7.0	15.0	--	11.0	20.5	--	16.5	--	24.0	--	--	--	--	25.0	--	20.0
4	10.0	--	7.0	15.5	--	11.5	20.5	--	16.5	--	24.0	--	--	--	--	25.5	--	20.5
5	10.0	--	8.5	16.0	--	12.0	21.5	--	17.0	--	26.5	--	--	27.0	--	26.0	--	20.5
6	10.5	--	8.0	16.0	--	12.5	21.5	--	17.0	--	24.5	--	--	--	--	25.0	--	21.0
7	10.5	--	8.0	16.5	--	13.0	20.5	--	16.5	--	23.0	--	--	22.0	--	25.5	--	20.5
8	10.0	--	8.5	16.5	--	13.0	21.5	--	16.5	--	21.5	--	28.5	--	23.5	24.5	--	20.0
9	9.0	--	7.5	15.5	--	12.5	26.0	--	16.0	--	19.0	--	28.5	--	23.5	25.0	--	20.5
10	10.0	--	7.0	15.5	--	11.5	--	24.0	--	--	22.5	--	28.5	--	23.5	24.5	--	20.5
11	11.5	--	8.0	16.0	--	12.0	--	25.0	--	--	23.0	--	28.5	--	23.5	25.5	--	20.0
12	12.0	--	9.0	15.5	--	12.5	--	23.5	--	--	25.0	--	27.0	--	23.0	24.0	--	18.5
13	12.0	--	9.0	15.0	--	11.5	--	22.0	--	--	26.0	--	26.0	--	21.5	24.0	--	19.0
14	12.5	--	9.5	15.5	--	11.5	--	23.5	--	--	26.0	--	26.5	--	21.0	23.5	--	19.0
15	12.5	--	9.5	15.5	--	12.0	--	20.0	--	--	25.0	--	26.0	--	21.5	23.5	--	18.5
16	13.0	--	9.5	14.0	--	10.5	--	23.0	--	--	23.0	--	25.5	--	21.0	23.5	--	18.5
17	12.5	--	10.0	12.5	--	10.5	--	20.0	--	--	27.0	--	25.5	--	21.0	23.5	--	18.0
18	11.5	--	9.5	12.5	--	9.5	--	19.0	--	--	28.0	--	24.5	--	20.5	23.5	--	18.5
19	12.0	--	8.5	14.0	--	9.5	--	20.5	--	--	28.0	--	24.0	--	20.0	23.5	--	18.5
20	12.5	--	9.0	15.0	--	10.5	--	23.0	--	--	28.0	--	24.5	--	20.0	23.0	--	18.0
21	14.0	--	10.0	16.5	--	11.5	--	20.0	--	--	28.0	--	26.0	--	20.5	23.0	--	18.5
22	13.0	--	10.5	17.0	--	12.5	--	22.0	--	--	26.0	--	26.0	--	21.0	23.5	--	18.5
23	11.5	--	10.0	17.0	--	13.0	--	20.0	--	--	28.5	--	26.5	--	21.5	23.5	--	18.5
24	10.0	--	8.5	18.0	--	13.5	--	24.0	--	--	29.0	--	27.0	--	21.5	23.5	--	18.5
25	9.5	--	7.5	19.0	--	14.0	--	21.5	--	--	26.0	--	27.0	--	22.0	22.5	--	18.5
26	11.5	--	8.5	20.5	--	15.5	--	24.5	--	--	29.5	--	26.5	--	21.5	22.0	--	19.0
27	15.5	--	9.0	19.5	--	15.5	--	24.0	--	--	29.0	--	26.0	--	21.0	22.5	--	18.0
28	15.0	--	11.0	19.5	--	15.0	--	27.5	--	--	29.0	--	26.0	--	21.0	22.0	--	17.5
29	16.0	--	11.5	19.0	--	14.5	--	27.5	--	--	29.5	--	24.0	--	21.5	22.0	--	17.5
30	15.5	--	12.0	19.0	--	14.5	--	25.0	--	--	29.0	--	24.5	--	20.5	21.5	--	16.5
31	--	--	--	20.0	--	15.0	--	--	--	--	29.0	--	25.5	--	20.5	--	--	--
MONTH	16.0	--	7.0	20.5	--	9.5	--	--	--	--	--	--	--	--	--	26.0	--	16.5

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	24	1	.06	417	37	42	19300	1340	69800
2	23	1	.06	384	35	36	9000	550	13400
3	22	1	.06	345	30	28	6500	360	6320
4	22	1	.06	308	25	21	4900	280	3700
5	21	1	.06	2160	260	2710	4180	210	2370
6	23	1	.06	3120	50	421	4400	270	3210
7	41	2	.22	5490	985	20200	4450	270	3240
8	140	4	1.5	7660	928	23000	4000	320	3460
9	90	3	.73	9140	1830	83100	2800	180	1360
10	67	2	.36	14800	4050	173000	2060	130	723
11	55	1	.15	25700	2720	193000	2700	180	1310
12	49	1	.13	21900	1740	107000	3500	120	1130
13	43	1	.12	11000	1500	44600	6880	724	14400
14	37	1	.10	7950	1300	27900	5270	320	4550
15	35	1	.09	6790	1100	20200	4100	180	1990
16	34	1	.09	16700	2490	116000	3680	175	1740
17	33	1	.09	9690	1400	36600	5900	470	8500
18	30	1	.08	8280	1300	29100	5200	290	4070
19	29	1	.08	4880	380	5010	4030	140	1520
20	29	1	.08	4460	400	4820	4680	288	5000
21	38	5	.51	3740	240	2420	14400	1680	67100
22	1340	293	1700	2940	140	1110	9060	704	17200
23	3140	543	4720	2370	110	704	5240	363	5140
24	2200	255	1510	2540	158	1080	4590	210	2600
25	1530	138	570	2080	80	449	4690	260	3290
26	1140	80	246	2020	80	436	4510	261	3400
27	806	47	102	1870	65	328	7440	592	12200
28	705	42	80	2570	158	1100	8330	757	17500
29	624	40	67	5400	553	8190	17400	2220	118000
30	515	39	54	18000	2260	122000	8890	1080	25900
31	451	38	46	---	---	---	5310	450	6450
MONTH	13336	---	9099.69	204704	---	1024605	197390	---	430573

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	4080	305	3360	2900	440	3450	14500	3300	132000
2	3220	220	1910	2140	270	1560	9020	1740	42400
3	2810	200	1520	1890	180	919	5210	990	13900
4	2430	125	820	1710	140	646	3910	620	6550
5	2180	90	530	1570	120	509	3550	485	4650
6	1980	64	342	1410	110	419	3420	390	3600
7	1780	68	327	1330	76	273	3900	480	5050
8	1670	72	325	1250	78	263	3560	320	3080
9	1540	45	187	1160	70	219	3320	270	2420
10	1410	37	141	1100	88	261	3190	220	1890
11	1350	28	102	1040	55	154	5390	1060	16600
12	2070	115	643	1070	90	260	5540	900	13500
13	4850	1240	21000	1060	68	195	4730	550	7020
14	10500	1870	68000	947	50	128	4080	360	3970
15	37500	5500	569000	899	40	97	4060	360	3950
16	72100	8170	1600000	1160	150	470	3950	330	3520
17	31600	5690	504000	1050	95	269	3990	340	3660
18	18700	4060	206000	1740	234	2940	4250	390	4480
19	19600	3890	213000	9680	3320	95300	4000	330	3560
20	10400	2310	64900	3910	780	8230	3820	290	2990
21	7450	1540	31000	3090	580	4840	3700	270	2700
22	5570	1060	15900	2680	410	2970	3610	260	2530
23	4510	814	9910	2200	285	1690	3500	210	1980
24	3830	580	6000	2040	225	1240	3390	195	1780
25	3320	480	4300	1950	190	1000	3790	384	3930
26	2940	350	2780	2100	230	1300	4210	385	4380
27	2540	250	1710	2070	220	1230	5250	672	10900
28	2310	250	1560	11100	3800	167000	7520	833	17800
29	2080	220	1240	---	---	---	36000	5700	744000
30	1910	155	799	---	---	---	48400	5760	799000
31	2410	308	2360	---	---	---	19900	3370	185000
MONTH	270640	---	3333666	66246	---	297832	236660	---	2052790

	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	26400	4050	293000	2270	195	1200	734	21	42
2	15700	2570	109000	2190	150	887	738	22	44
3	9250	1470	36700	2140	135	780	738	20	40
4	6610	1080	19300	2080	135	758	698	18	34
5	5530	902	13500	2040	125	688	693	21	39
6	4810	715	9290	2220	155	929	726	17	33
7	4110	520	5770	2330	160	1010	647	17	30
8	3690	460	4580	2550	220	1510	577	17	26
9	3860	430	4480	2460	190	1260	524	17	24
10	3410	320	2950	2010	145	787	491	12	16
11	3050	270	2220	1850	100	499	472	9	11
12	2900	240	1880	1700	85	390	450	10	12
13	2690	190	1380	1500	75	304	424	9	10
14	2570	230	1600	1370	70	259	391	15	16
15	2530	250	1710	1300	70	246	358	9	8.7
16	2450	220	1460	1200	45	146	336	7	6.4
17	2440	220	1450	1120	42	127	319	7	6.0
18	2550	225	1550	1080	40	117	303	8	6.5
19	2290	200	1240	1020	35	96	306	12	9.9
20	2050	160	886	926	32	80	321	8	6.9
21	1990	145	779	861	29	67	295	5	4.0
22	2110	155	883	840	24	54	266	6	4.3
23	2100	150	850	846	40	91	246	4	2.7
24	1990	145	779	845	28	64	232	6	3.8
25	1880	130	660	891	34	82	218	4	2.4
26	1870	125	631	985	50	133	207	3	1.7
27	1750	105	496	1080	65	190	200	4	2.2
28	1670	95	428	986	48	128	193	4	2.1
29	1720	105	488	944	38	97	184	6	3.0
30	1970	170	904	825	30	67	174	2	.94
31	---	---	---	764	23	47	---	---	---
MONTH	127940	---	520844	45223	---	13093	12461	---	448.54

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	164	3	1.3	44	3	.36	17	3	.14
2	159	3	1.3	41	3	.33	17	3	.14
3	152	6	2.5	39	3	.32	16	4	.17
4	142	4	1.5	37	4	.40	15	4	.16
5	133	4	1.4	39	5	.53	15	4	.16
6	128	4	1.4	45	4	.49	14	4	.15
7	123	2	.66	46	4	.50	14	4	.15
8	155	4	1.7	41	5	.55	13	4	.14
9	328	86	76	37	2	.20	13	4	.14
10	236	22	14	33	2	.18	13	4	.14
11	187	4	2.0	30	2	.16	13	3	.11
12	164	4	1.8	27	2	.15	12	3	.10
13	151	4	1.6	25	2	.14	12	3	.10
14	139	8	3.0	23	3	.19	12	3	.10
15	128	4	1.4	22	3	.18	11	4	.12
16	120	3	.97	21	4	.23	11	4	.12
17	113	4	1.2	20	4	.22	11	4	.12
18	109	5	1.5	20	3	.16	11	5	.15
19	104	3	.84	19	3	.15	11	5	.15
20	100	3	.81	19	3	.15	10	6	.16
21	92	4	.99	19	2	.10	9.9	5	.13
22	87	5	1.2	19	3	.15	9.9	4	.11
23	81	2	.44	17	4	.18	9.7	3	.08
24	76	2	.41	16	5	.22	9.5	3	.08
25	71	3	.58	15	7	.28	9.3	2	.05
26	67	4	.72	15	8	.32	9.3	2	.05
27	61	3	.49	14	5	.19	9.3	2	.05
28	59	2	.32	13	2	.07	9.6	2	.05
29	56	3	.45	21	2	.11	9.9	3	.08
30	52	2	.28	19	2	.10	9.9	3	.08
31	47	3	.38	18	2	.10	---	---	---
MONTH	3784	---	123.14	814	---	7.41	357.3	---	3.48
YEAR	1179555.3		7683085.26						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	13336.00	9099.69	2310	11400
NOVEMBER ...	204704.00	1024605.00	171000	1200000
DECEMBER ...	197390.00	430573.00	154000	584000
JANUARY 1974	270640.00	3333666.00	209000	3540000
FEBRUARY ...	66246.00	297832.00	30600	328000
MARCH	236660.00	2052790.00	179000	2230000
APRIL	127940.00	520844.00	80900	602000
MAY	45223.00	13093.00	7390	20500
JUNE	12461.00	448.54	116	565
JULY	3784.00	123.14	2	125
AUGUST	814.00	7.41	0	7
SEPTEMBER ..	357.30	3.48	0	3
TOTAL	1179555.30	7683085.26	834318	8516600

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT.											
23...	1055	13.0	3470	821	7690	25	33	43	53	64	--
NOV.											
07...	1715	10.0	5950	1240	19900	15	20	26	35	43	53
08...	1145	11.0	7320	615	12200	26	33	44	55	65	--
09...	0820	10.5	4000	284	3070	--	--	--	--	--	--
11...	0925	10.0	29400	2620	208000	19	28	37	47	57	69
DEC.											
01...	0915	6.5	19500	1290	67900	20	29	40	51	62	73
12...	1345	7.5	3330	140	1260	--	--	--	--	--	--
21...	1000	7.0	17200	1760	81700	17	25	34	45	56	68
30...	1120	6.5	8770	804	19000	19	28	36	47	56	--
JAN.											
10...	1415	2.0	1430	34	131	--	--	--	--	--	--
15...	1005	8.5	43400	5100	598000	--	--	--	--	--	73
16...	1030	9.0	86200	8670	2020000	23	30	40	52	64	73
17...	1010	8.0	32700	5310	469000	--	--	--	--	--	72
19...	0755	8.0	22400	3720	225000	--	--	--	--	--	68
20...	0805	7.0	11300	2180	66500	--	--	--	--	--	68
21...	0820	5.5	6600	1490	26600	--	--	--	--	--	70
FEB.											
06...	1025	4.0	1450	110	431	--	--	--	--	--	--
25...	1730	5.5	1930	173	901	29	44	52	61	67	--
MAR.											
01...	0835	6.5	10800	2410	70300	--	--	--	--	--	67
01...	1545	6.5	17500	3800	180000	--	--	--	--	--	63
29...	1900	8.5	61700	7330	1220000	24	26	36	49	60	71
30...	1100	8.5	46200	5350	667000	--	--	--	--	--	72
APR.											
01...	1845	9.0	28600	3660	283000	--	--	--	--	--	68
17...	1335	10.5	2510	251	1700	31	44	57	69	77	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.											
23...	72	--	79	--	87	--	96	--	100	--	--
NOV.											
07...	--	61	--	70	--	80	--	98	--	100	--
08...	72	--	79	--	88	--	95	--	100	--	--
09...	63	--	69	--	76	--	84	--	100	--	--
11...	--	83	--	93	--	99	--	100	--	--	--
DEC.											
01...	--	82	--	91	--	98	--	100	--	--	--
12...	64	--	67	--	70	--	76	--	93	--	100
21...	--	80	--	92	--	99	--	100	--	--	--
30...	63	--	73	--	86	--	94	--	98	--	100
JAN.											
10...	85	--	88	--	92	--	100	--	--	--	--
15...	--	85	--	93	--	98	--	100	--	--	--
16...	--	88	--	96	--	99	--	100	--	--	--
17...	--	84	--	95	--	99	--	100	--	--	--
19...	--	78	--	90	--	98	--	99	--	100	--
20...	--	76	--	87	--	94	--	100	--	--	--
21...	--	79	--	90	--	97	--	100	--	--	--
FEB.											
06...	86	--	89	--	93	--	96	--	100	--	--
25...	69	--	73	--	80	--	92	--	100	--	--
MAR.											
01...	--	78	--	90	--	97	--	100	--	--	--
01...	--	77	--	91	--	99	--	100	--	--	--
29...	--	85	--	96	--	99	--	100	--	--	--
30...	--	85	--	96	--	100	--	--	--	--	--
APR.											
01...	--	78	--	91	--	97	--	100	--	--	--
17...	82	--	86	--	90	--	96	--	99	--	100

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
DEC.								
12...	1410	7.5	6	3300	124	1290	1	3
JAN.								
10...	1500	2.0	5	1420	120	70	7	9
FEB.								
25...	1735	5.5	6	1930	122	213	13	23
APR.								
17...	1450	10.5	7	2490	112	66	7	33
AUG.								
07...	0835	22.0	--	46	73	.00	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
DEC.							
12...	13	34	59	75	96	98	100
JAN.							
10...	32	48	68	83	100	--	--
FEB.							
25...	44	55	65	75	87	100	--
APR.							
17...	65	82	88	90	97	100	--
AUG.							
07...	--	--	--	--	--	--	--

11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.

LOCATION.--Lat 39°56'18", long 123°20'36", in SW¼ sec.8, T.24 N., R.13 W., Mendocino County, at county road bridge 0.2 mi (0.3 km) downstream from gaging station, 1.2 mi (1.9 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 temperatures: October 1972 to current year.
Sediment records: Water years 1966-67 (partial-record station), October 1972 to current year.
Turbidity: Water year 1967 (partial-record station).

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 5,050 mg/l Jan. 16; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 426,000 tons (386,000 tonnes) Jan. 16; minimum daily, 0.01 ton (0.01 tonne) on many days.
Period of record:
Sediment concentrations: Maximum daily, 5,050 mg/l Jan. 16, 1974; minimum daily, 1 mg/l on many days in 1972-74.
Sediment discharge: Maximum daily, 426,000 tons (386,000 tonnes) Jan. 16, 1974; minimum daily, 0 tons (0 tonnes) on many days in 1973.

REVISIONS.--Revised figures for bedload discharge and total-sediment discharge for water year 1973, superseding those previously published in WRD Calif. 1973, are given herewith:

MONTH	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
DECEMBER 1972	20300	113000
JANUARY 1973	73700	292000
TOTAL.....	101869	466627

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		---	---	5.0	---	8.0	8.5	---	---	27.0	---	
2		---	7.0	---	7.0	8.0	---	12.5	22.0	---	---	
3		---	---	4.0	---	7.5	---	---	---	---	---	
4		---	---	---	---	7.5	---	---	22.0	---	---	
5		---	---	---	4.5	---	---	---	---	---	---	
6		10.5	9.5	---	---	---	---	13.5	---	---	---	
7		---	9.5	---	---	6.0	---	---	---	---	28.0	
8		---	---	---	---	7.0	---	---	---	---	---	
9		---	---	2.0	7.0	8.0	---	---	---	---	---	
10		---	8.5	2.0	---	8.5	---	---	---	---	---	
11		---	7.5	---	---	9.0	---	18.0	---	---	---	
12		---	8.0	7.0	7.0	8.5	---	---	---	---	---	
13		---	---	7.5	6.5	---	---	---	---	---	---	
14		9.0	---	8.5	5.0	9.0	---	17.0	---	---	---	
15		---	10.0	9.5	---	9.5	---	18.0	---	---	---	
16		10.5	11.0	9.5	7.5	---	10.0	---	---	---	22.5	
17		10.5	9.5	9.5	---	---	14.0	15.5	---	24.5	---	
18		9.0	---	10.0	7.0	9.5	12.0	---	---	---	---	
19		8.0	---	---	7.5	---	---	---	---	---	---	
20		---	---	10.5	7.0	12.0	---	---	21.0	---	---	
21		---	---	---	7.5	11.0	---	---	---	---	---	
22		---	---	5.0	6.0	12.5	14.0	---	---	---	---	
23		7.5	---	---	3.5	11.5	---	---	---	---	---	
24		---	---	7.5	5.0	---	---	---	19.0	---	---	
25		---	---	8.0	7.0	12.0	---	---	---	---	---	
26		8.0	---	7.0	7.5	10.0	---	---	---	---	---	
27		---	---	9.0	7.0	9.5	---	---	---	---	---	
28		9.5	10.5	7.0	8.0	---	---	---	---	---	---	
29		---	10.0	---	---	10.5	---	20.0	---	---	---	
30		---	7.5	5.0	---	9.5	---	---	---	---	---	
31		---	7.5	8.0	---	8.5	---	---	---	---	---	
MONTH		---	---	---	---	---	---	---	---	---	---	

11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	10	2	.05	20	4	.22	6840	948	21000
2	9.1	2	.05	17	4	.18	3250	216	1900
3	8.2	2	.04	16	3	.13	2230	92	554
4	7.4	2	.04	15	3	.12	1740	64	301
5	7.4	2	.04	800	30	65	1490	70	282
6	7.4	2	.04	1650	228	1020	1590	45	193
7	40	8	.86	1940	297	1560	1610	60	261
8	24	6	.39	1540	190	790	1450	42	164
9	16	5	.22	3780	723	15500	1080	32	93
10	12	5	.16	5940	1010	19200	849	22	50
11	11	3	.09	10000	1190	34900	1170	52	188
12	9.6	2	.05	6440	769	13800	1230	31	87
13	20	4	.22	4440	1010	13200	3320	425	4120
14	33	5	.45	3940	860	9150	2430	150	984
15	27	4	.29	3140	248	2100	1730	86	402
16	11	3	.09	4600	196	2430	1390	46	173
17	9.0	2	.05	3310	197	1760	2130	119	720
18	8.0	2	.04	3620	232	2270	1830	47	232
19	8.5	2	.05	2090	105	593	1350	19	69
20	8.0	2	.04	2030	124	680	1890	112	843
21	80	15	3.2	1830	67	331	5030	788	11400
22	600	20	32	1520	46	189	3300	370	3300
23	1400	60	227	1230	37	123	2210	230	1370
24	450	20	24	1470	68	270	1800	175	851
25	150	18	7.3	1220	42	138	1570	135	572
26	85	10	2.3	1080	45	131	1520	122	549
27	62	9	1.5	1090	32	94	2490	253	2110
28	47	8	1.0	1350	45	164	3140	238	2160
29	35	7	.66	2390	205	1460	6090	764	15700
30	27	5	.36	6600	1310	27500	3030	138	1130
31	23	5	.31	---	---	---	2110	94	536
MONTH	3245.6	---	302.89	79108	---	149418.65	72889	---	72294

	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	1570	61	259	1410	147	560	6450	1960	35700
2	1180	40	127	943	56	143	4110	741	8520
3	964	35	91	746	32	64	2700	450	3280
4	796	30	64	646	22	38	1940	173	906
5	724	25	49	569	14	22	1570	85	360
6	667	23	41	501	10	14	1450	96	376
7	589	20	32	453	9	11	1770	114	545
8	527	17	24	422	8	9.1	1410	70	266
9	479	15	19	392	8	8.5	1200	55	178
10	437	13	15	369	8	8.0	1090	64	188
11	407	11	12	345	8	7.5	2280	437	2960
12	825	65	177	360	15	15	2660	440	3160
13	2730	280	2420	360	11	11	2190	200	1180
14	5310	956	18200	314	8	6.8	1670	104	469
15	14300	2410	111000	293	7	5.5	1330	75	269
16	30700	5050	426000	437	63	82	1080	65	190
17	10600	2210	71900	410	24	27	923	55	137
18	5540	1470	23600	1700	524	5310	806	44	96
19	5140	1210	18500	5470	1250	21900	676	32	58
20	2990	480	3880	2090	288	1630	597	22	35
21	2110	230	1310	1670	150	676	527	17	24
22	1570	133	564	1410	102	388	469	12	15
23	1240	82	275	1120	57	172	431	11	13
24	1020	43	118	995	40	107	398	11	12
25	858	40	93	888	33	79	469	16	20
26	737	33	66	1260	57	178	428	11	13
27	646	27	47	1010	47	128	1130	299	1770
28	573	21	32	7770	2490	78600	2390	400	2580
29	512	18	25	---	---	---	16300	3410	229000
30	459	20	25	---	---	---	15300	3140	169000
31	943	126	448	---	---	---	4500	1050	12800
MONTH	97143	---	679413	34353	---	110200.4	80244	---	474120

11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	8410	2650	63900	253	5	3.4	60	1	.16
2	4360	1100	13000	239	5	3.2	57	1	.15
3	2710	365	2670	227	5	3.1	54	1	.15
4	1940	218	1140	212	4	2.3	53	1	.14
5	1660	175	784	201	3	1.6	51	1	.14
6	1310	101	357	194	3	1.6	50	1	.14
7	1020	64	176	188	3	1.5	48	1	.13
8	893	52	125	179	3	1.5	45	1	.12
9	1030	68	189	168	3	1.4	43	1	.12
10	953	95	244	157	3	1.3	40	1	.11
11	810	56	122	150	3	1.2	38	1	.10
12	710	29	56	144	3	1.2	35	1	.09
13	625	19	32	137	2	.74	34	1	.09
14	565	17	26	131	2	.71	32	1	.09
15	505	16	22	126	2	.68	32	1	.09
16	462	17	21	122	3	.99	31	1	.08
17	431	12	14	144	4	1.6	30	1	.08
18	483	16	21	161	7	3.0	30	1	.08
19	434	12	14	153	7	2.9	35	1	.09
20	383	10	10	126	5	1.7	48	2	.26
21	358	9	8.7	112	5	1.5	39	4	.42
22	339	8	7.3	104	4	1.1	32	3	.26
23	336	7	6.4	98	4	1.1	29	3	.23
24	329	7	6.2	92	3	.75	28	3	.23
25	352	8	7.6	86	3	.70	25	3	.20
26	380	9	9.2	82	2	.44	24	3	.19
27	342	8	7.4	78	2	.42	23	3	.19
28	305	7	5.8	74	1	.20	23	3	.19
29	279	6	4.5	71	1	.19	22	4	.24
30	265	5	3.6	66	1	.18	20	4	.22
31	---	---	---	64	1	.17	---	---	---
MONTH	32979	---	82989.7	4339	---	42.37	1111	---	4.78

	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	19	4	.21	8.8	1	.02	5.1	1	.01
2	18	4	.19	8.8	1	.02	4.9	1	.01
3	17	3	.14	8.5	1	.02	4.9	1	.01
4	16	3	.13	8.5	1	.02	4.9	1	.01
5	16	3	.13	8.2	1	.02	4.9	1	.01
6	15	3	.12	8.2	1	.02	4.7	1	.01
7	15	2	.08	8.2	3	.07	4.7	1	.01
8	18	3	.15	8.8	3	.07	4.7	1	.01
9	60	6	.97	8.5	3	.07	4.7	1	.01
10	36	4	.39	8.2	3	.07	4.7	1	.01
11	25	3	.20	8.2	3	.07	4.4	1	.01
12	22	3	.18	8.2	2	.04	4.4	1	.01
13	20	3	.16	7.6	2	.04	4.4	1	.01
14	18	2	.10	7.6	2	.04	4.4	1	.01
15	17	2	.09	7.3	2	.04	4.2	1	.01
16	16	1	.04	7.3	2	.04	4.2	1	.01
17	15	1	.04	6.7	2	.04	4.2	1	.01
18	15	1	.04	6.7	2	.04	4.2	1	.01
19	14	1	.04	6.7	2	.04	3.9	1	.01
20	14	1	.04	6.7	2	.04	3.9	1	.01
21	13	1	.04	6.4	2	.03	3.9	1	.01
22	13	1	.04	6.2	2	.03	3.9	1	.01
23	12	1	.03	6.2	2	.03	3.7	1	.01
24	12	1	.03	6.2	2	.03	3.7	1	.01
25	11	1	.03	5.6	2	.03	3.7	1	.01
26	11	1	.03	5.6	2	.03	3.7	1	.01
27	10	1	.03	5.6	2	.03	3.6	1	.01
28	9.8	1	.03	5.4	2	.03	3.6	1	.01
29	9.5	1	.03	5.1	1	.01	3.4	1	.01
30	9.1	1	.02	5.1	1	.01	3.4	1	.01
31	9.1	1	.02	5.1	1	.01	---	---	---
MONTH	525.5	---	3.77	220.2	---	1.10	127.0	---	.30
YEAR	406284.3		1568790.96						

11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	3245.60	302.89	73	376
NOVEMBER ...	79108.00	149418.65	45600	195000
DECEMBER ...	72889.00	72294.00	22700	95000
JANUARY 1974	97143.00	679413.00	167000	846000
FEBRUARY ...	34353.00	110200.40	14200	124000
MARCH	80244.00	474120.00	90600	565000
APRIL	32979.00	82989.70	14400	97400
MAY	4339.00	42.37	0	42
JUNE	1111.00	4.78	0	5
JULY	525.50	3.77	0	4
AUGUST	220.20	1.10	0	1
SEPTEMBER ..	127.00	0.30	0	0
TOTAL	406284.30	1568790.96	354573	1922828

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
06...	1330	10.5	1170	164	518	--	--	--	--	--	--
10...	1600	--	3330	690	6200	--	--	--	--	--	--
11...	1530	--	10300	1170	32500	23	33	44	57	71	84
14...	0910	9.0	3690	973	9690	16	24	30	40	51	--
14...	1700	9.5	3700	711	7100	21	29	41	54	68	--
17...	1745	10.5	3400	265	2430	--	--	--	--	--	--
DEC.											
11...	1350	7.5	1510	131	534	46	58	69	77	81	--
JAN.											
12...	1615	7.0	1090	119	350	--	--	--	--	--	--
13...	1130	7.5	3840	537	5570	39	50	62	74	86	--
15...	1115	9.5	9670	1320	34500	--	--	--	--	--	76
16...	1225	9.5	34800	4600	432000	26	34	42	55	68	80
16...	1845	9.5	28000	4980	376000	--	--	--	--	--	72
17...	1330	9.5	8500	1910	43800	--	--	--	--	--	75
18...	1235	10.0	5210	1370	19300	21	28	37	47	59	68
22...	1120	5.0	1570	131	555	--	--	--	--	--	--
MAR.											
01...	1745	8.0	6990	2050	38700	--	--	--	--	--	55
04...	1430	7.5	1850	143	714	--	--	--	--	--	--
29...	1235	10.5	14800	3870	155000	--	--	--	--	--	72
29...	1630	10.5	25300	5790	396000	19	24	32	41	53	64
29...	2200	10.5	33800	7840	715000	17	19	28	36	47	60
30...	1300	9.5	11900	2340	75200	--	--	--	--	--	74

11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.										
06...	46	--	49	--	57	--	77	--	93	100
10...	60	--	80	--	94	--	99	--	100	--
11...	--	94	--	100	--	--	--	--	--	--
14...	65	--	80	--	94	--	99	--	100	--
14...	82	--	94	--	100	--	--	--	--	--
17...	82	--	94	--	99	--	100	--	--	--
DEC.										
11...	84	--	86	--	90	--	95	--	99	100
JAN.										
12...	91	--	94	--	97	--	100	--	--	--
13...	94	--	99	--	100	--	--	--	--	--
15...	--	90	--	99	--	100	--	--	--	--
16...	--	92	--	99	--	100	--	--	--	--
16...	--	87	--	98	--	100	--	--	--	--
17...	--	86	--	97	--	100	--	--	--	--
18...	--	79	--	91	--	99	--	100	--	--
22...	78	--	84	--	91	--	98	--	100	--
MAR.										
01...	--	67	--	85	--	99	--	100	--	--
04...	73	--	78	--	91	--	100	--	--	--
29...	--	86	--	96	--	100	--	--	--	--
29...	--	79	--	94	--	99	--	100	--	--
29...	--	78	--	94	--	100	--	--	--	--
30...	--	86	--	96	--	100	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	STREAM WIDTH (FT)	SEDI-MENT BEDLOAD DIS-CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
NOV.							
06...	1345	10.5	6	1170	130	48	3
DEC.							
11...	1330	7.5	23	1390	118	59	4
JAN.							
09...	1230	2.0	17	476	101	1.4	--
APR.							
16...	1145	10.0	22	470	111	4.0	2
MAY							
29...	1430	20.0	--	69	93	.00	--
AUG.							
07...	1440	28.0	--	8.1	18	.00	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
NOV.							
06...	22	48	73	87	93	100	--
DEC.							
11...	11	29	57	79	91	96	100
JAN.							
09...	11	46	84	96	100	--	--
APR.							
16...	28	72	93	98	99	100	--
MAY							
29...	--	--	--	--	--	--	--
AUG.							
07...	--	--	--	--	--	--	--

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.

LOCATION.--Lat 40°02'14", long 123°33'10", in NW¼SW¼ sec.7, T.5 S., R.6 E., Humboldt County, at gaging station at bridge at Dry Creek, 3.2 mi (5.1 km) northwest of Island Mountain, and 3.8 mi (6.1 km) upstream from mouth.

DRAINAGE AREA.--22.6 mi^2 (58.5 km^2).

PERIOD OF RECORD.--Water temperatures: October 1972 to current year.
Sediment records: October 1972 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 8,020 mg/l Jan. 16; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 45,500 tons (41,300 tonnes) Jan. 16; minimum daily, 0 tons (0 tonnes) on many days.
Period of record:
Sediment concentrations: Maximum daily, 8,020 mg/l Jan. 16, 1974; minimum daily, 1 mg/l on many days in 1973.
Sediment discharge: Maximum daily, 45,500 tons (41,300 tonnes) Jan. 16, 1974; minimum daily, 0 tons (0 tonnes) on many days in 1973 and 1974.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	9.5	---	---	5.5	10.0	---	---	---	---	---
2	---	---	9.5	---	---	---	10.0	---	---	---	---	---
3	14.0	---	---	---	---	8.5	---	---	21.0	---	---	---
4	---	11.0	---	7.0	---	---	---	---	---	---	---	---
5	---	10.5	---	---	4.0	10.0	---	---	---	27.0	22.0	---
6	13.5	13.0	11.0	---	---	---	---	---	---	---	---	---
7	---	---	11.5	4.5	---	7.0	---	---	---	---	---	---
8	16.0	---	---	---	---	---	11.0	---	---	---	---	21.0
9	---	---	---	---	---	---	8.5	---	---	23.0	---	---
10	---	---	9.0	---	---	---	---	---	23.0	---	---	---
11	---	13.5	9.5	---	---	9.0	10.5	---	---	---	---	---
12	---	12.0	---	8.0	10.0	---	15.0	---	---	---	28.0	---
13	19.0	---	9.0	10.0	---	---	---	---	25.0	---	---	24.0
14	---	12.0	10.0	10.0	---	---	---	---	---	---	---	---
15	19.0	12.0	10.0	11.0	---	---	---	14.5	24.0	25.0	28.0	---
16	---	---	---	13.0	---	11.0	---	---	---	---	---	---
17	---	---	6.0	11.5	---	15.0	---	12.0	---	---	---	---
18	---	---	6.0	12.0	7.5	---	---	---	---	26.0	---	---
19	---	---	---	---	7.5	---	---	---	18.0	---	18.0	---
20	17.0	---	---	9.0	---	---	---	---	---	---	---	---
21	---	---	9.5	---	7.0	---	---	---	---	---	---	24.0
22	16.0	---	---	6.0	---	14.5	16.0	---	---	---	---	---
23	---	---	---	---	---	---	---	---	25.0	---	24.0	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	4.5	---	9.0	---	---	---	24.5	---	---	---
26	---	---	---	---	9.0	13.5	10.0	---	---	---	29.0	---
27	13.5	10.0	10.0	11.0	---	---	---	---	25.5	---	---	---
28	---	---	---	---	9.0	11.0	---	---	---	---	---	---
29	---	---	---	---	---	11.0	---	---	---	---	---	---
30	---	10.5	10.5	9.0	---	10.0	18.0	---	---	---	24.0	---
31	---	---	---	8.5	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	.98	1	0	4.7	1	.01	660	1110	1980
2	.90	1	0	4.4	1	.01	365	375	370
3	.90	2	0	4.2	1	.01	254	121	83
4	.83	1	0	5.2	4	.06	186	56	28
5	.83	1	0	331	2890	3850	143	29	11
6	1.4	1	0	174	320	150	118	24	7.6
7	3.0	1	.01	174	200	94	124	37	13
8	2.1	1	.01	126	160	54	112	18	5.4
9	2.0	1	.01	444	1860	3240	97	12	3.1
10	1.7	1	0	570	2090	3770	86	8	1.9
11	1.5	1	0	871	2680	6840	145	140	59
12	1.4	1	0	535	1430	2190	177	132	134
13	1.2	1	0	440	543	668	386	340	387
14	1.2	1	0	329	420	373	314	178	151
15	1.1	1	0	233	310	208	227	88	54
16	1.1	1	0	306	195	161	177	43	21
17	1.1	1	0	272	165	131	250	160	115
18	1.1	1	0	310	115	96	195	50	26
19	1.1	1	0	183	53	26	155	12	5.0
20	1.1	1	0	171	139	68	221	142	123
21	1.8	7	.05	128	50	17	473	692	917
22	58	128	22	112	44	13	321	230	199
23	155	146	78	94	38	9.6	233	110	69
24	39	23	2.4	91	42	10	186	72	36
25	20	8	.43	81	36	7.9	147	42	17
26	12	3	.10	72	32	6.2	136	42	15
27	9.1	1	.02	68	28	5.1	155	62	26
28	7.5	1	.02	94	65	16	160	39	17
29	6.4	1	.02	192	318	222	310	548	484
30	5.6	1	.02	712	1530	3010	208	338	190
31	5.2	1	.01	---	---	---	163	230	101
MONTH	346.14	---	103.10	7131.5	---	25235.89	6884	---	5649.0

	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	134	150	54	338	518	497	646	1870	3780
2	110	85	25	317	255	218	487	1140	1500
3	97	38	10	251	170	115	370	690	689
4	86	14	3.3	225	95	58	213	350	201
5	78	11	2.3	205	57	32	145	190	74
6	71	8	1.5	178	46	22	119	160	51
7	61	6	.99	209	42	24	116	160	50
8	58	5	.78	213	39	22	96	155	40
9	53	5	.72	175	37	17	78	150	32
10	48	5	.65	145	34	13	73	170	34
11	47	5	.63	136	31	11	233	1190	935
12	110	117	40	165	48	22	292	788	638
13	321	458	436	142	29	11	225	200	122
14	732	3460	9140	121	22	7.2	165	125	56
15	1410	4870	20300	60	20	3.2	130	86	30
16	2070	8020	45500	139	30	11	103	61	17
17	906	3600	8810	121	22	7.2	82	43	9.5
18	868	3160	7850	423	1440	2760	67	33	6.0
19	689	1650	3070	1120	1230	3720	60	27	4.4
20	370	705	704	761	695	1430	53	23	3.3
21	327	415	366	789	868	1930	45	21	2.6
22	441	236	281	630	405	689	41	19	2.1
23	387	160	167	522	210	296	33	18	1.6
24	260	110	77	435	125	147	33	17	1.5
25	242	75	49	370	75	75	33	17	1.5
26	221	52	31	441	200	238	26	16	1.1
27	193	40	21	370	95	95	78	118	75
28	274	178	161	1230	3690	16200	269	427	344
29	193	125	65	---	---	---	1660	5810	31100
30	142	98	38	---	---	---	946	4600	14100
31	251	566	504	---	---	---	622	3430	6400
MONTH	11250	---	97709.87	10231	---	28670.6	7539	---	60301.6

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	770	3790	8510	14	9	.34	5.2	4	.06
2	242	1180	771	13	8	.28	4.9	4	.05
3	278	780	585	12	8	.26	4.5	4	.05
4	201	260	141	13	8	.28	4.5	4	.05
5	168	200	91	12	8	.26	4.5	4	.05
6	127	150	51	11	7	.21	4.9	6	.08
7	96	97	25	11	7	.21	4.5	5	.06
8	84	76	17	12	7	.23	4.5	5	.06
9	105	131	39	11	7	.21	4.2	5	.06
10	78	78	16	10	6	.16	4.2	5	.06
11	64	52	9.0	9.7	6	.16	3.8	5	.05
12	55	33	4.9	10	6	.16	3.5	5	.05
13	48	30	3.9	9.1	5	.12	3.5	6	.06
14	42	28	3.2	9.1	5	.12	3.5	5	.05
15	37	26	2.6	8.5	4	.09	3.5	10	.09
16	34	24	2.2	8.5	4	.09	3.5	5	.05
17	31	22	1.8	10	7	.19	3.5	4	.04
18	29	19	1.5	9.1	6	.15	3.5	4	.04
19	26	17	1.2	8.0	5	.11	6.1	15	.25
20	24	15	.97	7.5	5	.10	5.2	12	.17
21	22	12	.71	7.0	5	.09	4.2	10	.11
22	21	10	.57	7.0	5	.09	3.8	9	.09
23	20	10	.54	7.0	5	.09	3.5	8	.08
24	20	10	.54	6.5	5	.09	3.5	5	.05
25	19	10	.51	6.5	5	.09	3.3	4	.04
26	20	10	.54	6.1	4	.07	3.3	4	.04
27	18	10	.49	6.1	4	.07	3.0	3	.02
28	17	9	.41	5.6	4	.06	2.7	3	.02
29	16	9	.39	5.6	4	.06	2.7	3	.02
30	15	9	.36	5.6	4	.06	2.7	3	.02
31	---	---	---	5.2	4	.06	---	---	---
MONTH	2727	---	10282.33	276.7	---	4.56	118.2	---	1.92

	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	2.5	2	.01	.80	3	.01	.60	15	.02
2	2.5	2	.01	.80	3	.01	.52	14	.02
3	2.3	2	.01	.80	3	.01	.52	12	.02
4	2.3	2	.01	.70	3	.01	.52	10	.01
5	2.1	5	.03	1.1	15	.04	.52	8	.01
6	2.1	4	.02	1.3	15	.05	.52	8	.01
7	2.1	3	.02	1.1	12	.04	.44	8	.01
8	3.5	8	.08	.92	10	.02	.44	8	.01
9	3.5	6	.06	.92	10	.02	.37	8	.01
10	2.7	5	.04	.80	8	.02	.37	7	.01
11	2.5	5	.03	.70	8	.02	.37	7	.01
12	2.3	4	.02	.70	16	.03	.37	6	.01
13	2.1	3	.02	.70	12	.02	.37	6	.01
14	2.1	3	.02	.70	8	.02	.37	6	.01
15	1.9	2	.01	.80	10	.02	.37	6	.01
16	1.9	4	.02	.80	8	.02	.37	6	.01
17	1.9	4	.02	.80	7	.02	.37	6	.01
18	1.9	5	.03	.80	6	.01	.37	6	.01
19	1.9	5	.03	.80	19	.04	.37	6	.01
20	1.9	5	.03	.80	16	.03	.37	6	.01
21	1.7	5	.02	.70	18	.03	.37	15	.01
22	1.5	4	.02	.80	18	.04	.37	6	.01
23	1.3	4	.01	.80	18	.04	.37	4	0
24	1.3	4	.01	.80	16	.03	.37	2	0
25	1.3	4	.01	.80	14	.03	.37	2	0
26	1.3	4	.01	.70	14	.03	.37	2	0
27	1.3	4	.01	.52	12	.02	.44	3	0
28	1.2	3	.01	.52	10	.01	.44	2	0
29	1.1	3	.01	.52	8	.01	.48	3	0
30	.92	3	.01	.52	16	.02	.52	3	0
31	.80	3	.01	.60	16	.03	---	---	---
MONTH	59.72	---	.65	24.12	---	.75	12.62	---	.25
YEAR	46600.00		227960.52						

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BED LOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	346.14	103.10	55	158
NOVEMBER ...	7131.50	25235.69	6630	31900
DECEMBER ...	6884.00	5649.00	4760	10400
JANUARY 1974	11250.00	97709.87	13000	111000
FEBRUARY ...	10231.00	28670.60	11100	39800
MARCH	7539.00	60301.60	7730	68000
APRIL	2727.00	10282.33	1700	12000
MAY	276.70	4.56	0	5
JUNE	118.20	1.92	0	2
JULY	59.72	0.65	0	1
AUGUST	24.12	0.75	0	1
SEPTEMBER ..	12.62	0.25	0	0
TOTAL	46600.00	227960.52	44975	273267

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
05...	1200	10.5	811	5650	12400	28	32	37	53	65	77
11...	1345	13.5	1080	3750	10900	16	25	35	45	56	68
14...	1430	12.0	310	396	331	29	40	55	70	81	--
14...	1640	12.0	290	373	292	29	42	54	68	78	86
DEC.											
01...	1405	9.5	613	1040	1720	21	30	41	53	64	--
21...	1115	9.5	449	751	910	25	34	41	56	67	74
JAN.											
12...	1430	8.0	130	142	50	--	--	--	--	--	--
16...	1200	13.0	2680	11400	82500	30	38	45	58	72	81
17...	1620	11.5	698	2680	5050	28	36	44	60	73	82
18...	1730	12.0	1260	5200	17700	32	33	49	64	80	91
31...	1345	8.5	417	1550	1750	--	--	--	--	--	96
FEB.											
28...	1000	8.0	2120	7070	40500	29	30	42	55	68	80
28...	1700	9.0	1050	3460	9810	24	34	47	60	73	82
MAR.											
01...	1330	5.5	751	2730	5540	28	39	52	66	79	88
03...	1420	8.5	317	643	550	30	39	51	63	71	--
05...	1630	10.0	133	161	58	39	53	66	81	90	95
29...	1200	11.0	1560	4160	17500	24	34	45	59	71	80
29...	1445	11.0	2150	7940	46100	26	31	45	57	71	81
APR.											
11...	1635	10.5	62	44	7.4	--	--	--	--	--	--

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.										
05...	--	88	--	97	--	100	--	--	--	--
11...	--	80	--	93	--	100	--	--	--	--
14...	92	--	98	--	99	--	100	--	--	--
14...	--	91	--	97	--	100	--	--	--	--
DEC.										
01...	72	--	84	--	95	--	100	--	--	--
21...	--	82	--	90	--	97	--	100	--	--
JAN.										
12...	83	--	90	--	96	--	100	--	--	--
16...	--	94	--	99	--	100	--	--	--	--
17...	--	92	--	97	--	99	--	100	--	--
18...	--	99	--	100	--	--	--	--	--	--
31...	--	99	--	100	--	--	--	--	--	--
FEB.										
28...	--	92	--	98	--	100	--	--	--	--
28...	--	93	--	100	--	--	--	--	--	--
MAR.										
01...	--	97	--	100	--	--	--	--	--	--
03...	76	--	80	--	82	--	83	--	85	88
05...	--	98	--	99	--	100	--	--	--	--
29...	--	91	--	99	--	100	--	--	--	--
29...	--	93	--	99	--	100	--	--	--	--
APR.										
11...	94	--	98	--	100	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	STREAM WIDTH (FT)	SEDI-MENT BEDLOAD DIS-CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
NOV.								
14...	1615	12.0	21	294	64	256	1	4
DEC.								
21...	1130	9.5	21	449	65	549	4	9
MAR.								
05...	1645	10.0	19	132	72	42	1	4
APR.								
11...	1645	10.5	10	62	58	1.7	1	3

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
NOV.							
14...	12	30	53	73	99	100	--
DEC.							
21...	18	25	33	47	83	100	--
MAR.							
05...	11	25	44	61	81	88	100
APR.							
11...	6	15	40	62	67	100	--

11475000 EEL RIVER AT FORT SEWARD, CALIF.

LOCATION.--Lat 40°13'05", long 123°37'54", in SE¼NE¼ sec.8, T.3 S., R.5 E., Humboldt County, at gaging station at 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 mi^2 (5,457 km^2).

PERIOD OF RECORD.--Chemical analyses: Water years 1972 to current year (partial-record station).
Water temperatures: November 1960 to current year.
Sediment records: October 1965 to current year.
Turbidity: Water years 1966-68, 1971-73 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 28.5°C Aug. 2, 4; minimum, 3.5°C Jan. 10.
Sediment concentrations: Maximum daily, 6,720 mg/l Jan. 16; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 4,160,000 tons (3,770,000 tonnes) Jan. 16; minimum daily, 0.08 ton (0.07 tonne) on several days during September.
Period of record:
Water temperatures: Maximum (1960-64, 1965-71, 1972 to current year), 34.5°C June 25, 1968; minimum (1960-65, 1965 to current year), freezing point Dec. 14-17, 1968.
Sediment concentrations: Maximum daily, 13,900 mg/l Jan. 4, 1966; minimum daily, 1 mg/l on many days in 1965-74.
Sediment discharge: Maximum daily, 4,270,000 tons (3,870,000 tonnes) Jan. 4, 1966; minimum daily, 0.06 ton (0.05 tonne) Sept. 23, 24, 1970.

REMARKS.--No thermograph record Aug. 29 to Sept. 3, recorder stopped.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
NOV.							
08...	1030	18200	.07	.00	.07	1.7	.00
JAN.							
16...	0930	243000	.05	.01	.06	1.1	4.7
FEB.							
20...	1000	16000	.01	.01	.02	.43	.43
MAR.							
26...	1000	5940	.01	.00	.01	.07	.21

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.						
08...	.13	.07	.03	121	12.5	14
JAN.						
16...	5.8	4.9	.02	89	10.0	21
FEB.						
20...	.86	.27	.27	121	7.5	6.0
MAR.						
26...	.28	.17	.02	152	11.0	2.0

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	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 HEPTACHLOR (UG/L)
NOV.										
08...	1030	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTACHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL PCB (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV.									
08...	.00	.00	.00	.00	.00	.0	.00	.00	.00

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
NOV.												
08...	1030	8	8	0	<10	10	0	150	0	50	50	0
JAN.												
16...	0930	36	36	0	10	10	0	860	0	300	300	0
FEB.												
20...	1000	6	6	0	10	9	1	80	0	<50	<49	1
MAR.												
26...	1000	1	1	0	<10	<10	0	0	0	50	50	0

DATE	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV.												
08...	310	310	5	500	500	0	.3	.1	.2	180	160	20
JAN.												
16...	470	470	5	200	200	2	1.0	1.0	.0	810	790	20
FEB.												
20...	50	44	6	<100	<95	5	.4	.4	.0	110	90	20
MAR.												
26...	50	46	4	<100	<96	4	.0	.0	.0	80	70	10

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	18.5	15.0	12.5	10.0	8.5	7.5	6.0	8.0	7.5	7.0	7.0
2	20.0	17.5	14.5	12.5	8.5	8.5	6.5	5.0	8.0	6.5	7.0	6.0
3	19.5	16.5	12.5	11.5	8.5	8.0	5.5	4.5	8.0	6.5	7.5	6.0
4	20.0	16.5	11.5	11.0	8.5	8.0	5.5	4.5	8.0	7.0	8.0	6.0
5	19.5	16.5	11.0	10.0	9.0	8.0	5.5	5.0	7.5	6.5	9.0	7.0
6	17.0	16.5	10.5	10.0	10.0	9.0	6.0	5.0	7.0	5.5	9.0	8.0
7	18.0	15.5	11.0	10.5	11.0	10.0	6.5	4.5	6.5	6.0	8.0	4.5
8	16.5	15.0	13.0	11.0	11.5	10.5	5.0	4.0	7.0	5.5	6.5	5.5
9	18.0	15.5	13.0	10.0	10.5	7.5	4.5	4.0	8.0	6.0	8.0	6.0
10	17.5	15.0	13.0	11.0	9.0	7.5	4.0	3.5	8.0	6.0	8.5	7.0
11	18.0	16.0	13.0	12.5	8.5	8.0	5.0	4.0	8.0	6.5	8.5	7.0
12	18.5	16.5	13.0	12.5	8.5	8.0	6.0	5.0	7.0	6.5	9.0	7.5
13	19.0	17.0	12.5	11.0	8.5	8.0	8.5	6.0	7.5	6.5	10.5	8.0
14	19.5	17.5	11.0	10.0	9.0	8.5	8.5	7.5	8.0	6.5	11.0	9.0
15	19.5	17.5	10.5	10.0	8.5	8.5	9.0	8.5	8.5	6.5	11.0	9.5
16	19.5	17.5	11.0	10.0	9.0	8.5	9.5	9.0	8.0	7.5	12.0	10.0
17	19.5	17.5	10.5	9.5	9.5	8.5	10.0	9.5	8.0	7.5	12.5	10.5
18	19.5	18.0	9.5	9.0	8.5	8.0	11.5	9.5	7.5	7.0	12.0	10.5
19	19.5	18.0	10.5	8.5	8.0	7.0	11.5	9.5	7.5	7.0	12.0	10.0
20	18.5	17.5	9.0	8.0	9.0	8.5	10.0	9.0	7.5	6.0	13.0	10.0
21	18.5	17.5	9.0	8.0	9.0	8.5	9.5	8.0	6.0	5.5	12.5	11.0
22	18.0	17.5	8.5	8.0	9.0	8.5	8.5	7.5	6.0	5.5	12.5	11.0
23	17.5	13.0	8.5	8.0	9.0	8.5	7.5	7.0	6.5	5.5	13.0	11.0
24	13.0	11.0	9.5	8.0	9.0	8.5	8.0	7.5	7.0	5.5	13.0	12.0
25	11.0	11.0	8.0	8.0	9.5	9.0	8.5	7.5	7.0	6.0	13.0	11.0
26	13.5	11.0	8.5	8.0	10.0	9.0	7.5	7.0	7.5	6.5	11.5	10.5
27	14.0	11.5	9.0	8.0	9.5	8.5	7.0	6.5	7.5	6.5	10.5	9.0
28	14.5	11.5	10.0	9.0	9.5	9.0	7.5	6.5	7.0	6.0	10.0	9.5
29	14.5	13.0	10.5	10.0	10.0	9.0	7.5	7.0	---	---	11.0	9.0
30	14.5	12.0	10.5	10.0	10.0	9.5	8.5	6.5	---	---	10.0	8.5
31	14.5	11.5	---	---	9.5	7.0	8.5	6.0	---	---	10.0	8.5
MONTH	21.0	11.0	15.0	8.0	11.5	7.0	11.5	3.5	8.5	5.5	13.0	4.5

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.0	17.5	15.5	21.0	17.5	24.5	23.0	28.0	25.0	---	---
2	9.5	9.0	16.5	14.5	21.5	19.0	24.5	22.0	28.5	25.0	---	---
3	9.5	9.0	17.0	14.0	22.0	19.5	25.0	22.0	28.0	25.0	---	---
4	11.0	10.0	17.0	14.5	21.0	19.0	25.5	22.5	28.5	25.0	26.0	22.0
5	10.5	9.5	18.5	16.0	21.0	19.5	25.5	22.5	27.0	25.5	26.0	22.0
6	11.0	9.5	18.5	15.5	22.0	20.0	24.5	23.0	28.0	25.0	25.0	23.5
7	12.0	10.0	19.0	16.5	22.0	19.0	23.0	22.0	28.0	24.5	25.5	23.0
8	11.5	10.0	19.0	16.5	21.0	18.0	22.0	21.0	28.0	24.0	25.5	22.0
9	10.5	9.5	18.0	16.0	21.0	18.5	23.0	20.5	27.5	23.5	25.0	22.0
10	10.5	8.5	18.0	15.0	22.5	19.5	22.0	21.5	27.5	24.5	25.0	22.0
11	12.0	9.0	18.5	15.0	23.5	21.0	22.5	21.5	27.5	24.0	25.0	20.5
12	13.5	10.5	17.5	15.5	24.0	23.0	24.0	22.0	27.5	23.0	24.0	20.5
13	14.0	11.5	17.5	14.5	24.0	22.5	24.0	22.0	26.5	23.0	24.0	20.5
14	14.5	11.5	17.5	14.0	23.5	22.0	24.5	22.0	26.5	22.0	24.5	20.5
15	14.0	11.5	17.5	14.5	23.0	22.0	24.0	22.5	26.5	22.5	23.0	20.0
16	15.0	11.5	17.5	14.5	22.5	21.0	24.0	22.0	26.5	22.0	24.0	20.5
17	14.5	12.5	16.5	13.5	22.0	20.0	25.5	22.5	26.0	22.5	24.0	20.0
18	14.0	11.5	15.0	13.5	23.0	21.5	26.0	23.5	26.0	22.5	24.0	20.5
19	12.0	10.5	15.0	13.5	23.0	21.5	26.5	24.0	26.0	21.5	24.0	20.5
20	14.0	10.5	16.5	14.0	22.0	20.5	26.5	24.0	26.0	21.5	23.5	20.0
21	16.0	12.5	17.5	14.5	22.5	21.5	26.5	24.0	25.5	21.5	23.0	19.5
22	15.5	13.5	17.5	15.0	23.0	22.0	26.0	23.5	26.0	22.0	23.5	19.5
23	14.0	13.0	18.5	16.5	23.0	22.0	26.0	23.5	26.0	23.0	23.5	19.5
24	13.5	11.5	19.0	16.5	23.0	22.0	26.5	23.5	26.5	22.5	23.0	20.0
25	11.5	9.5	19.5	17.5	23.0	21.0	27.0	24.0	26.5	22.5	23.5	19.0
26	12.5	9.5	20.5	18.5	23.0	21.0	28.0	25.0	27.0	23.5	22.5	18.5
27	13.5	11.5	21.5	19.0	22.5	21.0	27.5	25.0	26.0	23.0	22.5	18.5
28	15.5	12.0	21.0	18.5	24.0	21.0	28.0	25.0	26.0	22.5	21.5	18.5
29	16.0	13.5	21.0	17.5	25.0	22.5	28.0	25.5	---	---	22.0	18.5
30	17.0	15.0	20.0	17.0	25.5	23.5	28.0	25.0	---	---	22.0	18.5
31	---	---	20.0	17.0	---	---	28.0	25.0	---	---	---	---
MONTH	17.0	8.5	21.5	13.5	25.5	17.5	28.0	20.5	28.5	21.5	26.0	18.5

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	80	3	.65	373	20	20	63400	2300	394000
2	74	2	.40	344	17	16	33800	1200	110000
3	70	2	.38	332	14	13	21000	734	41600
4	68	1	.18	324	10	8.7	16000	592	25600
5	66	1	.18	6620	555	16600	12400	500	16700
6	69	1	.19	10900	350	10300	11500	534	16700
7	94	3	.76	10400	270	7580	10900	473	14100
8	194	6	3.1	15600	1100	48400	11600	409	13100
9	282	10	7.6	14500	1730	107000	9310	220	5530
10	239	5	3.2	34600	3900	380000	7660	150	3100
11	218	4	2.4	60700	4200	699000	7860	204	4330
12	159	3	1.3	60000	2780	455000	9520	280	7200
13	130	3	1.1	39900	1710	185000	17200	807	39200
14	115	3	.93	33100	1800	161000	17900	560	27100
15	105	2	.57	23200	1280	80200	13500	300	10900
16	106	2	.57	37000	3040	324000	10800	220	6420
17	105	2	.57	33900	1530	140000	12300	293	10300
18	94	1	.25	29800	1300	105000	13700	235	8690
19	94	1	.25	19400	660	34600	10500	186	5270
20	96	1	.26	16000	555	24000	10400	230	6460
21	103	4	1.1	14900	515	20700	28200	1490	121000
22	1660	71	588	11800	465	14800	29300	885	70000
23	8470	381	9670	9610	440	11400	19200	640	33200
24	5470	164	2420	8640	405	9450	15500	520	21800
25	2300	100	621	7100	365	7000	13300	350	12600
26	1500	70	283	6620	263	4700	11700	260	8210
27	978	45	119	6070	92	1510	16500	491	21700
28	712	40	77	7140	168	3240	20700	478	27100
29	581	35	55	11600	358	11200	32700	1640	165000
30	498	30	40	31800	1610	177000	27700	1000	74800
31	424	25	29	---	---	---	18800	550	27900
MONTH	25154	---	13927.94	562273	---	3038737.7	554850	---	1349610

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	14600	400	15800	12800	325	11300	44600	2720	331000
2	11500	275	8540	9970	165	4440	36700	1200	119000
3	9430	206	5240	7890	102	2170	23000	600	37300
4	8080	162	3530	6820	67	1230	16100	470	20400
5	7000	133	2510	6000	62	1000	12800	380	13100
6	6200	105	1760	5270	100	1420	11000	320	9500
7	5520	96	1430	4830	108	1410	11100	414	12400
8	4930	78	1040	4470	60	724	10200	340	9360
9	4400	66	784	4120	42	467	9970	315	8480
10	3940	68	723	3830	35	362	8100	285	6230
11	3520	60	570	3590	30	291	11500	1540	56200
12	5000	215	2900	3570	37	357	15300	1510	62800
13	13400	602	21900	4020	93	1020	14400	970	37700
14	25700	950	65900	3570	51	492	11400	500	15400
15	92900	4840	1210000	3110	25	210	9840	370	9830
16	231000	6720	4160000	3680	45	524	8930	300	7230
17	126000	3750	1280000	5410	50	730	8280	210	4690
18	62600	3030	523000	6600	119	3220	7830	240	5070
19	63900	3300	569000	27500	2820	236000	7310	240	4740
20	40600	2500	274000	15700	1270	53800	6620	188	3360
21	27900	1800	136000	11500	400	12400	6050	168	2740
22	20800	1250	70200	10700	430	12400	5700	143	2200
23	16600	700	31400	8380	260	5880	5310	115	1650
24	14300	500	19300	7160	120	2320	4930	105	1400
25	12400	400	13400	6310	70	1190	4750	125	1600
26	11000	370	11000	6230	110	1890	5780	225	3510
27	9660	330	8610	6750	185	3430	6180	260	4340
28	8590	295	6840	22100	2160	227000	14400	1740	69900
29	7720	247	5150	---	---	---	66400	5650	1460000
30	6880	210	3900	---	---	---	165000	4800	2140000
31	7840	269	6130	---	---	---	58300	3400	535000
MONTH	883910	---	8460557	221880	---	587677	627780	---	4996130

	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	67500	3800	693000	3140	54	458	1030	12	33
2	49200	2700	359000	3150	53	451	984	12	32
3	27600	2200	164000	3020	52	424	984	10	27
4	18800	1580	80200	2960	48	384	977	9	24
5	14600	755	29800	2870	47	364	923	7	17
6	12800	620	21400	2880	48	373	908	6	15
7	10100	510	13900	2980	52	418	923	6	15
8	8640	350	8160	3150	56	476	827	6	13
9	8760	390	9290	3010	53	431	729	6	12
10	8620	358	8330	2620	38	269	662	6	11
11	7270	242	4750	2340	32	202	616	6	10
12	6680	242	4360	2230	29	175	585	6	9.5
13	6430	185	3210	2100	28	159	560	6	9.1
14	6030	140	2280	1920	37	192	530	6	8.6
15	5660	143	2190	1820	26	128	494	6	8.0
16	5320	138	1980	1730	25	117	466	9	11
17	5000	125	1690	1660	24	108	443	8	9.6
18	4910	118	1560	1610	23	100	426	7	8.1
19	4720	115	1470	1520	22	90	431	10	12
20	4040	79	862	1440	19	74	454	10	12
21	3750	78	790	1310	16	57	460	9	11
22	3620	80	782	1210	14	46	420	8	9.1
23	3580	73	706	1170	14	44	376	8	8.1
24	3480	67	630	1170	13	41	350	7	6.6
25	3620	63	616	1170	14	44	330	6	5.3
26	3690	60	598	1250	14	47	310	6	5.0
27	3660	49	484	1380	18	67	289	5	3.9
28	3390	46	421	1440	20	78	279	5	3.8
29	2970	48	385	1370	18	67	273	5	3.7
30	2980	51	413	1260	16	54	263	8	5.7
31	---	---	---	1110	14	42	---	---	---
MONTH	317420	---	1417257	61990	---	5980	17302	---	359.1

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	243	6	3.9	102	2	.55	52	1	.14
2	229	4	2.5	99	2	.53	52	1	.14
3	224	4	2.4	99	2	.53	52	1	.14
4	215	3	1.7	99	2	.53	47	4	.51
5	205	3	1.7	99	4	1.1	44	1	.12
6	192	3	1.6	99	3	.80	44	1	.12
7	188	3	1.5	95	3	.77	44	1	.12
8	188	3	1.5	92	2	.50	42	1	.11
9	219	6	3.5	95	2	.51	39	1	.11
10	477	10	13	99	2	.53	39	1	.11
11	371	6	6.0	92	2	.50	37	1	.10
12	284	5	3.8	85	2	.46	34	1	.09
13	243	4	2.6	79	2	.43	34	2	.18
14	219	4	2.4	76	2	.41	34	1	.09
15	201	4	2.2	73	2	.39	34	1	.09
16	184	4	2.0	70	2	.38	34	1	.09
17	175	4	1.9	68	2	.37	32	1	.09
18	171	4	1.8	68	2	.37	32	1	.09
19	163	4	1.8	65	1	.18	32	1	.09
20	143	4	1.5	62	1	.17	32	1	.09
21	147	4	1.6	62	1	.17	32	1	.09
22	151	4	1.6	60	2	.32	32	1	.09
23	147	4	1.6	60	2	.32	30	1	.08
24	140	4	1.5	60	2	.32	30	1	.08
25	136	4	1.5	60	1	.16	28	1	.08
26	132	3	1.1	60	1	.16	28	1	.08
27	124	3	1.0	57	1	.15	28	1	.08
28	116	2	.63	54	1	.15	28	1	.08
29	113	2	.61	52	2	.28	28	1	.08
30	109	1	.29	52	1	.14	28	2	.15
31	106	1	.29	52	1	.14	---	---	---
MONTH	5955	---	71.02	2345	---	12.32	1082	---	3.51
YEAR	3281941		19870322.59						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	25154.00	13927.94	2470	16400
NOVEMBER ...	562273.00	3038737.70	177000	3220000
DECEMBER ...	554850.00	1349610.00	165000	1510000
JANUARY 1974	883910.00	8460557.00	260000	8720000
FEBRUARY ...	221880.00	587677.00	46100	634000
MARCH	627780.00	4996130.00	181000	5180000
APRIL	317420.00	1417257.00	81400	1500000
MAY	61990.00	5980.00	1780	7760
JUNE	17302.00	359.10	0	359
JULY	5955.00	71.02	0	71
AUGUST	2345.00	12.32	0	12
SEPTEMBER ..	1082.00	3.51	0	4
TOTAL	3281941.00	19870322.59	914750	20788606

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
NOV.											
09...	1800	10.0	17200	2730	127000	17	17	22	31	41	56
10...	1530	11.0	27800	3110	233000	14	15	21	29	39	54
13...	1645	11.0	37700	1660	169000	21	25	34	45	57	69
15...	1900	10.0	21900	1180	69800	8	15	19	26	35	--
16...	2130	10.0	44400	2770	332000	13	18	26	34	45	58
17...	1020	10.0	30400	1470	121000	10	16	22	29	36	47
DEC.											
13...	0555	--	15600	487	20500	44	60	78	95	99	--
20...	1430	8.5	9900	181	4840	36	46	54	65	75	--
JAN.											
17...	0550	--	157000	4030	1710000	17	26	38	55	74	89
18...	1030	10.0	57500	2880	447000	23	33	44	56	68	79
19...	1430	11.0	63300	3300	564000	21	29	39	51	63	73
FEB.											
27...	1545	7.5	6580	188	3340	37	50	62	73	82	--
MAR.											
07...	1515	8.0	11300	558	17000	42	54	62	70	78	--
20...	1730	13.0	6560	188	3330	--	--	--	--	--	--
24...	1700	--	4930	107	1420	--	--	--	--	--	--
29...	1430	11.0	66200	8250	1470000	18	19	27	37	49	63
29...	2030	10.0	157000	8420	3570000	21	26	39	51	64	78
30...	1000	10.0	190000	4620	2370000	30	41	55	67	79	88
APR.											
01...	1930	10.0	80600	4600	1000000	16	22	30	40	53	68
10...	1515	9.0	8340	320	7210	35	47	60	73	82	89
MAY											
14...	1235	14.5	1920	32	166	--	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.										
09...	--	76	--	93	--	100	--	--	--	--
10...	--	70	--	93	--	100	--	--	--	--
13...	--	80	--	90	--	97	--	100	--	--
15...	47	--	60	--	78	--	90	--	97	100
16...	--	74	--	94	--	100	--	--	--	--
17...	--	62	--	83	--	98	--	100	--	--
DEC.										
13...	99	--	100	--	--	--	--	--	--	--
20...	80	--	85	--	91	--	97	--	100	--
JAN.										
17...	--	99	--	100	--	--	--	--	--	--
18...	--	92	--	94	--	100	--	--	--	--
19...	--	86	--	94	--	99	--	100	--	--
FEB.										
27...	85	--	92	--	97	--	98	--	100	--
MAR.										
07...	83	--	88	--	96	--	99	--	100	--
20...	88	--	93	--	99	--	100	--	--	--
24...	98	--	99	--	100	--	--	--	--	--
29...	--	85	--	99	--	100	--	--	--	--
29...	--	93	--	99	--	100	--	--	--	--
30...	--	96	--	100	--	--	--	--	--	--
APR.										
01...	--	85	--	96	--	100	--	--	--	--
10...	--	93	--	97	--	100	--	--	--	--
MAY										
14...	--	--	99	--	100	--	--	--	--	--

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	STREAM WIDTH (FT)	SEDI-MENT BEDLOAD DIS-CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
NOV. 13...	1515	11.0	6	36600	360	2860	5
FEB. 27...	1500	7.5	5	6600	274	1290	--
APR. 10...	1440	9.0	5	8380	266	1850	--
MAY 14...	1315	14.5	3	1920	226	67	1
JUNE 27...	0945	22.0	--	300	228	.00	--
JULY 24...	1400	26.5	--	132	194	.00	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
NOV. 13...	41	76	81	84	86	95	100
FEB. 27...	3	29	62	85	95	100	--
APR. 10...	9	59	88	95	99	100	--
MAY 14...	11	71	96	99	100	--	--
JUNE 27...	--	--	--	--	--	--	--
JULY 24...	--	--	--	--	--	--	--

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.

LOCATION.--Lat 40°14'14", long 123°38'05", in NW¼NE¼ sec.5, T.3 S., R.5 E., Humboldt County, at gaging station 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.

DRAINAGE AREA.--61.4 mi^2 (159.0 km^2).

PERIOD OF RECORD.--Water temperatures: October 1972 to current year.
Sediment records: October 1972 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 19,200 mg/l Jan. 16; minimum daily, 1 mg/l May 22, 23.
Sediment discharge: Maximum daily, 279,000 tons (253,000 tonnes) Jan. 16; minimum daily, 0.05 ton (0.05 tonne) Oct. 1, 2.
Period of record:
Sediment concentrations: Maximum daily, 19,200 mg/l Jan. 16, 1974; minimum daily, 1 mg/l May 22, 23, 1974.
Sediment discharge: Maximum daily, 279,000 tons (253,000 tonnes) Jan. 16, 1974; minimum daily, 0.05 ton (0.05 tonne) Oct. 1, 2, 1973.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	13.0	9.0	8.0	9.0	6.0	10.0	13.0	---	---		
2	19.0	---	8.0	5.0	9.0	5.0	10.0	14.0	---	---		
3	17.0	---	10.0	6.0	10.0	9.0	---	16.0	---	---		
4	---	---	10.0	7.0	10.0	---	---	15.0	18.0	---		
5	---	12.0	10.0	6.0	8.0	---	9.0	18.0	---	---		
6	---	---	12.0	5.0	9.0	---	10.0	20.0	---	---		
7	---	---	13.0	6.0	10.0	6.0	10.0	---	---	---		
8	15.0	11.5	12.0	6.0	11.0	9.0	---	20.0	---	21.0		
9	---	14.0	10.0	5.0	10.0	11.0	9.0	---	---	---		
10	---	---	10.0	5.0	---	9.0	---	---	---	---		
11	---	---	10.0	6.0	10.0	7.0	8.5	16.0	24.0	---		
12	---	14.0	10.0	8.0	7.0	8.0	---	16.0	---	---		
13	---	10.0	11.0	11.0	9.0	9.0	---	15.0	24.0	---		
14	---	10.5	10.0	11.0	11.0	10.0	---	17.5	---	---		
15	---	12.0	---	11.0	10.0	10.0	---	16.0	---	---		
16	---	13.0	---	10.0	9.0	10.5	---	---	22.0	---		
17	20.0	9.0	11.0	12.0	9.0	12.0	---	16.0	---	---		
18	---	9.0	---	12.0	8.0	15.0	10.0	---	---	---		
19	---	9.0	10.0	12.0	10.0	15.0	---	16.0	20.0	---		
20	---	10.0	9.0	10.0	6.5	15.0	---	---	---	---		
21	---	8.0	9.5	8.0	9.0	15.0	---	---	---	---		
22	14.0	8.0	---	8.0	9.0	16.0	---	16.0	---	---		
23	---	9.0	11.0	8.0	---	16.0	12.0	---	---	---		
24	---	9.0	10.0	9.0	8.0	17.0	10.0	18.0	---	24.0		
25	---	9.0	11.0	10.0	9.0	14.0	10.0	---	---	---		
26	---	---	12.0	8.0	9.0	13.0	13.0	18.0	---	---		
27	---	10.0	11.0	9.0	9.0	10.0	13.0	---	24.0	---		
28	---	12.0	10.0	9.0	9.0	8.0	17.0	---	---	---		
29	---	13.0	10.0	9.0	---	11.0	13.0	---	---	---		
30	---	12.0	8.0	9.0	---	10.0	12.0	18.0	---	---		
31	---	---	7.0	10.0	---	8.0	---	---	---	---		
MONTH	---	---	10.0	8.5	9.0	11.0	---	---	---	---		

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	10	2	.05	28	4	.30	1600	1270	6590
2	10	2	.05	25	4	.27	1000	560	1810
3	10	4	.11	22	4	.24	640	309	534
4	9.6	4	.10	33	6	.53	410	219	242
5	9.6	4	.10	1300	1180	5360	230	160	99
6	22	7	.42	1010	647	1850	320	123	106
7	42	10	1.1	878	749	1960	450	185	225
8	24	8	.52	681	870	1600	370	115	115
9	20	6	.32	1500	1450	8950	295	68	54
10	17	4	.18	1990	3700	19900	240	52	34
11	16	4	.17	3680	8000	79500	275	130	97
12	15	4	.16	1780	3100	17900	310	80	67
13	15	4	.16	1340	2840	12300	620	240	482
14	14	3	.11	1240	3250	10900	450	180	219
15	13	3	.11	770	1220	2540	330	100	89
16	13	3	.11	1060	1030	2650	560	300	545
17	13	3	.11	781	420	886	1000	600	1940
18	11	3	.09	548	300	444	580	170	266
19	11	3	.09	346	240	224	396	75	80
20	12	3	.10	404	243	265	892	370	1160
21	21	20	1.1	379	159	163	1370	1150	5160
22	174	672	366	300	139	113	838	400	1090
23	548	503	791	271	140	102	572	120	185
24	185	250	125	307	92	76	443	110	132
25	109	100	29	250	73	49	433	107	125
26	66	40	7.1	214	55	32	387	191	239
27	51	25	3.4	185	100	50	838	407	1270
28	42	15	1.7	400	250	270	838	463	1260
29	38	10	1.0	1050	1050	2980	1620	1400	8140
30	33	6	.53	3000	1960	15900	797	320	689
31	30	4	.32	---	---	---	473	200	255
MONTH	1604.2	---	1330.31	25772	---	186965.3	19577	---	33299

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	346	132	123	278	1720	1370	1310	4070	16000
2	264	105	75	214	900	520	1080	1880	5480
3	232	86	54	202	710	387	838	1100	2490
4	196	72	38	208	600	337	838	880	1990
5	174	60	28	185	525	262	743	700	1400
6	152	52	21	169	462	211	838	1340	3530
7	136	47	17	153	460	190	643	1700	2950
8	121	43	14	142	410	157	238	815	524
9	100	40	11	135	305	111	147	375	149
10	90	32	7.8	125	232	78	126	312	106
11	117	22	6.9	115	198	61	473	1170	1700
12	179	143	79	102	360	99	1370	1510	6090
13	537	491	849	110	227	67	2110	700	3990
14	1910	2290	23800	100	188	51	1380	407	1520
15	3390	6390	61600	98	163	43	1180	288	918
16	5080	19200	279000	190	440	226	1000	210	567
17	3740	11800	119000	160	360	156	847	152	348
18	2050	8750	48400	482	2370	5530	732	130	257
19	1020	5800	16000	656	2900	5140	590	104	166
20	404	4100	4470	363	1340	1310	484	79	103
21	208	2920	1640	346	1170	1310	431	66	77
22	185	2020	1010	404	840	916	371	70	70
23	175	1730	817	424	560	641	324	64	56
24	165	1450	646	433	484	566	278	55	41
25	158	1060	452	414	400	447	346	93	87
26	150	960	389	572	850	1310	271	55	40
27	147	800	318	548	1150	1700	742	682	2570
28	143	740	286	1050	5570	16700	880	460	1090
29	140	680	257	---	---	---	4150	7330	108000
30	170	610	280	---	---	---	4540	7990	102000
31	220	2070	1440	---	---	---	2860	3970	31000
MONTH	22099	---	561128.7	8378	---	39896	32160	---	295309

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	3930	5130	55200	102	19	5.2	42	5	.57
2	2120	2600	14900	99	18	4.8	41	5	.55
3	1210	1700	5550	91	23	5.7	39	5	.53
4	883	1060	2530	88	18	4.3	39	5	.53
5	794	910	1950	83	22	4.9	41	5	.55
6	682	580	1070	86	14	3.3	39	4	.42
7	666	500	899	83	12	2.7	37	4	.40
8	616	390	649	78	12	2.5	36	4	.39
9	490	380	503	75	14	2.8	35	4	.38
10	347	300	281	73	10	2.0	34	3	.28
11	285	170	131	76	7	1.4	32	3	.26
12	254	130	89	72	6	1.2	31	3	.25
13	222	115	69	68	6	1.1	30	3	.24
14	200	100	54	68	8	1.5	31	3	.25
15	183	78	39	66	8	1.4	30	3	.24
16	190	77	40	64	6	1.0	29	3	.23
17	167	62	28	64	4	.69	31	3	.25
18	183	90	44	64	4	.69	31	3	.25
19	155	60	25	64	6	1.0	37	8	.80
20	148	42	17	58	4	.63	31	6	.50
21	143	40	15	58	2	.31	29	6	.47
22	127	40	14	55	1	.15	30	6	.49
23	127	43	15	53	1	.14	30	6	.49
24	120	40	13	52	6	.84	31	6	.50
25	125	37	12	54	6	.87	27	6	.44
26	131	45	16	49	6	.79	28	8	.60
27	120	44	14	47	5	.63	26	8	.56
28	118	38	12	45	4	.49	24	7	.45
29	120	25	8.1	44	4	.48	24	7	.45
30	106	28	8.0	42	3	.34	23	6	.37
31	---	---	---	41	3	.33	---	---	---
MONTH	14962	---	84195.1	2062	---	54.18	968	---	12.69

	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	22	6	.36	13	7	.25	11	6	.18
2	22	6	.36	13	4	.14	11	6	.18
3	22	6	.36	11	3	.09	9.8	6	.16
4	22	6	.36	11	3	.09	9.8	6	.16
5	20	6	.32	14	6	.23	9.8	6	.16
6	20	6	.32	13	5	.18	9.8	6	.16
7	19	6	.31	11	5	.15	9.8	6	.16
8	33	6	.53	11	4	.12	9.8	6	.16
9	31	6	.50	11	4	.12	9.4	6	.15
10	22	6	.36	10	4	.11	9.0	6	.15
11	20	6	.32	10	4	.11	9.0	7	.17
12	19	6	.31	10	4	.11	9.0	6	.15
13	18	6	.29	10	4	.11	8.6	4	.09
14	18	6	.29	10	4	.11	8.6	4	.09
15	16	8	.35	11	5	.15	8.6	10	.23
16	16	6	.26	11	6	.18	8.6	8	.19
17	16	6	.26	11	6	.18	7.9	7	.15
18	17	5	.23	11	6	.18	7.5	6	.12
19	17	5	.23	10	5	.14	7.5	5	.10
20	17	4	.18	10	5	.14	7.5	4	.08
21	17	4	.18	10	5	.14	7.5	4	.08
22	17	3	.14	10	4	.11	7.5	4	.08
23	17	3	.14	10	4	.11	7.9	4	.09
24	17	2	.09	10	4	.11	7.5	4	.08
25	17	4	.18	9.8	4	.11	7.5	4	.08
26	16	4	.17	9.4	5	.13	7.5	5	.10
27	16	4	.17	8.6	4	.09	7.9	5	.11
28	15	4	.16	8.6	4	.09	7.9	5	.11
29	13	3	.11	8.6	4	.09	8.3	5	.11
30	13	3	.11	9.8	6	.16	8.6	5	.12
31	13	3	.11	10	6	.16	---	---	---
MONTH	578	---	8.06	326.8	---	4.19	260.1	---	3.95
YEAR	128747.1		1202206.52						

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	1604.20	1330.31	1040	2360
NOVEMBER ...	25772.00	186965.34	56100	243000
DECEMBER ...	19577.00	33299.00	36900	70200
JANUARY 1974	22099.00	561128.70	42800	604000
FEBRUARY ...	8378.00	39896.00	10000	49900
MARCH	32160.00	295309.00	68900	364000
APRIL	14962.00	84195.10	26700	111000
MAY	2062.00	54.18	29	83
JUNE	968.00	12.69	0	13
JULY	578.00	8.06	0	8
AUGUST	326.80	4.19	0	4
SEPTEMBER ..	260.10	3.95	0	4
TOTAL	128747.10	1202206.52	242469	1444572

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	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. FALL DIAM. % FINER THAN .062 MM
OCT.												
22...	0715	14.0	--	168	1130	513	43	54	69	86	96	--
NOV.												
05...	1640	12.0	--	1520	1070	4390	34	47	60	75	86	95
09...	1630	14.0	--	2450	2600	17200	24	34	45	59	73	90
18...	1005	9.0	--	524	266	376	29	37	55	70	83	--
29...	1645	13.0	1050	--	1750	4960	29	39	51	65	80	92
DEC.												
01...	1640	9.0	1600	--	1110	4800	21	30	39	50	61	73
JAN.												
14...	1715	11.0	--	3610	2950	28800	32	41	52	65	79	90
16...	0830	10.0	--	5460	26200	386000	20	25	30	38	49	60
17...	0610	12.0	--	4870	13400	176000	--	--	--	--	--	85
17...	1655	12.0	--	3280	10100	89400	26	35	45	59	73	86
18...	1420	12.0	--	1900	10200	52300	22	30	39	50	63	71
20...	1740	10.0	--	352	3580	3400	28	37	51	66	77	88
24...	1715	9.0	165	--	1330	593	34	45	56	69	78	93
31...	1650	10.0	--	250	3020	2040	--	--	--	--	--	94
FEB.												
18...	1630	8.0	--	596	3890	6260	31	37	49	61	74	87
19...	1640	10.0	--	440	2420	2880	--	--	--	--	--	78
MAR.												
01...	1030	6.0	--	2100	8490	48100	--	--	--	--	--	81
06...	1805	--	--	1190	2820	9060	--	--	--	--	--	81
07...	1310	6.0	--	524	1260	1780	17	25	31	39	46	55
29...	1345	11.0	--	5760	12200	190000	29	35	46	59	74	88
29...	1500	--	--	5530	10300	154000	--	--	--	--	--	90
APR.												
01...	1930	10.0	--	3540	3860	36900	30	38	51	66	81	93
11...	1235	8.5	--	285	537	413	--	--	--	--	--	--
20...	1730	--	--	148	38	15	--	--	--	--	--	--
MAY												
14...	1600	17.5	--	68	7	1.3	--	--	--	--	--	--

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.											
22...	100	--	--	--	--	--	--	--	--	--	--
NOV.											
05...	--	100	--	--	--	--	--	--	--	--	--
09...	--	99	--	100	--	--	--	--	--	--	--
18...	92	--	98	--	100	--	--	--	--	--	--
29...	--	99	--	100	--	--	--	--	--	--	--
DEC.											
01...	--	87	--	99	--	100	--	--	--	--	--
JAN.											
14...	--	98	--	100	--	--	--	--	--	--	--
16...	--	79	--	92	--	99	--	100	--	--	--
17...	--	96	--	100	--	--	--	--	--	--	--
17...	--	97	--	100	--	--	--	--	--	--	--
18...	--	83	--	91	--	96	--	99	--	100	--
20...	--	97	--	100	--	--	--	--	--	--	--
24...	--	99	--	100	--	--	--	--	--	--	--
31...	--	99	--	100	--	--	--	--	--	--	--
FEB.											
18...	--	98	--	100	--	--	--	--	--	--	--
19...	--	89	--	100	--	--	--	--	--	--	--
MAR.											
01...	--	96	--	100	--	--	--	--	--	--	--
06...	--	94	--	100	--	--	--	--	--	--	--
07...	--	63	--	75	--	93	--	100	--	--	--
29...	--	98	--	100	--	--	--	--	--	--	--
29...	--	99	--	100	--	--	--	--	--	--	--
APR.											
01...	--	99	--	100	--	--	--	--	--	--	--
11...	51	--	51	--	62	--	76	--	93	--	100
20...	98	--	99	--	100	--	--	--	--	--	--
MAY											
14...	96	--	100	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
NOV.								
14...	1200	10.5	5	1090	147	2680	3	7
JAN.								
18...	1415	12.0	5	1900	140	4200	4	8
MAR.								
07...	1330	6.0	5	524	86	1150	4	11
APR.								
11...	1225	8.5	3	285	58	1390	4	9
MAY								
14...	1615	17.5	13	68	44	6.3	1	7
JUNE								
27...	1330	24.0	--	24	30	.00	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
NOV.								
14...	16	25	36	46	71	87	87	100
JAN.								
18...	15	29	47	61	83	98	100	--
MAR.								
07...	23	38	54	65	84	100	--	--
APR.								
11...	21	35	51	66	89	100	--	--
MAY								
14...	24	48	70	89	100	--	--	--
JUNE								
27...	--	--	--	--	--	--	--	--

11475250 EEL RIVER AT SOUTH FORK, CALIF.

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.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to current year. Published as "near McCann" in 1952-53, and as "at McCann" in 1954-67.

REMARKS.--Records furnished by California Department of Water Resources. Exact sampling location subject to change due to seasonal accessibility to river. Records of discharge given for 11475000 Eel River at Fort Seward.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	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.							
02...	1245	74	297	7.9	17.5	0	12.0
NOV.							
14...	1500	33100	105	8.3	11.0	320	12.6
DEC.							
11...	1510	7860	132	7.5	9.0	55	12.6
FEB.							
06...	0840	5270	162	7.6	6.0	60	13.0
MAR.							
05...	1430	12800	133	7.9	9.5	160	13.3
APR.							
02...	1340	49200	108	8.2	10.0	650	12.6
MAY							
14...	1350	6030	170	7.7	17.0	15	10.3
JUNE							
11...	1315	616	202	8.0	24.0	2	8.3
JULY							
09...	1335	219	271	8.0	21.0	1	9.0
AUG.							
06...	1315	99	285	8.0	23.0	1	--
SEP.							
04...	1255	47	304	7.8	21.0	1	9.4

DATE	TIME	DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
02...	1245	74	--	--	--	--	8.7	--	135	0
NOV.										
14...	1500	33100	--	--	17	3.0	3.5	2.1	63	0
APR.										
02...	1340	49200	77000	1600	--	--	3.4	--	59	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)
OCT.										
02...	111	--	6.3	--	--	--	--	--	--	130
NOV.										
14...	52	7.4	.5	.14	--	--	--	96	.13	55
APR.										
02...	48	--	.9	.02	1.1	.94	.02	--	--	49

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.										
02...	19	--	.3	17.5	2.7	200	--	--	--	--
NOV.										
14...	3	12	.2	11.0	.5	100	--	--	--	--
APR.										
02...	1	--	.2	10.0	.6	100	10	70	10	490

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.
(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, at gaging station 0.2 mi (0.3 km) upstream from mouth, and 5.3 mi (8.5 km) north of Branscomb.

DRAINAGE AREA.--6.50 mi^2 (16.84 km^2).

PERIOD OF RECORD.--Chemical analyses: February 1968 to current year.
Water temperatures: October 1967 to current year.
Sediment records: Water years 1969-73 (partial-record station), October 1973 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 21.0°C Aug. 2, 3; minimum, 6.5°C Jan. 11.
Sediment concentrations: Maximum daily, 1,090 mg/l Jan. 16; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 4,580 tons (4,150 tonnes) Jan. 16; minimum daily, 0 tons (0 tonnes) on several days during October, July, and September.
Period of record:
Water temperatures: Maximum, 21.0°C on several days in 1968, 1969, and 1974; minimum (1967-70, 1972 to current year), 2.5°C Dec. 10, 1972.
Sediment concentrations: Maximum daily, 1,090 mg/l Jan. 16, 1974; minimum daily, 1 mg/l on many days in 1973 and 1974.
Sediment discharge: Maximum daily, 4,580 tons (4,150 tonnes) Jan. 16, 1974; minimum daily, 0 tons (0 tonnes) on several days in 1973-74.

REMARKS.--Chemical-quality samples collected 0.2 mi (0.3 km) downstream from gaging station. No thermograph record May 27, 28, recorder stopped.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)
OCT.											
04...	1700	1.3	14	0	--	50	--	7	14	4.3	8.6
NOV.											
15...	1200	180	15	--	--	30	--	--	8.1	2.3	4.6
DEC.											
12...	1640	55	16	--	--	90	--	0	9.3	2.8	5.9
JAN.											
22...	1700	82	16	--	--	20	--	--	7.6	2.5	5.6
FEB.											
20...	1730	98	15	--	--	110	--	--	7.8	2.7	5.6
MAR.											
11...	1730	77	14	--	--	30	--	--	8.7	2.2	4.8
APR.											
23...	1730	18	15	--	--	40	--	--	9.9	2.9	5.5
MAY											
28...	1625	6.5	15	--	--	20	--	--	9.8	3.2	6.3
JUNE											
19...	1530	3.7	14	--	180	50	0	--	15	3.6	6.3
JULY											
29...	1755	1.5	16	--	--	20	--	--	13	4.0	7.4
SEP.											
03...	1500	1.0	14	--	--	40	--	--	13	4.1	7.5

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)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.											
04...	.8	79	0	65	4.1	2.4	1.4	--	--	--	.01
NOV.											
15...	.7	44	0	26	2.0	2.2	.3	--	--	--	.01
DEC.											
12...	.6	52	0	34	3.2	1.8	.1	--	--	--	.00
JAN.											
22...	.6	43	0	35	3.3	2.4	.0	.05	.00	.05	.06
FEB.											
20...	2.1	43	0	35	2.0	2.3	.4	.06	.00	.06	.01
MAR.											
11...	1.0	41	0	34	3.6	2.3	.2	.01	.02	.03	.02
APR.											
23...	.7	49	0	40	2.4	2.2	.6	.05	.02	.07	.02
MAY											
28...	.6	59	0	48	3.1	1.9	.0	.02	.00	.02	.01
JUNE											
19...	.7	63	0	52	4.0	2.2	.0	.04	.00	.04	.01
JULY											
29...	.8	69	0	57	4.7	2.8	.1	.00	.00	.00	.00
SEP.											
03...	.8	73	--	60	4.1	2.6	.1	.27	.00	.27	.26

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
OCT. 04...	.10	89	.12	.32	53	0	26	.5	140	7.5
NOV. 15...	.05	57	.08	27.7	30	0	25	.4	77	7.9
DEC. 12...	.02	65	.09	9.65	35	0	27	.4	85	7.3
JAN. 22...	.03	60	.08	13.3	29	0	29	.5	75	7.7
FEB. 20...	.08	59	.08	15.6	31	0	27	.4	75	7.4
MAR. 11...	--	57	.08	11.9	31	0	25	.4	83	7.3
APR. 23...	.06	64	.09	3.11	37	0	24	.4	86	6.9
MAY 28...	.03	69	.09	1.21	38	0	26	.4	107	7.9
JUNE 19...	.02	77	.10	.78	52	1	21	.4	113	7.9
JULY 29...	.04	83	.11	.34	49	0	24	.5	114	8.3
SEP. 03...	.08	83	.11	.22	49	0	24	.5	129	8.1

DATE	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	CYANIDE (CN) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT. 04...	--	10.8	97	4.0	580	600	--	4.0	--	70
NOV. 15...	10.5	10.5	95	.9	56	48	--	--	--	3
DEC. 12...	9.5	10.3	90	4.2	5	8	4	--	--	30
JAN. 22...	9.0	11.3	97	1.4	3	5	5	--	--	9
FEB. 20...	8.0	11.1	93	2.7	0	4	2	--	--	20
MAR. 11...	9.0	11.1	96	2.1	6	5	6	--	--	8
APR. 23...	9.0	10.9	94	9.9	7	1	0	--	--	20
MAY 28...	15.5	--	--	1.2	--	--	--	--	--	30
JUNE 19...	12.5	--	--	1.3	--	--	--	--	.00	50
JULY 29...	20.5	8.8	98	.6	31	4	44	--	--	50
SEP. 03...	15.0	9.0	88	.9	14	4	22	--	--	40

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS-SOLVED BARIUM (BA) (UG/L)	TOTAL 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)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)
OCT. 04...	1700	--	--	--	--	--	0	--	0	0	--
DEC. 12...	1640	--	3	--	0	--	0	--	0	--	--
JUNE 19...	1530	0	--	0	--	<10	--	0	--	--	<10

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED MOLYB-DENUM (MO) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL SILVER (AG) (UG/L)	DIS-SOLVED VANA-DIUM (V) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT. 04...	1	--	1	--	--	0	0	--	.0	--	10
DEC. 12...	0	--	0	--	.0	--	--	--	--	--	0
JUNE 19...	--	<100	--	.0	--	--	--	<10	--	50	--

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	9.0	12.0	10.0	15.0	11.0	18.0	15.5	20.5	17.0	16.0	14.0
2	9.5	9.5	11.5	9.0	15.5	11.5	18.0	14.5	21.0	17.5	15.5	14.0
3	9.5	9.0	12.0	9.0	15.0	12.0	18.5	15.0	21.0	18.0	15.0	13.5
4	10.0	9.5	12.5	10.0	15.0	12.0	18.5	15.0	20.5	17.5	15.5	13.5
5	10.0	10.0	13.0	10.0	16.0	12.5	18.5	15.5	19.0	17.0	16.0	14.0
6	10.0	9.5	13.0	11.0	16.0	13.0	17.5	15.5	20.0	17.0	16.0	14.0
7	10.0	9.0	14.0	12.0	15.5	12.0	15.5	14.5	19.0	16.5	16.0	14.0
8	10.0	9.5	14.0	12.0	16.0	11.5	15.0	14.5	19.0	16.5	15.0	13.5
9	9.5	9.0	13.0	11.0	16.5	12.5	15.0	14.0	19.0	16.5	15.5	14.0
10	9.0	8.5	13.0	10.5	17.0	12.5	14.0	13.0	19.0	16.5	15.5	14.0
11	10.5	9.0	13.0	10.5	17.0	13.0	15.0	13.0	18.5	16.0	15.5	14.0
12	10.5	9.0	12.0	11.0	16.5	12.5	16.0	13.0	18.5	16.0	14.5	13.0
13	10.5	9.5	12.0	10.0	15.5	12.5	16.5	13.5	17.0	15.0	14.0	13.0
14	10.5	9.5	11.5	9.5	15.5	12.5	16.5	14.0	17.0	14.5	14.0	13.0
15	10.0	9.0	11.5	10.0	14.0	12.0	16.0	14.5	17.0	14.5	13.0	12.5
16	10.5	9.0	10.0	9.0	14.5	12.0	16.0	14.0	16.0	14.0	13.0	12.0
17	10.0	9.5	9.0	9.0	15.0	12.0	17.0	14.0	16.0	14.0	13.0	12.0
18	9.5	9.0	9.5	8.0	15.0	12.0	17.5	15.5	16.0	14.0	13.5	12.5
19	10.0	9.0	10.0	8.0	14.0	12.5	18.5	16.0	15.5	14.0	13.0	12.0
20	10.5	8.5	11.0	8.5	16.0	12.0	19.5	17.0	16.0	14.0	13.0	12.0
21	11.0	9.5	12.0	9.0	17.0	13.5	19.5	17.0	16.5	14.5	13.0	12.0
22	11.0	10.0	12.5	9.0	16.5	13.5	19.0	16.5	17.0	14.5	13.0	12.0
23	10.0	8.5	12.5	10.0	16.5	14.0	19.5	16.5	17.5	15.5	13.0	12.0
24	8.5	8.0	13.0	10.0	16.0	13.0	20.0	17.0	17.5	15.5	13.0	12.5
25	8.0	8.0	14.0	11.0	15.5	13.0	20.0	17.5	17.0	15.0	13.0	12.5
26	9.0	8.0	15.0	12.0	15.0	12.5	20.0	18.0	17.0	15.0	13.0	12.5
27	10.0	8.0	---	---	16.0	12.0	20.0	18.0	17.0	14.5	12.5	12.0
28	11.0	8.0	---	---	17.0	13.0	20.0	17.5	16.5	14.5	12.0	12.0
29	12.0	9.0	13.5	11.5	18.5	15.0	20.5	17.0	15.5	14.5	12.0	12.0
30	12.0	10.0	13.5	10.5	19.0	15.5	19.5	16.5	15.0	14.5	12.0	11.0
31	---	---	14.5	10.5	---	---	20.0	16.5	16.0	14.0	---	---
MONTH	12.0	8.0	15.0	8.0	19.0	11.0	20.5	13.0	21.0	14.0	16.0	11.0

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	1.6	1	0	8.1	1	.02	260	19	14
2	1.6	1	0	7.6	1	.02	193	4	2.1
3	1.4	2	.01	7.6	1	.02	140	2	.76
4	1.4	2	.01	7.8	1	.02	111	2	.60
5	1.4	1	0	75	10	2.9	91	2	.49
6	3.8	3	.03	72	6	1.2	82	2	.44
7	7.6	2	.04	116	13	5.1	81	1	.22
8	5.2	1	.01	150	18	7.5	80	1	.22
9	4.4	1	.01	193	65	51	74	1	.20
10	3.8	1	.01	262	124	87	66	1	.18
11	3.4	1	.01	393	161	178	63	1	.17
12	3.2	1	.01	298	79	65	59	3	.48
13	3.2	1	.01	238	20	13	91	9	2.1
14	3.4	1	.01	233	12	7.6	102	3	.83
15	3.2	1	.01	191	11	5.7	94	4	1.0
16	3.2	1	.01	231	12	7.5	84	4	.91
17	3.4	1	.01	200	10	5.4	94	4	1.0
18	3.4	1	.01	176	8	3.8	91	3	.74
19	3.4	1	.01	131	5	1.8	84	3	.68
20	3.5	1	.01	114	14	4.6	81	4	.87
21	5.2	1	.01	99	6	1.6	137	18	6.6
22	31	4	.33	84	3	.68	144	5	1.9
23	44	4	.48	71	2	.38	121	3	.98
24	24	1	.06	63	2	.34	102	3	.83
25	15	1	.04	58	1	.16	86	2	.46
26	13	1	.04	53	1	.14	81	2	.44
27	11	1	.03	48	1	.13	86	4	.93
28	10	1	.03	55	14	2.2	91	4	.98
29	9.4	1	.03	105	15	4.4	156	13	5.3
30	8.6	1	.02	215	15	8.6	146	4	1.6
31	8.3	2	.04	---	---	---	118	4	1.3
MONTH	245.0	---	1.33	3955.1	---	465.81	3289	---	49.31

	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	94	3	.76	46	4	.50	238	44	29
2	80	3	.65	44	3	.36	176	27	13
3	72	3	.58	41	2	.22	131	14	5.0
4	63	3	.51	38	2	.21	91	6	1.5
5	57	3	.46	36	2	.19	74	5	1.0
6	53	3	.43	34	2	.18	61	4	.66
7	48	2	.26	31	2	.17	55	4	.59
8	45	1	.12	29	2	.16	53	4	.57
9	41	2	.22	27	2	.15	49	4	.53
10	39	3	.32	26	3	.21	41	3	.33
11	37	3	.30	24	3	.19	75	19	4.0
12	49	3	.40	25	5	.34	89	5	1.2
13	105	8	2.3	23	4	.25	86	3	.70
14	213	48	41	21	3	.17	81	3	.66
15	531	246	414	20	2	.11	71	3	.58
16	1470	1090	4580	25	3	.20	63	3	.51
17	539	332	559	22	2	.12	56	4	.60
18	282	75	57	49	11	2.6	51	4	.55
19	245	50	33	150	23	9.9	46	3	.37
20	178	28	13	105	10	2.8	41	2	.22
21	123	15	5.0	87	7	1.6	38	2	.21
22	89	11	2.6	73	5	.99	35	1	.09
23	71	7	1.3	63	4	.68	33	1	.09
24	60	5	.81	58	3	.47	31	1	.08
25	52	4	.56	51	2	.28	32	7	.65
26	47	4	.51	52	6	.84	29	4	.31
27	43	3	.35	48	4	.52	52	14	2.8
28	39	3	.32	193	40	29	81	10	2.2
29	36	3	.29	---	---	---	891	549	2460
30	33	3	.27	---	---	---	838	448	1330
31	41	6	.67	---	---	---	238	75	52
MONTH	4875	---	5716.99	1441	---	53.41	3926	---	3910.00

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	381	112	118	14	1	.04	5.9	1	.02
2	220	8	4.8	13	1	.04	5.6	1	.02
3	137	6	2.2	13	1	.04	5.4	1	.01
4	96	6	1.6	12	1	.03	5.2	1	.01
5	73	5	.99	12	2	.06	5.2	1	.01
6	58	4	.63	12	2	.06	5.0	1	.01
7	48	3	.39	11	2	.06	5.0	1	.01
8	42	2	.23	11	2	.06	4.8	1	.01
9	40	2	.22	11	2	.06	4.8	2	.03
10	38	2	.21	10	2	.05	4.6	2	.02
11	35	2	.19	10	2	.05	4.4	1	.01
12	34	2	.18	9.8	1	.03	4.2	1	.01
13	31	2	.17	9.5	1	.03	4.0	1	.01
14	29	2	.16	9.3	1	.03	4.0	1	.01
15	27	2	.15	9.0	1	.02	4.0	1	.01
16	26	2	.14	8.7	1	.02	4.0	1	.01
17	24	1	.06	8.7	1	.02	4.0	1	.01
18	23	1	.06	8.5	1	.02	3.8	1	.01
19	22	2	.12	8.2	1	.02	3.8	1	.01
20	21	2	.11	8.0	1	.02	3.8	2	.02
21	20	1	.05	7.7	1	.02	3.8	3	.03
22	19	2	.10	7.3	2	.04	3.6	2	.02
23	18	4	.19	7.0	2	.04	3.5	1	.01
24	18	3	.15	6.8	1	.02	3.5	1	.01
25	18	2	.10	6.6	1	.02	3.3	1	.01
26	18	1	.05	6.6	2	.04	3.1	1	.01
27	16	1	.04	6.6	2	.04	3.1	1	.01
28	15	2	.08	6.3	2	.03	3.1	1	.01
29	15	2	.08	6.1	3	.05	2.9	1	.01
30	14	1	.04	6.1	2	.03	2.8	1	.01
31	---	---	---	5.9	1	.02	---	---	---
MONTH	1576	---	131.49	281.7	---	1.11	124.2	---	.39

	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	2.8	1	.01	2.0	13	.07	1.2	10	.03
2	2.6	1	.01	2.0	20	.11	1.2	11	.04
3	2.6	1	.01	1.9	16	.08	1.1	10	.03
4	2.6	1	.01	1.9	11	.06	1.1	8	.02
5	2.5	1	.01	2.2	7	.04	1.1	7	.02
6	2.5	1	.01	2.2	6	.04	1.1	6	.02
7	2.5	1	.01	2.0	6	.03	.94	6	.02
8	4.8	5	.06	1.9	6	.03	.94	6	.02
9	4.6	3	.04	1.9	6	.03	.94	6	.02
10	3.3	2	.02	1.8	6	.03	.94	6	.02
11	2.9	2	.02	1.8	7	.03	.94	6	.02
12	2.8	1	.01	1.8	7	.03	.94	11	.03
13	2.6	1	.01	1.8	11	.05	.94	17	.04
14	2.5	1	.01	1.6	15	.06	.94	13	.03
15	2.5	1	.01	1.6	14	.06	.94	10	.03
16	2.3	1	.01	1.6	14	.06	.80	6	.01
17	2.3	1	.01	1.5	12	.05	.80	6	.01
18	2.3	1	.01	1.5	11	.04	.80	6	.01
19	2.2	1	.01	1.5	9	.04	.80	6	.01
20	2.2	1	.01	1.5	14	.06	.67	6	.01
21	2.0	2	.01	1.4	20	.08	.67	10	.02
22	1.9	2	.01	1.4	14	.05	.67	15	.03
23	1.9	3	.02	1.4	9	.03	.67	19	.03
24	1.9	1	.01	1.4	10	.04	.67	12	.02
25	1.8	1	0	1.4	10	.04	.80	6	.01
26	1.8	1	0	1.2	11	.04	.80	4	.01
27	1.6	2	.01	1.2	9	.03	.80	2	0
28	1.6	2	.01	1.2	8	.03	.80	3	.01
29	1.6	2	.01	1.2	8	.03	.80	4	.01
30	2.0	4	.02	1.2	8	.03	.80	6	.01
31	2.0	7	.04	1.2	9	.03	---	---	---
MONTH	75.5	---	.44	50.2	---	1.43	26.61	---	.59
YEAR	19865.31		10332.30						

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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.								
10...	0900	11.0	238	118	76	--	--	--
JAN.								
15...	1745	10.0	535	225	325	34	47	63
17...	1745	10.0	400	189	204	17	28	39
MAR.								
01...	1800	9.0	233	40	25	--	--	--

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	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.								
10...	--	--	86	91	97	100	--	--
JAN.								
15...	80	91	95	98	100	--	--	--
17...	51	60	65	70	76	81	89	100
MAR.								
01...	--	--	89	92	96	100	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)
OCT.						
04...	1645	8.5	--	1.4	15	.00
NOV.						
15...	1310	10.5	8	191	31	2.4
DEC.						
13...	1330	9.5	--	86	36	.00
JAN.						
17...	1825	10.0	4	375	28	284
22...	1640	9.0	--	81	29	.00
FEB.						
21...	1110	7.5	--	94	31	.00
MAR.						
11...	1730	9.0	--	77	27	.00
APR.						
23...	1600	9.0	--	18	27	.00
MAY						
29...	1515	13.0	--	6.1	21	.00
JUNE						
19...	1500	12.5	--	3.8	18	.00
JULY						
29...	1710	19.5	--	1.6	9.1	.00
SEP.						
03...	1500	15.0	--	1.0	3.5	.00

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 .250 MM
NOV.							
15...	1310	10.5	8	191	31	2.4	2
JAN.							
17...	1825	10.0	4	375	28	284	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
NOV.							
15...	7	32	59	82	93	100	--
JAN.							
17...	--	1	3	15	37	88	100

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CALIF.

LOCATION.--Lat 39°52'29", long 123°43'10", in NE¼SE¼ sec.3, T.23 N., R.17 W., Mendocino County, temperature recorder at gaging station 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).
PERIOD OF RECORD.--Water temperatures: October 1965 to current year.
EXTREMES.--Current year:
Water temperatures: Maximum, 24.5°C on several days during July and August; minimum, 5.0°C on several days during January.
Period of record:
Water temperatures: Maximum (1965-69, 1970 to current year), 26.5°C July 27, 1973; minimum (1965-70, 1971 to current year), 2.5°C Dec. 11-14, 1972.
REMARKS.--Recorder stopped Sept. 30.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	15.5	15.0	13.0	10.0	10.0	7.5	6.0	8.0	8.0	9.0	8.5
2	18.5	14.5	13.5	12.0	10.0	9.0	6.0	5.5	8.0	8.0	9.0	9.0
3	20.0	15.0	13.5	12.0	9.5	9.0	5.5	5.5	8.0	8.0	9.0	8.5
4	20.0	15.5	12.5	12.0	9.5	9.0	5.5	5.0	8.0	8.0	8.5	8.5
5	18.5	16.0	12.5	11.5	9.5	9.5	6.0	5.5	8.0	7.5	10.0	8.5
6	18.0	16.5	13.0	12.0	9.5	9.5	6.0	6.0	7.5	6.5	10.0	10.0
7	18.0	16.5	13.5	13.0	10.0	9.5	6.0	5.5	7.0	6.5	10.0	8.5
8	17.5	16.5	13.0	12.5	10.0	10.0	5.5	5.0	8.0	7.0	8.5	7.5
9	19.0	16.0	13.0	13.0	10.0	9.5	5.0	5.0	8.0	8.0	8.5	8.0
10	19.0	16.0	13.0	13.0	9.5	9.0	5.0	5.0	8.5	8.0	9.0	8.5
11	18.0	15.5	13.0	13.0	9.0	9.0	5.0	5.0	8.0	8.0	9.5	9.0
12	18.0	15.0	13.0	12.5	9.0	8.5	6.0	5.0	8.0	8.0	9.5	9.5
13	19.5	16.0	12.5	12.0	8.5	8.0	7.5	6.0	8.0	8.0	9.5	9.5
14	19.5	15.5	12.0	11.5	8.0	8.0	8.5	7.5	8.5	8.0	10.5	9.5
15	19.5	15.5	11.5	11.5	8.0	8.0	8.5	8.5	8.5	8.0	11.0	10.5
16	18.5	15.0	11.5	11.5	8.0	8.0	9.0	8.5	9.0	8.5	11.0	10.5
17	19.0	15.5	11.5	11.0	8.0	8.0	9.0	9.0	8.5	8.5	12.0	11.0
18	18.5	15.0	11.0	10.5	8.0	8.0	9.5	9.0	8.5	8.5	12.0	11.5
19	17.5	15.5	10.5	10.0	8.0	7.5	9.5	9.5	9.0	8.5	12.0	11.0
20	17.5	16.5	10.0	10.0	8.0	8.0	9.5	8.5	9.5	9.0	12.5	10.5
21	17.5	17.0	10.0	9.5	8.0	8.0	8.5	8.0	9.5	9.5	12.0	11.0
22	17.0	15.0	9.5	9.5	8.0	8.0	8.0	8.0	9.5	9.5	12.0	11.5
23	15.0	14.0	9.5	9.5	8.0	8.0	8.0	8.0	9.5	8.5	12.5	11.0
24	14.0	14.0	9.5	9.5	8.5	8.0	8.0	8.0	9.0	8.5	12.5	11.0
25	14.0	14.0	9.5	9.5	9.0	8.5	8.0	8.0	9.0	9.0	12.0	11.5
26	14.0	13.5	9.5	9.0	9.0	9.0	8.0	7.5	9.0	9.0	12.0	11.5
27	13.5	13.5	9.0	9.0	9.0	8.5	7.5	7.0	9.0	8.5	11.5	11.0
28	15.0	13.5	9.5	9.0	8.5	8.5	7.5	7.5	8.5	8.5	11.0	10.5
29	15.0	13.0	10.0	9.5	8.5	8.5	7.5	7.5	---	---	10.5	10.5
30	15.0	13.0	10.0	10.0	8.5	7.5	7.5	7.5	---	---	10.5	10.5
31	15.0	13.0	---	---	7.5	7.0	8.0	7.5	---	---	10.5	10.0
MONTH	20.0	13.0	15.0	9.0	10.0	7.0	9.5	5.0	9.5	6.5	12.5	7.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.0	16.0	13.5	20.0	17.0	22.5	20.5	24.5	22.0	21.5	20.0
2	10.0	10.0	16.0	13.0	20.0	17.5	22.5	20.0	24.5	22.0	21.5	20.0
3	10.5	10.0	16.0	13.0	19.5	17.5	23.0	20.0	24.5	22.5	21.5	20.0
4	10.5	10.0	16.0	13.5	20.0	17.5	23.0	20.0	24.0	22.0	21.5	20.0
5	10.5	10.5	16.5	14.0	21.0	18.5	23.0	20.5	22.5	22.0	21.5	20.0
6	11.0	10.5	17.0	14.5	21.0	18.5	23.0	20.5	24.0	22.0	21.5	20.0
7	11.0	10.5	18.0	15.0	20.5	17.5	21.5	20.5	23.5	21.5	21.5	20.0
8	11.0	10.5	18.0	15.5	20.5	17.5	20.5	19.5	23.5	21.5	21.5	19.5
9	10.5	10.0	17.5	15.0	21.0	18.0	21.5	19.5	23.5	21.5	21.5	20.0
10	11.0	9.5	17.5	15.0	21.5	18.0	20.0	19.0	23.5	21.5	21.0	20.0
11	12.0	10.0	17.5	15.0	21.5	19.0	21.5	19.0	23.5	21.5	21.0	19.5
12	12.5	11.0	17.0	15.0	21.0	18.5	22.0	19.0	23.0	21.0	21.0	19.0
13	13.0	11.0	16.0	14.0	21.0	18.5	22.0	19.0	22.5	20.5	21.0	19.5
14	13.0	11.0	16.5	14.0	21.0	18.5	22.0	19.5	22.5	20.5	20.5	19.5
15	13.0	11.0	17.5	14.0	20.0	18.0	22.0	20.0	22.5	20.5	20.5	19.0
16	13.5	11.0	16.5	13.5	20.0	18.0	22.0	19.5	22.5	20.5	20.0	19.0
17	12.5	11.5	14.5	13.0	20.5	18.0	23.0	20.0	22.5	20.5	20.0	18.5
18	12.0	11.0	15.0	12.5	20.5	18.5	23.0	21.0	22.0	20.5	20.0	18.5
19	12.5	10.5	15.5	12.5	19.0	18.5	23.5	21.0	21.5	20.0	20.0	18.5
20	13.5	11.0	15.0	13.0	21.0	18.0	23.5	21.0	21.5	20.0	19.5	18.5
21	14.5	12.0	16.5	13.0	21.5	18.5	23.5	21.5	22.0	20.0	19.5	18.5
22	14.5	12.5	17.0	13.5	22.0	19.0	23.5	21.0	22.0	20.0	20.0	18.5
23	13.0	12.0	17.0	14.5	22.0	19.0	24.0	21.0	22.5	20.5	20.0	18.0
24	12.0	11.0	17.5	14.5	22.0	19.5	24.0	21.5	22.5	20.5	19.5	18.0
25	11.0	10.0	18.0	15.0	22.0	19.5	24.5	21.5	22.5	20.5	19.0	18.0
26	11.5	10.0	19.5	16.5	22.0	19.0	24.5	22.5	22.5	20.5	19.5	18.0
27	13.0	10.5	19.0	16.5	22.0	19.0	24.5	22.5	22.5	20.5	19.0	18.0
28	14.0	11.0	19.5	16.5	22.5	19.0	24.5	22.5	22.0	20.5	19.0	17.5
29	15.0	12.5	19.0	16.5	23.0	20.0	24.5	22.0	21.0	20.5	19.0	18.0
30	15.5	13.0	19.0	16.0	23.0	20.5	24.0	22.0	21.0	20.5	---	---
31	---	---	19.5	16.5	---	---	24.0	22.0	21.5	20.0	---	---
MONTH	15.5	9.5	19.5	12.5	23.0	17.0	24.5	19.0	24.5	20.0	21.5	17.5

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CALIF.

LOCATION.--Lat 40°10'55", long 123°46'30", in NW¼ sec.30, T.3 S., R.4 E., Humboldt County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to current year.
Water temperatures: November 1960 to current year.
Sediment records: Water years 1955-62 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 29.0°C Aug. 4; minimum, 5.0°C Jan. 9, 10.
Period of record:
Water temperatures (1960-64, 1965 to current year): Maximum (1960-61, 1963-64, 1965-68, 1970 to current year), 34.0°C July 25, 1964; minimum (1960-64, 1965-70, 1972 to current year), 1.0°C Jan. 20, 21, 1963.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Mar. 6 to Apr. 15, recorder stopped.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.							
02...	1320	74	257	8.1	17.5	1	13.9
NOV.							
14...	1550	14400	92	8.2	12.0	240	12.2
DEC.							
11...	1555	4120	117	8.1	10.0	100	12.2
JAN.							
16...	1100	120000	64	7.2	10.5	3200	12.5
FEB.							
06...	0915	1650	129	7.3	6.5	60	13.4
MAR.							
05...	1520	4770	113	7.3	10.0	130	12.3
APR.							
02...	1420	21000	88	7.6	11.5	1500	11.7
MAY							
14...	1420	499	186	8.2	17.0	1	11.4
JUNE							
11...	1420	284	208	8.3	25.0	1	10.3
JULY							
09...	1410	275	234	8.3	22.0	1	10.0
AUG.							
06...	1345	66	252	8.1	27.0	2	--
SEP.							
04...	1330	49	251	8.2	24.0	1	12.5

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV.										
14...	1550	14400	--	--	10	3.2	4.4	1.5	46	0
JAN.										
16...	1100	120000	--	--	--	--	3.9	--	39	0
APR.										
02...	1420	21000	66000	1300	--	--	4.6	--	48	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)
NOV.										
14...	38	4.0	4.3	.17	--	--	.01	64	.09	38
JAN.										
16...	32	--	1.8	--	--	--	--	--	--	38
APR.										
02...	39	--	3.5	.03	.80	.65	.03	--	--	38

DATE	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.										
14...	0	19	.3	12.0	.5	0	--	--	--	--
JAN.										
16...	6	--	.3	10.5	3.9	500	--	--	--	--
APR.										
02...	0	--	.3	11.5	1.9	100	10	60	20	1300

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	12.5	11.5	10.5	8.5	7.5	10.0	8.0	9.5	9.0
2	18.5	15.5	13.0	11.5	10.5	10.0	7.5	6.5	9.0	8.5	9.5	8.5
3	18.5	14.5	13.0	11.5	11.0	10.5	7.0	6.5	9.0	8.5	9.5	8.0
4	19.0	15.0	12.0	11.5	11.0	10.5	7.5	6.5	9.0	8.5	9.5	9.0
5	18.0	15.0	13.0	11.5	11.5	10.5	7.5	7.5	8.5	7.0	11.0	9.5
6	16.5	15.5	13.5	12.5	12.5	11.5	7.5	6.5	8.0	6.5	---	---
7	18.0	16.0	14.0	13.5	13.0	12.0	6.5	6.0	8.0	7.0	---	---
8	17.0	16.0	14.5	14.0	12.5	11.5	6.0	5.5	8.5	7.5	---	---
9	19.0	16.5	14.5	14.0	11.5	11.0	5.5	5.0	8.5	7.5	---	---
10	18.5	16.0	14.5	14.0	11.0	10.5	5.5	5.0	9.0	8.0	---	---
11	17.5	15.0	14.5	14.0	10.5	10.0	6.0	5.5	8.5	8.0	---	---
12	18.0	15.0	14.0	13.0	11.0	10.5	8.5	6.0	8.5	8.0	---	---
13	19.0	16.0	13.0	12.5	11.0	10.5	9.5	8.5	8.0	7.5	---	---
14	19.0	16.0	13.0	12.0	11.0	10.5	10.5	9.0	9.5	8.0	---	---
15	19.0	17.0	13.0	12.5	11.0	10.5	10.5	10.5	9.5	9.0	---	---
16	18.5	16.5	13.0	12.5	11.0	10.0	11.0	10.5	9.5	9.0	---	---
17	18.5	16.0	13.0	12.0	11.5	11.0	11.0	11.0	9.5	8.5	---	---
18	18.5	16.5	12.0	11.0	11.0	10.0	11.5	10.5	9.5	9.0	---	---
19	17.5	16.5	11.5	11.0	10.5	9.5	11.5	10.0	9.5	8.5	---	---
20	18.5	17.5	12.0	11.0	10.5	10.0	10.0	9.0	9.0	8.5	---	---
21	18.5	17.5	11.5	11.0	11.0	10.5	9.0	8.0	9.0	8.5	---	---
22	17.5	15.5	11.5	11.0	11.0	10.5	8.5	7.5	9.5	8.0	---	---
23	15.5	14.5	11.0	10.5	11.0	11.0	9.0	8.0	9.5	8.0	---	---
24	14.5	14.0	11.0	10.5	11.5	11.0	9.5	8.5	10.0	8.0	---	---
25	15.0	13.5	11.0	10.5	11.5	11.5	9.5	9.0	9.5	8.5	---	---
26	14.5	13.5	11.0	10.5	11.5	11.0	9.0	8.5	10.0	8.5	---	---
27	15.0	13.5	12.0	11.0	11.0	11.0	9.0	8.0	9.5	8.5	---	---
28	15.5	14.5	12.5	11.5	11.0	11.0	9.0	8.5	9.5	9.0	---	---
29	14.5	13.5	12.5	12.5	11.5	11.0	8.5	8.0	---	---	---	---
30	14.5	13.0	12.5	11.5	11.0	9.0	9.5	8.5	---	---	---	---
31	15.0	13.5	---	---	9.0	8.5	9.5	8.0	---	---	---	---
MONTH	19.5	13.0	15.0	10.5	13.0	8.5	11.5	5.0	10.0	6.5	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	18.0	15.0	22.5	19.0	23.0	20.0	27.0	22.5	24.0	21.0
2	---	---	17.5	14.5	22.0	18.5	23.0	19.0	27.5	22.5	24.0	21.5
3	---	---	18.5	15.0	21.5	19.0	24.5	19.0	28.0	24.0	24.0	21.5
4	---	---	19.0	15.5	21.5	18.0	24.5	20.0	29.0	24.5	24.0	21.0
5	---	---	19.5	16.5	23.5	19.5	25.0	20.5	26.0	24.5	24.5	21.0
6	---	---	19.5	16.5	23.0	20.0	23.0	20.0	27.0	23.5	24.5	22.0
7	---	---	20.5	17.0	21.5	18.0	21.5	19.5	25.0	21.5	25.0	22.5
8	---	---	20.0	17.5	22.0	17.0	20.5	19.5	24.5	20.5	24.0	21.5
9	---	---	19.0	16.5	24.0	18.5	22.5	19.5	25.5	20.5	24.0	21.5
10	---	---	19.5	16.0	25.0	20.0	21.0	19.5	26.5	23.0	23.5	21.0
11	---	---	20.0	16.5	26.0	21.5	22.5	19.0	26.5	22.5	23.5	20.0
12	---	---	18.5	16.5	24.5	20.5	23.5	18.5	24.0	21.0	23.5	20.5
13	---	---	17.5	15.0	24.0	20.0	23.5	18.5	23.5	20.5	23.5	20.5
14	---	---	18.0	15.0	23.5	19.5	24.0	19.5	23.5	20.0	23.0	20.5
15	---	---	18.0	15.5	23.0	19.5	23.5	19.5	23.0	20.0	23.5	20.5
16	16.0	13.5	16.0	15.0	21.0	19.0	23.5	19.5	24.0	20.5	22.5	19.5
17	16.0	14.0	15.5	14.5	22.5	18.0	24.5	21.0	23.0	21.0	23.5	20.5
18	14.0	12.5	17.0	14.5	23.5	19.5	26.0	23.0	23.0	20.0	24.0	20.5
19	14.5	12.0	18.0	14.5	21.5	18.0	25.5	21.5	23.0	20.0	23.5	20.5
20	16.0	13.5	18.0	15.5	23.0	18.0	25.0	21.0	23.0	19.5	23.0	20.0
21	17.0	14.5	19.5	16.0	23.5	19.0	25.0	21.0	23.0	19.5	21.5	19.0
22	16.5	15.0	20.0	16.0	23.5	19.5	24.5	20.0	24.0	20.5	21.0	18.0
23	16.0	14.5	20.0	17.5	23.5	19.0	24.5	20.5	24.5	21.5	22.0	18.5
24	14.5	12.5	20.0	17.5	24.0	19.0	26.0	20.5	24.0	21.0	22.5	19.5
25	13.0	11.5	21.5	19.0	23.5	19.0	28.0	24.0	24.5	21.0	22.5	19.5
26	14.0	11.5	22.0	19.0	23.5	19.0	28.0	25.0	26.0	22.5	21.5	18.5
27	15.5	12.5	21.0	18.5	24.5	19.5	27.5	24.5	24.5	22.0	21.0	17.5
28	16.5	13.5	21.0	18.0	25.0	19.0	27.5	24.0	24.0	21.5	21.0	18.0
29	18.0	14.5	20.0	17.5	26.5	21.5	27.0	23.5	22.0	21.0	21.0	18.0
30	18.5	15.5	20.5	17.0	25.0	21.5	27.0	23.0	21.5	20.5	21.0	18.5
31	---	---	21.5	17.5	---	---	27.0	23.0	22.5	20.0	---	---
MONTH	---	---	22.0	14.5	26.5	17.0	28.0	18.5	29.0	19.5	25.0	17.5

11477000 EEL RIVER AT SCOTIA, CALIF.
(International Hydrological Decade Station)

LOCATION.--Lat 40°29'30", long 124°05'55", in SW¼ sec.5, T.1 N., R.1 E., Humboldt County, at gaging station at 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).

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to current year.
Water temperatures: October 1957 to current year.
Sediment records: Water years 1955-57 (partial-record station), October 1957 to current year.
Turbidity: Water years 1965-68, 1972-73 (partial-record station).

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 7,630 mg/l Jan. 16; minimum daily, 1 mg/l on several days.
Sediment discharge: Maximum daily, 6,870,000 tons (6,230,000 tonnes) Jan. 16; minimum daily, 0.39 ton (0.35 tonne) Sept. 3.
Period of record:
Water temperatures: Maximum (1960-64, 1965-72), 25.0°C Aug. 21, 22, 1971; minimum, 2.0°C Dec. 11, 1972.
Sediment concentrations: Maximum daily, 33,000 mg/l (estimated) Dec. 23, 1964; minimum daily, 1 mg/l on many days in 1958-64, 1966-67, 1970, 1972-74.
Sediment discharge: Maximum daily, 57,000,000 tons (51,700,000 tonnes), estimated, Dec. 23, 1964; minimum daily, 0.22 ton (0.20 tonne) Sept. 7, 1973.

REMARKS.--Selected chemical-quality samples collected by California Department of Water Resources. No thermograph record Nov. 9 to Jan. 2, recording malfunction; July 28 to Aug. 14, recorder stopped. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
02...	1150	222	7.5	10	37	11	9.2	1.4	151	0
NOV.										
08...	1400	43000	--	--	--	--	--	--	--	--
14...	1400	74300	11	60	14	3.6	3.9	1.1	59	0
DEC.										
11...	1415	14000	11	40	19	4.7	4.9	.8	69	0
JAN.										
16...	0905	324000	7.6	80	11	3.0	4.0	1.2	53	0
16...	1240	349000	--	--	--	--	--	--	--	--
FEB.										
05...	1600	8110	12	20	19	5.7	5.3	.9	82	0
20...	1300	35400	--	--	--	--	--	--	--	--
MAR.										
05...	1335	25100	12	20	18	5.3	4.6	1.0	76	0
26...	1400	9500	--	--	--	--	--	--	--	--
APR.										
02...	1245	105000	13	70	13	5.1	3.3	1.0	60	0
MAY										
14...	1245	2720	11	20	23	6.3	5.1	1.0	98	0
JUNE										
11...	1255	1050	9.5	20	29	7.7	5.9	1.3	121	0
JULY										
09...	1230	541	10	10	41	9.8	7.0	1.4	155	--
AUG.										
06...	1225	255	8.5	20	40	10	--	2.1	107	--
SEP.										
04...	1210	142	8.4	20	39	10	9.8	1.5	169	0

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT.										
02...	124	24	6.8	.2	--	--	.03	--	--	--
NOV.										
08...	--	--	--	--	.08	.00	.08	.88	.00	.34
14...	48	5.6	2.3	.1	--	--	.26	--	--	--
DEC.										
11...	57	8.6	4.0	.2	--	--	.13	--	--	--
JAN.										
16...	43	4.1	1.5	.1	--	--	.48	--	--	--
16...	--	--	--	--	.11	.01	.12	2.0	5.6	7.6
FEB.										
05...	67	9.1	2.6	.1	--	--	.14	--	--	--
20...	--	--	--	--	.03	.00	.03	2.0	.00	1.1
MAR.										
05...	62	7.0	2.5	.1	--	--	.27	--	--	--
26...	--	--	--	--	.02	.00	.02	.06	.17	.23
APR.										
02...	49	4.6	2.0	.1	--	--	.30	--	--	--
MAY										
14...	80	12	3.0	.1	--	--	.06	--	--	--
JUNE										
11...	99	13	3.4	.1	--	--	.03	--	--	--
JULY										
09...	127	19	4.3	.1	--	--	.03	--	--	--
AUG.										
06...	88	20	6.4	.1	--	--	.03	--	--	--
SEP.										
04...	139	20	6.3	.1	--	--	.04	--	--	--

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT.									
02...	.04	--	172	.23	140	16	13	.3	301
NOV.									
08...	1.0	.04	--	--	--	--	--	--	123
14...	.90	--	72	.10	50	2	14	.2	117
DEC.									
11...	.12	--	88	.12	67	10	14	.3	138
JAN.									
16...	2.3	--	61	.08	40	0	17	.3	96
16...	3.8	.03	--	--	--	--	--	--	90
FEB.									
05...	.12	--	96	.13	71	4	14	.3	164
20...	.89	.42	--	--	--	--	--	--	118
MAR.									
05...	.04	--	89	.12	67	5	13	.2	149
26...	.10	.02	--	--	--	--	--	--	161
APR.									
02...	.83	--	73	.10	54	5	12	.2	114
MAY									
14...	.19	--	110	.15	84	4	12	.2	183
JUNE									
11...	.00	--	130	.18	100	1	11	.3	229
JULY									
09...	.02	--	170	.23	140	16	10	.3	286
AUG.									
06...	.06	--	--	--	140	53	--	--	226
SEP.									
04...	.00	--	179	.24	140	1	13	.4	314

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
OCT.									
02...	7.9	16.0	1	12.2	3.0	--	10	0	460
NOV.									
08...	--	13.5	--	--	--	13	--	--	--
14...	7.9	12.0	200	--	1.2	--	60	0	180
DEC.									
11...	7.4	9.0	50	12.5	4.4	--	40	0	190
JAN.									
16...	7.6	10.5	200	12.5	2.1	--	30	0	110
16...	--	11.0	--	--	--	48	--	--	--
FEB.									
05...	7.6	8.5	80	12.1	3.3	--	50	0	240
20...	--	8.5	--	--	--	9.0	--	--	--
MAR.									
05...	7.6	8.5	100	12.3	3.1	--	40	0	210
26...	--	13.0	--	--	--	1.7	--	--	--
APR.									
02...	8.0	10.0	100	12.3	1.0	--	30	20	60
MAY									
14...	8.3	17.0	10	11.0	.8	--	70	0	--
JUNE									
11...	7.9	23.0	1	8.8	2.4	--	90	0	320
JULY									
09...	8.1	20.0	1	10.0	2.0	--	110	0	420
AUG.									
06...	--	--	1	--	--	--	140	--	--
SEP.									
04...	8.0	18.0	1	10.3	2.7	--	140	0	440

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 HEPTA-CHLOR (UG/L)
NOV.										
08...	1400	.00	.0	.00	.00	.00	.00	.00	.00	.00
JAN.										
16...	1630	--	--	--	--	--	--	--	--	--
FEB.										
20...	1300	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV.									
08...	.00	.00	.00	.00	.00	.0	.00	.00	.00
JAN.									
16...	--	--	--	--	--	--	.00	.00	.00
FEB.									
20...	.00	.00	.00	.00	.00	.0	.00	.00	.00

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
NOV.												
08...	1400	8	7	1	<10	10	0	110	0	25	25	0
JAN.												
16...	1240	55	54	1	10	10	0	810	0	300	300	0
FEB.												
20...	1300	9	9	0	20	19	1	110	0	<50	<49	1
MAR.												
26...	1400	0	0	0	<10	<10	0	0	0	100	100	0

DATE	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV.												
08...	50	46	4	<100	99	1	.2	.1	.1	150	80	70
JAN.												
16...	500	480	19	200	200	3	.9	.7	.2	990	960	30
FEB.												
20...	70	66	4	<100	<96	4	.3	.3	.0	140	120	20
MAR.												
26...	40	35	5	<100	<97	3	.0	.0	.0	60	40	20

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	17.5	17.0	14.5	14.5	10.0	--	--	8.0	7.5	7.5	9.0	8.5
2	17.0	16.0	14.5	14.0	10.0	--	--	6.5	7.5	7.5	8.5	8.0
3	16.0	14.0	14.0	13.0	9.5	--	6.5	6.0	8.0	7.5	8.0	8.0
4	16.0	14.5	13.0	13.0	10.0	--	7.0	6.5	8.0	8.0	8.0	8.0
5	16.0	15.0	13.0	13.0	10.5	--	7.5	7.0	8.5	8.0	8.5	8.0
6	16.0	15.0	13.0	13.0	10.0	--	7.5	7.5	8.0	7.5	8.5	8.0
7	16.0	15.0	13.0	13.0	10.0	--	7.5	7.0	7.5	6.0	8.5	8.0
8	15.5	14.5	13.5	13.0	9.5	--	7.0	6.5	6.0	6.0	8.0	7.5
9	16.0	14.5	--	--	10.0	--	6.5	6.0	6.0	6.0	7.5	7.0
10	16.0	15.0	--	13.5	10.5	--	7.0	6.5	7.0	6.0	8.0	7.5
11	16.0	15.0	--	13.5	--	--	7.0	6.5	7.5	7.0	9.0	8.0
12	16.5	15.0	--	12.5	10.0	--	7.5	6.5	8.0	7.5	9.0	9.0
13	17.0	15.5	--	11.0	10.0	--	8.5	7.5	8.5	7.5	9.0	9.0
14	17.0	16.0	--	12.0	10.5	--	8.5	7.5	8.5	8.0	10.5	9.0
15	17.0	16.0	--	11.5	--	--	8.5	8.5	8.5	8.5	10.5	10.0
16	17.0	15.5	--	12.0	9.5	--	9.5	8.5	8.5	8.5	10.5	10.5
17	17.0	15.5	--	--	10.5	--	9.5	9.5	8.5	8.5	11.0	10.5
18	16.5	16.0	--	--	--	--	9.5	9.5	9.0	8.5	12.0	11.0
19	16.5	16.0	--	10.0	9.5	--	9.5	9.0	8.5	8.5	12.0	12.0
20	17.0	16.0	--	--	10.0	--	9.0	8.0	8.5	8.5	12.0	12.0
21	17.0	17.0	--	9.5	10.0	--	9.0	8.0	9.0	8.0	12.0	12.0
22	17.0	15.5	--	12.0	9.5	--	8.0	7.5	8.0	8.0	12.0	12.0
23	15.5	14.0	--	--	9.5	--	7.5	7.5	9.0	7.5	12.0	12.0
24	14.5	13.0	--	10.0	10.5	--	7.5	7.5	8.5	8.0	12.5	12.0
25	14.0	13.5	--	--	10.5	--	7.5	7.5	8.0	8.0	12.5	12.5
26	13.5	13.5	--	9.0	--	--	7.5	7.5	8.5	8.0	13.0	12.5
27	13.5	13.5	--	--	--	--	7.5	7.5	8.5	8.5	12.5	11.5
28	14.0	13.5	--	11.0	--	--	7.5	7.5	8.5	8.5	11.5	11.0
29	14.0	14.0	--	--	--	--	7.5	7.5	--	--	11.5	11.0
30	14.5	14.0	--	11.0	--	9.0	7.5	7.5	--	--	11.0	10.0
31	14.5	14.5	--	--	--	8.5	7.5	7.5	--	--	10.0	9.5
MONTH	17.5	13.0	--	--	--	--	9.5	6.5	9.0	6.0	13.0	7.0

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APR MAX	APR MIN	MAY MAX	MAY MIN	JUN MAX	JUN MIN	JUL MAX	JUL MIN	AUG MAX	AUG MIN	SEP MAX	SEP MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	11.0	9.5	14.5	14.5	19.5	17.5	21.5	19.5	23.0	--	20.0	19.0
2	10.0	10.0	14.5	14.0	19.5	17.5	21.0	18.5	--	--	20.5	20.0
3	10.0	10.0	15.0	14.5	18.5	16.5	21.5	18.0	--	--	21.0	19.5
4	10.0	10.0	16.0	15.0	17.5	16.0	22.0	19.0	23.5	--	21.5	20.0
5	10.0	10.0	16.5	15.5	19.0	18.0	21.0	19.0	--	--	21.5	19.5
6	11.0	10.0	16.5	15.5	19.0	17.5	20.0	18.0	--	--	21.5	19.5
7	11.5	10.5	17.0	16.0	18.5	16.5	19.5	17.5	22.0	--	20.5	18.0
8	11.5	11.0	17.0	16.0	19.0	16.5	20.0	18.0	--	--	21.0	19.5
9	11.0	10.0	16.0	15.5	19.5	17.0	21.5	18.5	23.0	--	21.5	19.5
10	10.5	10.0	16.5	15.5	21.0	18.0	21.0	19.0	--	--	20.5	19.0
11	11.0	10.0	16.5	15.5	21.0	19.5	21.5	19.0	22.0	--	20.0	18.0
12	12.5	11.0	16.0	15.0	21.0	19.5	22.0	19.0	--	--	20.0	17.0
13	12.5	11.5	15.5	15.0	20.0	19.5	22.5	19.5	22.0	--	20.0	18.0
14	12.5	12.0	15.0	14.5	21.0	19.5	23.0	20.0	21.0	--	19.0	18.0
15	12.5	12.5	15.5	15.0	21.0	19.0	22.5	20.0	20.5	19.5	19.5	17.5
16	13.0	12.5	15.5	14.5	19.5	17.5	22.0	19.0	21.0	19.5	19.0	17.5
17	13.0	13.0	14.5	14.0	20.0	17.5	23.0	20.0	20.0	18.5	20.0	17.0
18	13.0	12.5	14.5	14.0	20.5	18.5	22.0	20.5	19.5	17.5	20.0	17.0
19	12.5	12.0	15.5	14.0	19.5	18.5	23.0	20.0	20.0	18.0	20.0	18.0
20	12.0	12.0	16.0	15.0	21.0	18.5	22.5	20.5	20.0	18.5	20.0	18.0
21	13.0	12.0	17.0	15.5	20.5	19.0	23.0	20.5	20.5	18.5	19.5	18.5
22	13.5	13.0	17.5	16.0	20.0	18.0	22.5	19.0	21.0	18.5	19.5	17.5
23	13.0	13.0	18.0	16.5	19.5	17.5	21.0	20.0	20.5	19.5	19.5	17.5
24	13.0	12.5	19.0	17.0	20.0	17.5	23.5	20.0	21.0	19.5	20.0	18.0
25	12.5	12.0	20.0	18.0	21.0	18.5	24.0	20.0	21.0	19.0	19.5	17.5
26	12.0	11.0	20.0	18.0	21.0	18.0	24.0	20.5	21.0	19.5	19.5	17.5
27	12.5	12.0	18.5	17.5	21.0	18.5	24.0	21.0	21.0	20.0	19.0	16.5
28	13.5	12.5	19.0	17.0	22.0	18.5	--	24.5 --	20.0	19.5	19.0	16.5
29	15.0	13.5	19.0	17.0	23.5	20.0	--	-- --	19.5	19.0	18.5	17.0
30	15.0	14.5	19.5	17.5	22.0	20.5	--	23.5 --	19.0	18.5	18.5	17.0
31	--	--	19.5	18.0	--	--	--	-- --	19.0	18.0	--	--
MONTH	15.0	9.5	20.0	14.0	23.5	16.0	24.0	17.5	--	--	21.5	16.5

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	259	1	.70	1060	3	8.6	130000	2560	898000
2	216	1	.58	925	3	7.5	77800	1270	267000
3	194	1	.52	832	2	4.5	44000	800	95000
4	169	1	.46	817	4	8.8	30200	570	46500
5	150	1	.41	9840	1450	58500	22600	480	29300
6	153	1	.41	32000	1740	155000	19600	350	18500
7	199	1	.54	21800	660	38800	18900	310	15800
8	494	2	2.7	35100	2040	201000	20800	280	15700
9	974	2	5.3	32100	1020	88400	17500	270	12800
10	1000	2	5.4	79700	2210	484000	14600	265	10400
11	759	2	4.1	122000	2860	958000	14200	280	10700
12	610	2	3.3	127000	2360	809000	18000	498	24300
13	455	2	2.5	86900	1730	406000	30000	816	71600
14	365	1	.99	73100	1300	257000	36300	510	50000
15	303	1	.82	48700	1000	131000	27700	360	26900
16	265	1	.72	66300	1320	246000	21300	310	17800
17	243	1	.66	68900	1250	233000	26000	460	32300
18	235	1	.63	57400	990	153000	29000	350	27400
19	227	1	.61	38700	680	71100	21400	250	14400
20	233	1	.63	28000	530	40100	20600	293	17000
21	401	15	16	28300	560	42800	56200	1430	232000
22	2560	174	1580	22400	440	26600	64200	1080	187000
23	15700	928	43200	18000	390	19000	39900	620	66800
24	14300	675	26100	16200	360	15700	30200	400	32600
25	6230	260	4370	13400	320	11600	24300	310	20300
26	3960	90	962	12200	300	9880	20900	258	14600
27	2840	35	268	11100	280	8390	26700	392	30200
28	2130	25	144	13200	930	33100	37200	552	56000
29	1720	10	46	23100	1020	63600	51100	915	144000
30	1500	7	28	71500	2350	471000	58000	1060	166000
31	1270	4	14	---	---	---	36000	560	54400
MONTH	60114	---	76759.98	1160574	---	5031599	1085200	---	2705300

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	26000	360	25300	18100	1630	82700	90100	4740	1180000
2	19700	310	16500	16000	1020	44100	79800	2730	588000
3	16200	270	11800	11700	620	19600	51600	1670	233000
4	13600	250	9180	9940	550	14800	33500	1120	101000
5	11800	230	7330	8990	500	12100	25300	800	54600
6	10600	210	6010	8210	500	11100	21100	670	38200
7	9400	148	3760	7470	490	9880	21300	630	36200
8	8410	124	2820	6910	490	9140	19800	565	30200
9	7660	110	2280	6450	500	8710	16600	510	22900
10	6980	96	1810	6060	540	8840	14800	440	17600
11	6340	75	1280	5680	530	8130	19700	823	51300
12	8720	245	5770	5650	550	8390	33100	1390	124000
13	25400	1100	75400	6140	440	7290	32200	1080	93900
14	56300	2970	511000	5760	340	5290	24600	840	55800
15	175000	5560	2660000	5110	310	4280	20100	690	37400
16	324000	7630	6870000	5390	420	6110	17400	510	24000
17	225000	7000	4250000	7330	630	12500	15200	485	19900
18	96800	5050	1320000	8390	780	19400	13800	470	17500
19	97300	4150	1090000	52700	4770	738000	12700	450	15400
20	66400	3820	685000	38200	1960	202000	11300	430	13100
21	44900	1980	240000	23800	1050	67500	10400	380	10700
22	31600	1350	115000	22200	750	45000	9680	280	7320
23	23800	930	59800	16500	560	24900	9210	220	5470
24	19100	720	37100	13500	460	16800	8660	195	4560
25	15800	640	27300	11500	500	15500	8390	185	4190
26	13300	590	21200	10900	550	16200	9150	205	5060
27	11200	530	16000	12100	600	19600	10200	342	10000
28	9790	500	13200	36000	2950	409000	27900	1870	151000
29	8930	480	11600	---	---	---	69600	3240	894000
30	8120	460	10100	---	---	---	270000	7430	5470000
31	9340	679	18800	---	---	---	118000	4580	1460000
MONTH	1407490	---	18125340	386680	---	1846860	1125190	---	10776300

	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	118000	4740	1530000	4520	52	635	1560	10	42
2	108000	3400	991000	4570	54	666	1500	6	24
3	58600	2250	356000	4370	49	578	1450	6	23
4	39000	1580	166000	4250	46	528	1470	9	36
5	28300	1210	92500	4110	43	477	1440	6	23
6	23700	950	60800	3960	40	428	1380	4	15
7	18400	760	37800	4010	55	595	1390	4	15
8	14700	640	25400	4040	47	513	1350	4	15
9	15200	780	32000	4060	52	570	1260	5	17
10	15500	680	28500	3800	48	492	1150	5	16
11	12900	460	16000	3360	45	408	1050	6	17
12	11300	420	12800	3140	48	407	971	6	16
13	10700	348	10100	2990	35	283	934	6	15
14	10000	308	8320	2730	34	251	910	6	15
15	9340	265	6680	2530	30	205	865	6	14
16	8810	238	5660	2450	24	159	833	6	13
17	8180	198	4370	2370	22	141	833	6	13
18	8030	185	4010	2330	18	113	812	6	13
19	7820	175	3690	2220	15	90	876	6	14
20	6910	150	2800	2110	10	57	984	6	16
21	6360	114	1960	1980	7	37	922	6	15
22	6030	94	1530	1790	7	34	887	6	14
23	5940	98	1570	1690	7	32	801	6	13
24	5730	84	1300	1740	6	28	729	6	12
25	5620	76	1150	1720	6	28	689	6	11
26	5730	86	1330	1760	6	29	670	6	11
27	5730	86	1330	1820	8	39	631	6	10
28	5450	66	971	1930	10	52	603	6	9.8
29	4720	60	765	1880	10	51	603	6	9.8
30	4520	54	659	1820	12	59	576	6	9.3
31	---	---	---	1670	14	63	---	---	---
MONTH	589220	---	3406995	87720	---	8048	30129	---	486.9

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	558	6	9.0	261	3	2.1	147	1	.40
2	531	6	8.6	261	3	2.1	147	1	.40
3	513	5	6.9	248	3	2.0	144	1	.39
4	488	5	6.6	241	3	2.0	142	4	1.5
5	471	4	5.1	261	4	2.8	137	4	1.5
6	429	4	4.6	261	4	2.8	137	5	1.8
7	413	4	4.5	248	4	2.7	135	5	1.8
8	471	4	5.1	229	3	1.9	132	5	1.8
9	531	4	5.7	229	2	1.2	130	5	1.8
10	631	5	8.5	216	2	1.2	142	5	1.9
11	876	5	12	216	2	1.2	178	8	3.8
12	760	5	10	204	2	1.1	186	6	3.0
13	641	4	6.9	192	2	1.0	144	6	2.3
14	585	4	6.3	189	3	1.5	128	5	1.7
15	531	4	5.7	183	5	2.5	121	5	1.6
16	513	4	5.5	178	4	1.9	119	5	1.6
17	471	3	3.8	176	3	1.4	119	9	2.9
18	454	2	2.5	171	2	.92	119	5	1.6
19	437	2	2.4	168	2	.91	119	4	1.3
20	421	2	2.3	166	2	.90	115	3	.93
21	397	2	2.1	166	2	.90	110	3	.89
22	381	3	3.1	159	2	.86	110	2	.59
23	373	4	4.0	147	2	.79	108	2	.58
24	366	3	3.0	152	3	1.2	106	2	.57
25	350	3	2.8	154	3	1.2	104	3	.84
26	335	2	1.8	159	3	1.3	104	3	.84
27	319	2	1.7	159	2	.86	101	3	.82
28	304	2	1.6	152	2	.82	99	4	1.1
29	290	2	1.6	149	2	.80	99	4	1.1
30	282	3	2.3	149	2	.80	99	3	.80
31	275	3	2.2	149	2	.80	---	---	---
MONTH	14397	---	148.2	5993	---	44.46	3781	---	42.15
YEAR	5956488		41977924						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
OCT.										
22...	1615	16.0	3160	338	2880	--	--	--	--	--
23...	1620	14.0	17700	1570	75000	27	35	49	60	71
24...	1620	13.0	11100	533	16000	37	45	56	66	74
NOV.										
05...	1730	--	14100	2410	91700	29	38	51	65	77
10...	1730	13.5	74400	2230	448000	24	34	47	60	74
13...	1615	11.0	78300	1630	345000	22	30	41	52	64
16...	1615	12.0	74000	1410	282000	20	27	37	48	61
21...	1505	9.5	28000	552	41700	23	31	41	52	61
30...	1615	11.0	80600	2450	533000	21	29	39	52	66
DEC.										
02...	1140	10.0	76300	1140	235000	22	29	39	51	63
05...	1615	10.5	21400	439	25400	10	20	30	41	53
13...	1725	10.0	34100	1470	135000	18	27	38	51	62
21...	1620	10.0	68800	1700	316000	16	26	37	50	63
30...	1630	9.0	51100	915	126000	22	36	46	59	72
JAN.										
13...	0905	8.5	23100	1110	69200	12	26	30	37	44
13...	1640	--	27100	1240	90700	--	--	--	--	--
14...	1825	--	73300	3940	780000	29	37	50	64	77
15...	1650	--	195000	5200	2740000	24	33	47	62	75
16...	1230	--	345000	9340	8700000	32	38	53	66	80
16...	1330	--	361000	8850	8630000	29	38	51	65	78
16...	1550	--	376000	9300	9440000	29	39	52	66	80
16...	1640	--	373000	9140	9200000	31	39	54	68	81
16...	1830	--	362000	8910	8710000	--	--	--	--	--
17...	1655	--	165000	6510	2900000	24	34	44	55	68
18...	1655	--	106000	4820	1380000	24	34	41	56	68
19...	1415	--	98700	4120	1100000	25	32	40	51	64
21...	1650	9.0	41300	1850	206000	27	36	46	58	70
24...	1650	--	18400	653	32400	24	39	49	61	71
27...	1405	--	11100	513	15400	19	38	44	53	60

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
FEB.										
01...	1700	--	20400	1840	101000	--	--	--	--	--
18...	1700	9.0	8600	799	18600	14	19	25	30	37
19...	0745	8.5	43700	5060	597000	21	30	41	55	71
19...	1655	--	72100	5270	1030000	24	29	41	55	71
21...	1645	8.5	22900	961	59400	--	--	--	--	--
23...	1655	9.0	15500	567	23700	31	37	48	57	65
28...	1650	--	49500	5330	712000	22	31	43	55	71
MAR.										
01...	1645	9.0	85800	3590	832000	23	33	43	56	69
02...	1005	8.0	91000	2820	693000	24	32	43	56	69
14...	1400	10.5	23900	833	53800	19	27	35	43	51
29...	1655	11.5	79800	3980	858000	18	25	35	47	63
30...	0805	10.5	306000	7910	6540000	30	35	49	64	78
APR.										
01...	1800	11.0	142000	4870	1870000	22	28	40	53	66
12...	1200	12.5	11200	401	12100	35	42	47	53	59

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT.										
22...	--	95	--	97	--	100	--	--	--	--
23...	80	--	89	--	97	--	100	--	--	--
24...	--	78	--	83	--	91	--	100	--	--
NOV.										
05...	87	--	96	--	100	--	--	--	--	--
10...	86	--	94	--	99	--	100	--	--	--
13...	79	--	95	--	100	--	--	--	--	--
16...	76	--	91	--	100	--	--	--	--	--
21...	72	--	83	--	97	--	100	--	--	--
30...	79	--	93	--	99	--	100	--	--	--
DEC.										
02...	74	--	92	--	100	--	--	--	--	--
05...	--	68	--	85	--	100	--	--	--	--
13...	75	--	88	--	98	--	100	--	--	--
21...	78	--	93	--	100	--	--	--	--	--
30...	83	--	95	--	100	--	--	--	--	--
JAN.										
13...	52	--	66	--	83	--	100	--	--	--
13...	62	--	74	--	89	--	100	--	--	--
14...	88	--	96	--	100	--	--	--	--	--
15...	86	--	95	--	98	--	98	--	100	--
16...	89	--	97	--	100	--	--	--	--	--
16...	88	--	96	--	99	--	100	--	--	--
16...	90	--	97	--	100	--	--	--	--	--
16...	90	--	97	--	100	--	--	--	--	--
16...	89	--	97	--	100	--	--	--	--	--
17...	84	--	97	--	99	--	100	--	--	--
18...	80	--	96	--	100	--	--	--	--	--
19...	74	--	91	--	100	--	--	--	--	--
21...	81	--	95	--	100	--	--	--	--	--
24...	79	--	92	--	99	--	100	--	--	--
27...	66	--	78	--	97	--	100	--	--	--
FEB.										
01...	76	--	83	--	94	--	100	--	--	--
18...	--	42	--	54	--	83	--	99	--	100
19...	83	--	95	--	100	--	--	--	--	--
19...	82	--	96	--	100	--	--	--	--	--
21...	74	--	88	--	100	--	--	--	--	--
23...	72	--	81	--	98	--	100	--	--	--
28...	82	--	94	--	99	--	100	--	--	--
MAR.										
01...	81	--	95	--	100	--	--	--	--	--
02...	80	--	95	--	99	--	100	--	--	--
14...	57	--	65	--	88	--	99	--	100	--
29...	80	--	96	--	99	--	100	--	--	--
30...	88	--	97	--	100	--	--	--	--	--
APR.										
01...	79	--	94	--	100	--	--	--	--	--
12...	65	--	74	--	99	--	100	--	--	--

11477500 VAN DUZEN RIVER NEAR DINSMORES, CALIF.

LOCATION.--Lat 40°29'05", long 123°39'25", in NE¼NW¼ sec.7, T.1 N., R.5 E., Humboldt County, temperature recorder at gaging station on right bank, 10 ft (3 m) upstream from private road bridge, 0.3 mi (0.5 km) upstream from South Fork, and 2.8 mi (4.5 km) west of Dinsmores.
DRAINAGE AREA.--85.1 mi² (220.4 km²).
PERIOD OF RECORD.--Water temperatures: October 1965 to September 1974 (discontinued).
EXTREMES.--Current year:
Water temperatures: Maximum, 24.0°C Aug. 3.
Period of record:
Water temperatures: Maximum, 25.5°C Aug. 11, 1971, July 16, 1972; minimum (1965-68, 1969-73), freezing point on several days in 1965-68.
REMARKS.--Probe inoperative Oct. 1 to Apr. 15, Aug. 31 to Sept. 4, Sept. 6, 7, 10-30; recorder stopped May 10-15. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.5	--
13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	--	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	--	--	--	--	7.0	--	--	8.0	--	--	--	--	--	--	--
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	--	--	--	--	--	--	--	5.5	--	--	--	--	--	--	--
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	--	--	--	--	--	--	--	7.5	--	--	--	--	--	--	--
25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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	--	12.0	18.5	--	13.0	21.0	--	18.0	23.0	--	19.0	--	--	--
2	--	--	--	13.0	--	11.5	18.5	--	13.5	21.0	--	17.5	23.5	--	19.5	--	--	--
3	--	--	--	13.5	--	11.5	18.0	--	14.5	22.0	--	18.0	24.0	--	20.0	--	--	--
4	--	--	--	14.0	--	11.5	17.0	--	13.5	22.0	--	18.0	23.5	--	20.0	--	--	--
5	--	--	--	14.5	--	12.0	18.5	--	14.0	22.0	--	18.5	20.5	--	19.5	21.5	--	16.5
6	--	--	--	15.0	--	12.0	18.5	--	14.5	21.0	--	18.5	22.5	--	18.0	--	--	--
7	--	--	--	15.0	--	12.5	17.5	--	13.5	18.5	--	17.5	22.5	--	17.5	--	--	--
8	--	--	--	15.5	--	12.0	17.5	--	13.5	18.0	--	17.0	22.0	--	17.5	21.5	--	16.0
9	--	6.5	--	14.5	--	12.5	20.5	--	14.5	19.5	--	16.5	22.0	--	17.5	21.5	--	16.0
10	--	--	--	--	--	--	21.0	--	15.0	18.5	--	16.5	22.5	--	17.5	--	--	--
11	--	--	--	--	--	--	20.5	--	16.0	19.5	--	16.0	22.5	--	17.5	--	--	--
12	--	--	--	--	--	--	20.0	--	15.5	20.5	--	16.5	22.5	--	17.5	--	--	--
13	--	--	--	--	--	--	20.5	--	16.0	21.0	--	17.0	21.0	--	16.5	--	--	--
14	--	--	--	--	--	--	19.0	--	15.5	21.0	--	17.5	21.5	--	16.0	--	--	--
15	--	10.5	--	--	--	--	19.0	--	15.5	20.5	--	18.0	20.5	--	16.0	--	--	--
16	11.0	--	8.5	11.5	--	11.0	16.0	--	15.5	21.0	--	17.5	20.5	--	16.0	--	--	--
17	10.5	--	9.0	11.5	--	10.5	19.0	--	15.5	21.5	--	18.5	21.0	--	16.0	--	20.0	--
18	9.5	--	9.0	11.5	--	10.5	20.0	--	16.5	23.0	--	20.0	20.5	--	16.5	--	--	--
19	10.5	--	9.0	12.5	--	10.5	20.5	--	16.0	23.0	--	19.0	20.0	--	15.5	--	--	--
20	11.0	--	9.0	14.0	--	10.5	20.5	--	15.5	23.0	--	19.5	20.5	--	15.5	--	--	--
21	12.0	--	9.5	14.5	--	11.0	20.5	--	16.5	23.0	--	19.5	21.0	--	15.5	--	--	--
22	10.5	--	10.0	15.0	--	11.0	20.0	--	16.5	22.5	--	19.0	21.5	--	16.0	--	--	--
23	10.0	--	9.5	14.5	--	12.0	20.0	--	16.5	22.0	--	19.0	21.5	--	16.5	--	--	--
24	9.5	--	9.0	15.5	--	11.5	20.0	--	16.5	22.5	--	18.0	21.5	--	16.5	--	--	--
25	9.5	--	9.0	17.0	--	11.5	19.0	--	16.0	23.0	--	19.0	21.5	--	16.5	--	--	--
26	10.0	--	9.0	18.0	--	12.5	19.0	--	15.5	23.0	--	20.0	22.0	--	17.0	--	--	--
27	10.0	--	9.0	17.0	--	12.5	20.0	--	16.0	23.0	--	19.5	21.5	--	16.5	--	--	--
28	11.5	--	9.0	17.0	--	12.5	21.0	--	16.5	23.5	--	19.5	21.5	--	16.5	--	--	--
29	12.0	--	9.5	16.5	--	12.5	22.0	--	18.0	23.0	--	19.0	20.5	--	17.0	--	--	--
30	13.5	--	10.5	17.0	--	12.0	22.0	--	19.0	23.0	--	18.5	20.5	--	16.5	--	--	--
31	--	--	--	18.0	--	12.5	--	--	--	23.0	--	18.5	--	--	--	--	--	--
MONTH	--	--	--	18.0	--	10.5	22.0	--	13.0	23.5	--	16.0	24.0	--	15.5	--	--	--

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CALIF.

LOCATION.--Lat 40°28'50", long 123°53'23", in NE¼SE¼ sec.12, T.1 N., R.2 E., Humboldt County, at gaging station at 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).

PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), October 1958 to current year.
Water temperatures: December 1960 to current year.
Sediment records: Water years 1955-67 (partial-record station).
Turbidity: Water years 1964-67 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 29.0°C July 25; minimum, 2.0°C Jan. 10.
Period of record:
Water temperatures (1960-64, 1965 to current year): Maximum, 29.5°C July 1, 2, 1967; minimum, freezing point Dec. 14, 1972.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.							
02...	1050	28	265	7.8	15.0	1	12.1
NOV.							
14...	1230	6200	92	8.1	10.0	260	12.1
DEC.							
11...	1320	1980	109	7.4	9.0	170	13.0
FEB.							
05...	1505	787	120	7.2	6.5	50	13.5
MAR.							
05...	1150	1720	108	7.3	8.5	100	13.4
APR.							
02...	1130	5820	95	7.6	7.5	550	12.8
MAY							
14...	1150	195	162	7.8	15.0	1	10.6
JUNE							
11...	1150	78	200	8.1	22.5	1	8.9
JULY							
09...	1120	59	233	8.0	19.5	1	9.6
AUG.							
06...	1135	19	258	8.2	22.0	1	--
SEP.							
04...	1100	10	282	8.0	20.0	1	9.8

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV.										
14...	1230	6200	--	--	13	3.0	3.2	2.3	50	0
APR.										
02...	1130	5820	64000	1200	--	--	3.0	--	52	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)
NOV.										
14...	41	7.6	.9	.11	--	--	--	86	.12	45
APR.										
02...	43	--	1.1	.04	.90	.66	.02	--	--	43

DATE	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.										
14...	4	13	.2	10.0	.6	0	--	--	--	--
APR.										
02...	0	--	.2	7.5	2.1	0	10	60	390	210

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	16.0	13.5	11.0	9.0	7.5	6.5	4.5	8.0	7.0	7.5	6.0
2	18.5	15.0	11.5	9.5	8.0	7.5	4.5	3.0	7.0	6.0	6.0	5.5
3	18.5	13.0	12.0	9.0	9.0	7.5	4.5	4.0	7.5	6.0	6.5	5.0
4	18.5	13.0	10.5	9.5	8.5	7.5	4.5	3.5	8.0	6.5	8.0	6.0
5	18.0	15.0	11.0	9.5	9.5	8.0	6.5	4.5	7.0	5.5	8.5	7.5
6	16.0	14.5	11.5	11.0	10.5	9.5	5.5	4.5	7.0	5.0	8.5	6.5
7	18.5	15.0	13.0	11.5	11.0	10.5	4.5	3.5	7.5	5.5	7.0	5.5
8	16.5	14.5	13.0	12.5	10.5	9.0	4.5	3.0	9.0	6.0	6.5	4.5
9	18.5	14.5	13.0	13.0	9.5	7.5	4.0	3.0	9.0	6.5	7.5	5.0
10	18.0	14.5	13.5	13.0	8.5	7.5	4.0	2.0	9.0	6.0	8.5	7.5
11	18.5	15.0	13.0	12.5	9.5	8.0	5.0	2.5	7.0	6.5	9.0	8.0
12	18.5	14.0	12.5	11.0	9.0	8.0	7.0	5.0	7.5	6.5	8.5	8.0
13	19.0	15.5	11.0	9.0	9.0	8.0	8.5	7.0	7.5	5.0	9.0	6.5
14	19.5	15.5	10.5	9.0	9.0	8.0	10.0	8.5	9.0	6.0	10.0	8.5
15	18.5	14.5	10.5	10.5	9.0	8.0	10.0	10.0	8.5	7.0	11.0	9.0
16	19.0	14.5	10.5	10.0	9.5	8.5	10.0	10.0	8.0	6.5	11.0	10.0
17	19.0	14.0	10.5	9.5	9.5	8.5	10.0	9.0	8.0	6.0	11.0	10.0
18	18.0	14.5	9.5	8.5	8.5	7.0	10.5	9.5	7.5	7.0	13.0	10.5
19	17.0	15.0	8.5	7.5	8.5	7.0	10.0	9.0	7.5	7.0	12.5	9.5
20	19.5	16.0	9.0	8.5	9.5	9.0	9.0	7.5	7.5	6.5	13.5	10.0
21	18.0	16.0	8.5	7.5	9.5	9.0	8.0	6.0	7.0	6.5	11.0	10.0
22	16.0	13.5	8.5	8.0	9.0	8.5	7.0	5.5	6.5	5.5	12.0	10.5
23	14.0	12.0	8.5	8.0	9.0	8.5	7.5	6.5	6.5	5.5	12.5	10.0
24	12.0	11.0	8.5	8.0	10.0	9.0	8.0	7.0	7.5	6.0	13.0	10.0
25	12.0	11.0	8.5	8.0	10.5	9.5	8.0	7.0	7.5	7.5	13.0	11.0
26	13.0	11.5	8.0	7.5	9.5	9.0	8.5	7.5	7.5	6.0	12.0	10.5
27	14.0	11.0	9.5	8.0	9.5	9.0	7.5	6.5	7.0	5.5	11.0	9.0
28	14.5	11.5	10.5	9.5	9.0	9.0	8.0	7.5	7.5	7.0	10.0	8.0
29	13.5	11.5	10.0	10.0	9.5	8.5	7.5	7.0	---	---	10.0	9.5
30	13.5	10.5	10.0	9.0	8.5	6.5	8.0	7.0	---	---	10.0	8.5
31	13.5	11.5	---	---	6.5	6.5	8.5	7.0	---	---	8.5	7.0
MONTH	19.5	10.5	13.5	7.5	11.0	6.5	10.5	2.0	9.0	5.0	13.5	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.0	16.5	12.5	22.5	14.5	22.5	16.5	26.5	20.0	24.0	19.0
2	9.0	7.5	17.0	11.0	22.5	15.5	23.5	17.0	27.5	19.5	24.0	19.5
3	9.5	7.5	18.0	12.0	18.0	16.0	24.0	16.0	26.0	19.5	24.0	19.0
4	11.5	8.0	19.5	12.0	21.5	15.5	24.5	18.0	26.0	19.0	24.5	19.5
5	11.5	10.0	18.5	14.0	21.0	17.0	25.5	18.0	22.5	19.0	25.0	18.5
6	11.0	8.5	19.5	14.0	22.5	16.5	20.0	17.5	25.5	20.0	24.5	18.0
7	12.0	9.0	20.0	15.0	22.0	15.5	20.0	16.5	23.5	18.5	24.0	22.0
8	11.0	9.5	17.0	14.5	22.5	15.5	21.5	17.5	24.0	18.0	25.0	22.0
9	10.5	8.5	19.0	13.5	24.0	15.0	23.0	17.5	26.0	18.0	24.5	20.5
10	11.5	8.0	19.5	13.5	25.0	16.0	23.0	17.5	25.0	18.5	23.5	18.5
11	13.0	9.5	20.0	14.0	25.0	17.5	24.0	17.0	24.5	18.5	23.5	16.0
12	13.0	10.5	18.0	14.0	23.0	17.5	24.0	17.0	24.0	18.5	23.0	16.0
13	14.0	10.0	17.5	12.0	23.0	17.5	25.0	17.5	23.0	18.5	22.0	16.5
14	14.5	11.0	18.5	11.5	23.0	17.5	24.5	18.0	23.5	18.0	21.0	16.5
15	14.0	11.0	16.5	12.5	22.5	16.0	23.5	18.0	25.0	19.0	21.5	16.5
16	15.5	11.0	15.5	11.5	18.0	16.0	25.0	18.0	25.0	19.0	21.5	16.5
17	15.5	12.0	13.5	10.5	23.0	15.5	27.0	18.5	20.5	19.0	22.5	16.5
18	12.5	10.5	15.0	9.5	24.0	17.0	22.0	20.0	22.5	17.5	23.0	16.5
19	13.5	9.5	16.5	10.5	19.5	17.5	26.0	24.0	23.0	17.5	22.5	16.5
20	15.5	11.0	19.0	11.5	23.0	16.5	26.0	20.0	24.0	18.5	21.5	16.0
21	16.0	12.0	20.0	13.5	22.5	17.0	24.0	19.5	25.0	19.0	21.0	17.0
22	15.5	13.0	20.5	13.5	19.0	16.5	25.5	18.0	25.5	18.5	21.0	16.5
23	13.0	11.5	21.0	15.0	19.5	15.5	25.0	19.5	22.0	20.0	21.5	16.0
24	12.5	9.5	21.5	15.0	22.5	16.0	27.5	19.0	25.0	19.0	21.0	16.0
25	11.5	8.0	23.0	16.5	22.5	16.5	29.0	20.0	25.0	18.0	20.5	16.0
26	14.0	8.5	20.5	17.0	23.5	16.5	28.5	21.0	25.0	19.5	21.0	16.5
27	14.5	9.5	19.5	16.0	24.0	16.0	27.0	20.5	24.0	19.0	21.0	16.0
28	16.5	11.0	21.0	15.5	25.0	17.0	26.5	20.5	21.0	19.5	20.0	14.5
29	18.5	11.0	21.0	15.0	27.0	18.0	26.5	20.0	21.0	19.0	19.5	16.5
30	15.5	13.5	22.0	15.0	20.5	18.0	27.0	20.5	20.0	18.5	20.5	15.5
31	---	---	22.5	15.0	---	---	26.5	20.0	23.0	18.5	---	---
MONTH	18.5	7.5	23.0	9.5	27.0	14.5	29.0	16.0	27.5	17.5	25.0	14.5

11480500 MAD RIVER NEAR FOREST GLEN, CALIF.

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, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: Water years 1971-74, partial-record station (discontinued).
Water temperatures: November 1960 to current year.
Sediment records: Water years 1957-74, partial-record station (discontinued).
Turbidity: Water years 1964-67, 1971-74, partial-record station (discontinued).

EXTREMES.--Current year:
Water temperatures: Maximum, 23.0°C June 29, 30; minimum, 4.0°C Jan. 9-11, Mar. 8.
Period of record:
Water temperatures: Maximum (1960-66, 1967 to current year), 26.0°C June 25, 1961; minimum, freezing point Jan. 5, 6, 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)
OCT.								
03...	1315	105	.02	.00	.18	.26	.03	.09
NOV.								
13...	1530	2980	.15	.16	.08	.11	.22	.14
APR.								
09...	1745	791	--	.03	--	.20	--	.00

DATE	TOTAL KJELDAHL 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 ORTHO. PHOSPHORUS (P) (MG/L)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
03...	.21	.00	.35	.23	.08	.01	16.0	1.0
NOV.								
13...	.30	.05	.25	.45	.05	.06	10.0	3.0
APR.								
09...	--	--	.04	--	.00	.01	9.0	2.7

11480500 MAD RIVER NEAR FOREST GLEN, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.0	14.5	10.0	21.5	14.5	21.5	16.5	19.0	15.0	18.5	14.0
2	7.5	7.0	15.0	9.5	18.0	15.5	21.0	15.5	19.5	15.0	18.5	14.0
3	8.5	7.0	15.5	10.0	17.5	12.5	22.0	15.5	19.5	15.5	18.5	14.0
4	9.0	7.0	16.0	10.5	18.5	14.0	21.0	15.5	19.5	15.0	18.5	14.0
5	8.0	7.5	17.0	11.0	20.0	15.0	20.0	15.5	18.0	15.0	18.0	14.0
6	9.5	7.0	17.0	11.5	20.5	15.0	19.5	15.5	19.0	14.5	18.0	13.5
7	9.5	6.5	18.0	12.0	19.0	14.0	16.0	14.0	19.0	14.5	18.5	14.5
8	8.5	7.0	17.5	13.0	19.5	13.5	14.0	12.5	18.5	14.0	17.5	13.5
9	9.0	6.5	16.0	12.0	21.0	14.5	17.0	12.5	19.0	14.5	18.0	14.0
10	10.0	7.0	15.0	10.5	21.5	15.5	16.5	13.5	18.5	14.0	18.0	14.5
11	10.0	7.0	15.0	10.5	21.5	16.0	16.5	13.5	18.5	13.5	17.0	13.5
12	10.5	7.0	14.5	11.0	21.0	15.5	18.0	13.0	18.0	13.5	17.5	13.0
13	11.0	6.5	13.5	10.0	20.5	15.5	18.5	14.0	17.0	12.5	17.5	13.5
14	10.5	7.0	14.0	10.0	21.0	15.5	18.5	14.0	17.5	12.5	17.0	13.0
15	11.0	7.5	13.5	10.0	20.0	15.5	18.0	14.5	17.5	12.5	17.5	13.0
16	11.5	7.0	11.0	9.5	16.5	14.0	18.0	14.0	17.5	13.0	17.5	13.0
17	11.0	7.5	10.0	8.5	18.5	13.0	18.5	14.5	17.5	13.0	17.5	13.5
18	8.0	7.5	11.0	8.0	20.5	15.0	20.0	16.0	17.0	13.0	18.0	13.5
19	11.0	7.0	14.0	9.0	17.5	14.5	19.5	15.5	17.5	13.0	17.5	13.5
20	11.5	7.5	14.5	10.0	20.5	13.5	19.0	15.5	17.5	12.5	17.5	13.5
21	12.5	8.0	15.5	11.5	21.5	15.5	19.5	15.0	18.0	13.5	18.0	13.5
22	11.5	8.0	16.0	11.0	21.5	16.0	19.0	15.0	18.0	13.5	17.5	14.0
23	9.5	7.5	16.0	12.0	21.5	16.0	19.5	15.0	18.5	14.0	17.5	13.5
24	8.5	7.0	16.5	11.5	21.5	16.0	20.5	16.0	19.0	14.0	18.0	14.0
25	8.5	7.0	18.0	12.5	20.0	15.0	20.5	16.5	18.5	14.0	17.5	14.0
26	10.0	7.0	19.0	13.5	20.0	14.5	21.0	17.0	18.5	14.0	17.5	14.0
27	12.0	7.5	18.5	14.5	20.5	14.5	20.5	16.5	18.5	14.0	17.0	13.5
28	13.0	8.0	18.5	13.5	22.0	15.5	21.0	17.0	18.5	14.0	17.0	13.5
29	13.5	8.0	18.0	13.0	23.0	16.5	20.0	16.0	17.5	14.5	17.5	13.5
30	13.0	8.5	18.5	12.0	23.0	17.5	19.0	14.5	17.5	14.0	17.0	13.5
31	---	---	20.0	13.0	---	---	19.0	14.5	18.5	14.5	---	---
MONTH	13.5	6.5	20.0	8.0	23.0	12.5	22.0	12.5	19.5	12.5	18.5	13.0

11480500 MAD RIVER NEAR FOREST GLEN, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	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.									
03...	1225	15.0	107	4	1.2	6	--	--	--
NOV.									
14...	1110	10.0	2720	33	242	--	--	--	--
DEC.									
18...	1635	7.5	1500	13	53	15	--	--	--
JAN.									
24...	1415	7.5	941	201	511	200	73	92	94
MAR.									
12...	1600	6.0	1460	59	233	45	--	--	--
APR.									
10...	1100	8.0	725	139	272	80	52	67	68

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
OCT.									
03...	--	--	--	--	--	--	--	--	--
NOV.									
14...	--	--	--	--	--	--	--	--	--
DEC.									
18...	--	--	--	--	--	--	--	--	--
JAN.									
24...	97	98	--	98	--	99	--	100	--
MAR.									
12...	--	--	--	--	--	--	--	--	--
APR.									
10...	69	70	73	--	85	--	98	--	100

11480750 MAD RIVER NEAR KNEELAND, CALIF.

LOCATION.--Lat 40°45'50", long 123°53'20", in NW¼NW¼ sec.6, T.4 N., R.3 E., Humboldt County, at gaging station at mouth of Maple Creek, 30 ft (9 m) upstream from bridge, and 5.4 mi (8.7 km) east of Kneeland.

DRAINAGE AREA.--352 mi^2 (912 km^2).

PERIOD OF RECORD.--Chemical analyses: November 1970 to September 1974 (discontinued).
Water temperatures: November 1965 to September 1974 (discontinued).
Sediment records: Water years 1971-74, partial-record station (discontinued).
Turbidity: Water years 1971-74, partial-record station (discontinued).

EXTREMES.--Current year:
Water temperatures: Maximum, 26.5°C on several days during July and August.
Period of record:
Water temperatures: Maximum (1965-69, 1970 to current year), 28.0°C July 19-22, 1968; minimum (1965-73), 2.0°C Mar. 2, 1966.

REMARKS.--Chemical-quality samples collected from right bank 150 ft (46 m) upstream from gaging station. No thermograph record Oct. 1-21, Dec. 27 to Apr. 19, probe inoperative; Oct. 24-26, Nov. 29 to Dec. 26, recorder stopped. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.								
05...	1205	120	--	.01	.00	.48	.25	.00
NOV.								
16...	1030	8310	--	.04	.07	.35	.10	.00
APR.								
11...	1100	1700	20	.05	.02	.05	.03	.03

DATE	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL 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 ORTHO. PHOSPHORUS (P) (MG/L)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.									
05...	.00	.40	.16	.24	.41	.06	.01	14.5	14
NOV.									
16...	.07	.27	.10	.17	.31	.67	.04	10.5	6.0
APR.									
11...	.02	.08	.03	.05	.13	.11	.01	10.0	1.9

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)
OCT.								
05...	--	--	--	--	--	--	--	--
NOV.								
16...	--	--	--	--	--	--	--	--
APR.								
11...	4	0	0	0	3	2	.2	.0

DATE	TIME	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)
APR.									
11...	1100	4	0	0	0	3	2	.2	.0

11480750 MAD RIVER NEAR KNEELAND, CALIF.--Contnued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	--	--	--	11.0	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--
2	--	--	--	12.0	--	10.0	--	--	--	--	--	--	--	--	--	--	--	--
3	--	16.0	--	11.5	--	10.5	--	--	--	--	--	--	--	--	--	--	--	--
4	--	--	--	10.5	--	9.5	--	--	--	--	--	--	--	--	--	--	--	--
5	--	14.5	--	10.0	--	8.5	--	--	--	--	--	--	--	6.5	--	--	--	--
6	--	--	--	9.5	--	8.5	--	--	--	--	--	--	--	--	--	--	--	--
7	--	--	--	9.5	--	8.5	--	--	--	--	--	--	--	--	--	--	--	--
8	--	--	--	10.0	--	9.0	--	--	--	--	--	--	--	--	--	--	5.5	--
9	--	--	--	11.0	--	10.0	--	--	--	--	--	--	--	--	--	--	7.0	--
10	--	--	--	11.5	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--
11	--	--	--	11.5	--	11.0	--	--	--	--	--	--	--	--	--	--	7.0	--
12	--	--	--	11.5	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--
13	--	--	--	12.0	--	10.0	--	--	--	--	--	--	--	--	--	--	--	--
14	--	--	--	11.5	--	10.5	--	--	--	--	--	--	--	--	--	--	--	--
15	--	--	--	10.5	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--
16	--	--	--	10.5	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--
17	--	--	--	10.0	--	10.0	--	--	--	--	--	--	--	--	--	--	--	--
18	--	--	--	10.0	--	10.0	--	--	--	--	--	--	--	--	--	--	--	--
19	--	--	--	10.0	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--
20	--	--	--	9.5	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--
21	--	--	--	9.0	--	8.0	--	--	--	--	--	--	--	--	--	--	--	--
22	13.0	--	11.0	9.0	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--
23	11.0	--	10.5	9.0	--	8.0	--	--	--	--	--	--	--	--	--	--	--	--
24	--	--	--	9.5	--	8.5	--	--	--	--	--	--	--	--	--	--	--	--
25	--	--	--	9.5	--	8.5	--	--	--	--	--	--	--	--	--	--	--	--
26	--	--	--	9.0	--	8.5	--	9.0	--	--	--	--	--	--	--	--	--	--
27	10.0	--	9.0	9.0	--	8.5	--	--	--	--	--	--	--	--	--	--	--	--
28	10.0	--	8.5	8.5	--	8.5	--	--	--	--	--	--	--	--	--	--	--	--
29	11.0	--	9.0	--	9.5	--	--	--	--	--	--	--	--	--	--	--	--	--
30	12.0	--	10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31	11.0	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	--	--	--	12.0	--	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	--	--	--	13.0	--	12.5	18.0	--	17.5	22.5	--	21.5	26.0	--	23.0	24.5	--	21.0
2	--	--	--	13.5	--	12.0	19.0	--	18.0	22.0	--	21.0	26.5	--	22.5	24.0	--	21.0
3	--	--	--	13.5	--	12.5	19.0	--	18.5	22.0	--	21.0	26.5	--	22.5	24.0	--	21.0
4	--	--	--	14.5	--	12.5	18.5	--	18.0	22.5	--	21.5	26.0	--	23.5	24.0	--	21.0
5	--	--	--	15.0	--	14.0	19.0	--	18.5	22.0	--	21.5	24.5	--	22.5	23.5	--	20.0
6	--	--	--	15.5	--	15.0	19.5	--	18.5	22.0	--	21.0	25.0	--	22.5	23.5	--	20.0
7	--	--	--	16.0	--	15.0	19.5	--	18.0	21.0	--	20.5	25.5	--	22.5	23.5	--	20.0
8	--	--	--	16.0	--	15.5	21.0	--	17.5	21.0	--	20.0	25.5	--	21.5	23.5	--	20.0
9	--	9.0	--	16.0	--	15.0	21.0	--	18.0	21.0	--	20.0	25.0	--	21.0	23.5	--	19.5
10	--	--	--	16.0	--	15.0	21.0	--	18.5	20.5	--	20.0	25.5	--	22.0	23.0	--	19.5
11	--	10.0	--	16.5	--	15.5	21.5	--	20.0	20.5	--	20.0	25.5	--	22.5	22.0	--	19.0
12	--	--	--	16.5	--	15.5	21.0	--	20.0	21.0	--	20.0	25.0	--	21.5	22.5	--	18.0
13	--	--	--	16.0	--	15.0	20.5	--	20.0	21.0	--	20.0	24.5	--	21.0	22.5	--	19.5
14	--	--	--	15.0	--	14.0	20.5	--	20.0	21.0	--	20.0	24.0	--	20.0	22.0	--	19.0
15	--	--	--	15.0	--	14.0	20.5	--	19.0	20.5	--	20.0	24.0	--	20.0	21.5	--	18.5
16	--	--	--	14.5	--	14.0	20.5	--	19.5	20.5	--	20.5	24.0	--	20.0	21.0	--	18.5
17	--	--	--	14.0	--	13.0	20.5	--	18.5	20.5	--	20.0	22.5	--	21.0	21.0	--	18.0
18	--	--	--	13.5	--	12.5	21.5	--	19.5	20.5	--	20.5	23.0	--	19.5	21.0	--	17.5
19	--	10.0	--	13.5	--	13.0	21.0	--	19.5	22.0	--	20.0	23.5	--	19.0	21.0	--	17.5
20	11.5	--	10.5	14.5	--	13.0	21.0	--	19.0	21.5	--	21.0	23.0	--	19.0	20.5	--	17.5
21	14.5	--	11.5	15.5	--	13.5	21.5	--	20.5	21.5	--	21.0	23.5	--	19.0	21.0	--	18.5
22	14.0	--	12.0	15.5	--	14.5	22.0	--	20.5	21.5	--	20.5	24.0	--	19.5	21.0	--	18.5
23	12.0	--	11.0	16.0	--	14.5	21.5	--	20.5	21.0	--	20.5	24.5	--	21.5	21.0	--	18.0
24	11.0	--	9.5	16.5	--	14.5	21.5	--	20.5	21.5	--	20.5	24.5	--	21.0	20.5	--	17.5
25	10.5	--	9.0	17.5	--	16.0	21.5	--	20.5	26.0	--	21.0	24.5	--	21.0	21.0	--	18.0
26	10.5	--	9.0	18.0	--	17.0	22.0	--	20.0	26.5	--	22.5	24.5	--	21.5	20.5	--	19.0
27	11.0	--	9.5	18.0	--	17.0	22.0	--	20.0	26.5	--	23.0	24.5	--	21.5	20.5	--	17.5
28	12.0	--	10.5	17.5	--	17.0	22.5	--	20.5	26.5	--	23.0	23.5	--	21.5	20.5	--	17.0
29	12.5	--	11.0	17.5	--	16.5	22.5	--	21.0	26.5	--	22.0	23.0	--	21.5	20.5	--	18.0
30	13.0	--	12.5	18.0	--	17.0	22.5	--	21.5	26.5	--	23.0	22.0	--	21.0	20.0	--	17.5
31	--	--	--	18.5	--	17.0	--	--	--	26.0	--	22.5	24.0	--	21.0	--	--	--
MONTH	--	--	--	18.5	--	12.0	22.5	--	17.5	26.5	--	20.0	26.5	--	19.0	24.5	--	17.0

11480750 MAD RIVER NEAR KNEELAND, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	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
OCT.											
05...	1145	14.5	120	2	.65	1	--	--	--	--	--
24...	1330	10.5	1900	563	2890	130	30	36	46	58	67
NOV.											
29...	1545	9.5	7220	1870	36500	200	15	21	29	39	50
DEC.											
26...	1445	9.0	3500	552	5220	70	--	--	--	--	--
FEB.											
05...	1605	6.5	1450	147	576	60	24	34	40	46	50
MAR.											
09...	1540	7.0	2770	974	7290	190	20	26	33	42	50
APR.											
11...	1410	10.0	1740	184	864	80	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.											
05...	--	--	--	--	--	--	--	--	--	--	--
24...	76	--	84	--	91	--	98	--	100	--	--
NOV.											
29...	60	--	72	--	86	--	95	--	100	--	--
DEC.											
26...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
05...	--	53	--	56	--	61	--	74	--	89	96
MAR.											
09...	--	58	--	64	--	71	--	78	--	88	96
APR.											
11...	--	67	--	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
OCT.								
05...	1145	14.5	--	120	54	.00	--	--
24...	1300	10.5	5	1900	126	767	3	15
NOV.								
29...	1535	9.5	5	7090	129	14400	3	7
DEC.								
26...	1530	9.0	5	3530	121	6910	4	5
FEB.								
05...	1640	6.5	5	1450	119	528	3	5
MAR.								
09...	1620	7.0	6	2770	128	8180	1	3
APR.								
11...	1405	10.0	4	1740	87	1470	--	3

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
OCT.								
05...	--	--	--	--	--	--	--	--
24...	34	58	74	83	96	100	--	--
NOV.								
29...	15	28	39	48	73	87	96	100
DEC.								
26...	23	44	61	73	96	99	100	--
FEB.								
05...	17	35	53	68	86	91	100	--
MAR.								
09...	12	32	51	66	87	96	100	--
APR.								
11...	14	31	48	65	88	100	--	--

11480780 MAD RIVER NEAR BLUE LAKE, CALIF.

LOCATION.--Lat 40°50'47", long 123°58'54", in NW¼ sec.5, T.5 N., R.2 E., Humboldt County, at gaging station 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 mi^2 (1,018 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1972 to September 1974 (discontinued).
Water temperatures: October 1972 to current year.
Sediment records: Water years 1973-74, partial-record station (discontinued).

EXTREMES.--Current year:
Water temperatures: Maximum, 27.5°C July 25; minimum, 3.0°C Jan. 10.
Period of record:
Water temperatures: Maximum, 27.5°C July 25, 1974; minimum, 1.5°C Dec. 14, 1972.

REMARKS.--No thermograph record Oct. 6 to Dec. 20, Mar. 27 to Apr. 8, July 3-9, 12-14, 17-23, July 29 to Aug. 29, Sept. 8, 9, recorder malfunction; Feb. 26 to Mar. 13, recorder stopped; Apr. 9 to July 1, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)
OCT.								
05...	1325	130	.01	.00	.04	.30	--	--
NOV.								
16...	1145	8670	.05	.06	.73	.08	.04	.20
APR.								
11...	1100	1890	.09	.03	.32	.10	.12	.04

DATE	TOTAL KJELDAHL 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 ORTHO. PHOSPHORUS (P) (MG/L)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
05...	--	--	--	--	.06	.02	17.0	--
NOV.								
16...	.77	.49	.28	.82	.84	.04	10.5	6.7
APR.								
11...	.44	.30	.14	.53	.30	.01	10.0	2.3

11480780 MAD RIVER NEAR BLUE LAKE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	18.5	--	18.0	--	--	--	--	--	--	7.0	--	5.5	8.5	--	7.5	--	--	--
2	18.5	--	17.5	--	--	--	--	--	--	5.5	--	5.0	7.5	--	7.0	--	--	--
3	18.0	--	17.0	--	--	--	--	--	--	6.0	--	5.0	8.0	--	7.5	--	--	--
4	17.5	--	17.0	--	--	--	--	--	--	5.5	--	4.5	8.5	--	7.0	--	--	--
5	17.5	--	17.0	--	--	--	--	--	--	6.0	--	5.0	8.5	--	6.0	--	--	--
6	--	--	--	--	--	--	--	--	--	6.0	--	5.0	7.0	--	5.0	--	--	--
7	--	--	--	--	--	--	--	--	--	5.0	--	4.0	7.5	--	5.0	--	--	--
8	--	--	--	--	13.0	--	--	--	--	5.0	--	3.5	8.5	--	6.0	--	--	--
9	--	--	--	--	--	--	--	--	--	5.0	--	4.0	8.5	--	6.5	--	--	--
10	--	--	--	--	--	--	--	--	--	4.0	--	3.0	8.5	--	6.5	--	--	--
11	--	--	--	--	--	--	--	--	--	6.0	--	4.0	8.0	--	7.5	--	--	--
12	--	--	--	--	--	--	--	--	--	7.0	--	6.0	8.0	--	7.0	--	--	--
13	--	--	--	--	--	--	--	--	--	8.0	--	7.0	7.5	--	6.0	--	7.0	--
14	--	--	--	--	--	--	--	--	--	9.5	--	8.0	9.0	--	7.0	8.5	--	7.0
15	--	--	--	--	--	--	--	--	--	9.5	--	9.0	8.5	--	7.5	9.5	--	7.5
16	--	--	--	--	10.5	--	--	--	--	9.5	--	8.5	8.5	--	7.5	9.5	--	8.5
17	--	--	--	--	--	--	--	--	--	9.5	--	8.0	8.5	--	7.5	9.5	--	8.5
18	--	--	--	--	--	--	--	--	--	9.5	--	9.0	8.0	--	7.5	11.0	--	9.0
19	--	--	--	--	--	--	--	--	--	9.5	--	9.0	8.0	--	7.5	11.0	--	8.0
20	--	--	--	--	--	--	--	9.0	--	9.0	--	7.5	8.0	--	7.0	10.5	--	8.0
21	--	--	--	--	--	--	9.0	--	8.0	7.5	--	7.0	8.0	--	7.5	9.5	--	9.0
22	--	--	--	--	--	--	8.5	--	8.0	7.0	--	6.5	7.5	--	6.5	10.5	--	8.5
23	--	--	--	--	--	--	8.5	--	8.5	8.0	--	7.0	7.5	--	6.0	11.5	--	8.5
24	--	11.0	--	--	--	--	9.5	--	8.5	8.0	--	6.5	8.5	--	6.5	11.5	--	8.5
25	--	--	--	--	--	--	9.5	--	9.0	8.5	--	7.0	8.5	--	7.5	12.5	--	9.5
26	--	--	--	--	8.0	--	9.0	--	8.5	8.0	--	7.0	--	--	--	11.0	--	9.0
27	--	--	--	--	--	--	9.0	--	9.0	8.5	--	6.5	--	6.5	--	--	--	--
28	--	--	--	--	--	--	9.0	--	9.0	8.5	--	7.5	--	--	--	--	--	--
29	--	--	--	--	--	--	9.0	--	8.5	8.0	--	7.0	--	--	--	--	--	--
30	--	--	--	--	--	--	8.5	--	7.5	8.0	--	7.5	--	--	--	--	--	--
31	--	--	--	--	--	--	7.5	--	7.0	8.5	--	7.5	--	--	--	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	9.5	--	3.0	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	--	--	--	--	--	--	--	--	--	--	25.0	--	--	--	--	24.5	--	19.0
2	--	--	--	--	--	--	--	--	--	25.0	--	17.5	--	--	--	23.5	--	17.5
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	23.5	--	17.5
4	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	24.0	--	17.0
5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24.0	--	17.0
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24.0	--	17.5
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	23.0	--	17.5
8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10	--	--	--	--	--	--	--	--	--	22.5	--	16.5	--	--	--	23.0	--	17.0
11	--	10.0	--	--	--	--	--	--	--	25.0	--	16.0	--	--	--	23.0	--	16.0
12	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	22.0	--	15.0
13	--	--	--	--	13.5	--	--	--	--	--	--	--	--	--	--	22.0	--	17.0
14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	16.0
15	--	--	--	--	--	--	--	--	--	24.0	--	15.0	--	--	--	20.5	--	15.5
16	--	--	--	--	--	--	--	--	--	24.0	--	16.0	--	--	--	21.5	--	15.5
17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22.5	--	15.5
18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22.5	--	15.5
19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.5	--	15.5
20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	15.5
21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	15.5
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	15.5
23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--	15.5
24	--	--	--	--	--	--	--	22.0	--	27.0	--	19.0	--	--	--	20.5	--	15.5
25	--	--	--	--	--	--	--	--	--	27.5	--	18.5	--	--	--	20.0	--	15.5
26	--	--	--	--	--	--	--	--	--	26.5	--	18.5	--	--	--	20.5	--	15.5
27	--	--	--	--	--	--	--	--	--	25.0	--	19.0	--	--	--	20.0	--	15.0
28	--	--	--	--	--	--	--	--	--	25.0	--	19.0	--	--	--	18.5	--	14.0
29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.0	--	16.0
30	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--	19.0	19.0	--	15.5
31	--	--	--	--	--	--	--	--	--	--	--	--	22.0	--	18.5	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24.5	--	14.0

11480780 MAD RIVER NEAR BLUE LAKE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)	TUR-BID-ITY (JTU)	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
OCT.											
05...	1445	17.5	130	2	.70	7	--	--	--	--	--
24...	1320	11.0	2450	580	3840	440	30	34	47	58	68
NOV.											
08...	1325	13.0	5890	1360	21600	170	29	30	33	46	57
26...	1655	8.0	3190	504	4340	100	20	27	35	43	51
DEC.											
20...	1635	9.0	5000	1260	17000	180	20	25	34	45	58
JAN.											
31...	1630	8.0	2180	1530	9010	400	--	--	--	--	--
FEB.											
19...	1520	8.0	7280	2040	40100	500	24	26	34	44	54
27...	1530	6.5	2050	457	2530	130	21	27	34	42	48
APR.											
04...	1515	9.0	4470	759	9160	240	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.											
05...	--	--	--	--	--	--	--	--	--	--	--
24...	80	--	87	--	96	--	99	--	100	--	--
NOV.											
08...	69	--	81	--	95	--	99	--	100	--	--
26...	--	58	--	66	--	75	--	87	--	89	89
DEC.											
20...	69	--	83	--	93	--	100	--	--	--	--
JAN.											
31...	68	--	78	--	82	--	87	--	100	--	--
FEB.											
19...	64	--	77	--	93	--	99	--	100	--	--
27...	--	54	--	62	--	75	--	93	--	100	--
APR.											
04...	81	--	90	--	99	--	100	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	STREAM WIDTH (FT)	SEDI-MENT BEDLOAD DIS-CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
OCT.								
05...	1445	17.5	--	130	78	.00	--	--
24...	1400	11.0	5	2420	340	4850	2	6
NOV.								
08...	1405	13.0	5	5910	406	16500	3	7
26...	1715	8.0	5	3190	388	2480	6	10
JAN.								
31...	1700	8.0	5	2180	204	900	5	9
FEB.								
19...	1405	8.0	5	7590	411	4210	6	22
27...	1600	6.5	6	2050	205	2520	3	12
APR.								
04...	1555	9.0	7	4430	403	2700	3	18

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
OCT.							
05...	--	--	--	--	--	--	--
24...	15	28	45	64	95	99	100
NOV.							
08...	19	37	60	76	95	100	--
26...	17	27	39	54	91	97	100
JAN.							
31...	20	39	61	81	100	--	--
FEB.							
19...	34	47	60	76	92	100	--
27...	19	35	53	67	87	96	100
APR.							
04...	37	59	79	90	98	100	--

11480800 NORTH FORK MAD RIVER NEAR KORBEL, CALIF.

LOCATION.--Lat 40°53'11", long 123°56'26", in SW¼ sec.22, T.6 N., R.2 E., Humboldt County, at gaging station 0.5 mi (0.8 km) downstream from Bald Mountain Creek, 1.2 mi (1.9 km) northeast of Korbel, and 2.5 mi (4.0 km) east of town of Blue Lake.

DRAINAGE AREA.--40.4 mi^2 (104.6 km^2).

PERIOD OF RECORD.--Sediment records: Water years 1973-74, partial-record station (discontinued).

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM
OCT.									
05...	1100	11.0	5.1	1	.01	5	--	--	--
NOV.									
27...	1425	10.0	796	220	473	50	--	64	--
DEC.									
21...	1430	10.0	450	161	196	40	45	--	52
FEB.									
01...	1710	--	457	94	116	40	--	55	--
MAR.									
07...	1515	7.0	347	54	51	25	--	67	--
APR.									
08...	1525	--	191	28	14	20	--	84	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.								
05...	--	--	--	--	--	--	--	--
NOV.								
27...	73	--	83	--	87	--	95	100
DEC.								
21...	--	63	--	77	--	100	--	--
FEB.								
01...	62	--	68	--	74	--	88	100
MAR.								
07...	--	--	--	--	--	--	--	--
APR.								
08...	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .250 MM
OCT.							
05...	1100	11.0	--	5.1	19	.00	--
NOV.							
27...	1530	10.0	3	796	56	150	1
FEB.							
01...	1745	--	3	457	36	23	2
MAR.							
07...	1530	7.0	3	347	36	5.7	2
APR.							
08...	1525	--	--	191	35	.00	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM
OCT.						
05...	--	--	--	--	--	--
NOV.						
27...	3	9	25	57	90	100
FEB.						
01...	3	7	19	37	56	100
MAR.						
07...	5	10	27	57	79	100
APR.						
08...	--	--	--	--	--	--

11481000 MAD RIVER NEAR ARCATA, CALIF.

LOCATION.--Lat 40°54'35", long 124°03'35", in NW¼ sec.15, T.6 N., R.1 E., Humboldt County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: November 1958 to current year.
Water temperatures: December 1957 to current year.
Sediment records: Water years 1955-57 (partial-record station), December 1957 to September 1974 (discontinued).
Turbidity: Water years 1971-74, partial-record station, (discontinued).

EXTREMES.--Current year:
Water temperatures: Minimum, 3.0°C Jan. 10.
Sediment concentrations: Maximum daily, 7,080 mg/l Jan. 16; minimum daily, 2 mg/l on several says during October.
Sediment discharge: Maximum daily, 709,000 tons (643,000 tonnes) Jan. 16; minimum daily, 0.13 ton (0.12 tonne) July 26.
Period of record:
Water temperatures: Maximum (1963-64, 1965-71), 27.0°C July 6, 27, 28, 1968; minimum, 0.5°C Dec. 17-20, 1965.
Sediment concentrations: Maximum daily, 21,900 mg/l Dec. 23, 1964; minimum daily 1 mg/l on many days in 1958-60, 1962, 1965, 1967-69, 1972.
Sediment discharge: Maximum daily, 3,140,000 tons (2,850,000 tonnes) Dec. 22, 1964; minimum daily, 0.01 ton (0.01 tonne) July 31, 1970.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Oct. 1-5, June 24 to Aug. 14, probe inoperative; Oct. 18-24, Feb. 21 to Mar. 5, recorder stopped. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
NOV.							
13...	1455	13400	85	7.4	10.0	450	11.6
JAN.							
15...	0730	18400	77	8.2	10.0	1300	12.4
MAR.							
04...	1500	4440	93	7.4	8.0	160	13.1
MAY							
13...	1350	271	158	8.2	16.0	3	11.5
JULY							
08...	1415	32	217	7.9	17.0	1	9.6
SEP.							
03...	1320	56	197	8.2	21.0	1	10.6

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV.										
13...	1455	13400	--	--	14	1.2	3.5	2.9	45	0
JAN.										
15...	0730	18400	--	--	--	--	2.7	--	50	0
MAY										
13...	1350	271	100	10	--	--	4.4	--	80	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)
NOV.										
13...	37	7.6	1.4	.27	--	--	--	84	.11	40
JAN.										
15...	41	--	.4	--	--	--	--	--	--	45
MAY										
13...	66	--	1.9	.00	.00	.02	.00	--	--	72

DATE	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.										
13...	3	15	.2	10.0	2.9	0	--	--	--	--
JAN.										
15...	4	--	.2	10.0	.5	200	--	--	--	--
MAY										
13...	6	--	.2	16.0	.8	0	0	0	0	0

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	--	--	--	14.5	--	11.0	9.0	--	8.0	8.0	--	5.5	9.5	--	8.5	--	7.5	--
2	--	--	--	12.5	--	9.5	9.5	--	8.0	6.0	--	4.5	9.5	--	7.5	--	7.0	--
3	--	--	--	13.5	--	9.0	8.5	--	8.0	6.0	--	5.0	8.5	--	7.5	--	8.0	--
4	--	--	--	10.5	--	9.5	8.0	--	7.5	6.5	--	4.0	9.5	--	8.0	--	7.5	--
5	--	--	--	10.5	--	9.5	8.5	--	7.5	6.0	--	4.5	9.0	--	7.0	--	7.5	--
6	14.5	--	13.5	11.0	--	10.5	9.5	--	8.5	7.0	--	4.5	9.0	--	6.0	8.5	--	8.0
7	18.5	--	13.5	11.5	--	11.0	10.0	--	9.5	6.5	--	4.0	8.5	--	6.0	9.0	--	7.5
8	15.0	--	13.0	12.5	--	11.5	10.0	--	9.0	6.0	--	3.5	9.0	--	6.5	8.5	--	7.0
9	18.0	--	13.5	12.5	--	12.0	9.0	--	8.0	6.5	--	3.5	9.0	--	7.0	8.0	--	7.0
10	17.0	--	13.0	12.5	--	12.0	8.0	--	7.5	5.5	--	3.0	9.0	--	7.5	8.0	--	7.5
11	17.0	--	13.0	12.5	--	12.0	9.0	--	8.0	6.0	--	3.5	8.5	--	8.0	8.5	--	8.0
12	16.5	--	12.0	12.0	--	10.5	8.5	--	7.5	7.0	--	6.0	9.0	--	7.5	8.5	--	8.0
13	18.0	--	14.0	10.5	--	9.5	8.5	--	8.0	8.0	--	7.0	8.5	--	6.5	8.0	--	7.5
14	18.0	--	13.5	10.5	--	9.5	8.5	--	8.0	9.0	--	7.5	9.0	--	7.5	8.0	--	8.0
15	18.0	--	13.5	10.5	--	10.5	8.5	--	8.0	9.0	--	8.5	8.5	--	8.0	9.0	--	8.0
16	18.0	--	13.0	11.0	--	10.5	9.0	--	8.0	9.0	--	8.5	8.5	--	8.0	9.0	--	8.0
17	18.0	--	13.0	10.5	--	9.5	9.0	--	8.5	8.5	--	8.0	8.5	--	7.5	9.0	--	8.5
18	--	14.0	--	10.5	--	9.0	9.0	--	7.5	9.5	--	8.5	8.5	--	8.0	10.0	--	8.5
19	--	14.5	--	9.0	--	8.0	8.5	--	7.5	9.0	--	7.5	9.5	--	7.5	10.0	--	9.0
20	--	12.0	--	9.5	--	8.5	9.0	--	8.0	9.5	--	7.5	8.0	--	7.0	10.0	--	9.0
21	--	--	--	9.5	--	8.5	10.0	--	8.0	8.5	--	7.0	--	7.0	--	10.0	--	10.0
22	--	--	--	10.0	--	9.0	8.5	--	8.0	8.5	--	7.0	--	6.0	--	11.0	--	10.0
23	--	12.0	--	9.0	--	8.5	8.5	--	8.0	9.0	--	7.5	--	--	--	11.0	--	10.0
24	--	11.0	--	9.5	--	8.5	9.0	--	8.5	9.0	--	7.0	--	9.0	--	11.0	--	10.0
25	13.5	--	10.5	9.0	--	9.0	9.0	--	8.5	8.5	--	8.0	--	9.0	--	11.0	--	10.0
26	14.0	--	10.0	9.0	--	8.5	9.0	--	8.5	9.0	--	7.5	--	8.0	--	10.5	--	10.0
27	14.5	--	10.0	9.5	--	9.0	9.0	--	8.5	8.5	--	7.0	--	7.5	--	10.5	--	10.0
28	15.5	--	11.5	10.0	--	9.5	9.0	--	9.0	9.0	--	8.0	--	8.0	--	10.0	--	9.0
29	15.0	--	11.5	10.5	--	10.0	9.0	--	8.0	9.0	--	7.5	--	--	--	10.0	--	9.5
30	15.0	--	10.0	10.0	--	9.0	8.5	--	7.5	9.0	--	7.5	--	--	--	10.0	--	9.0
31	13.0	--	11.5	--	--	--	8.0	--	7.0	8.5	--	8.0	--	--	--	9.0	--	8.0
MONTH	--	--	--	14.5	--	8.0	10.0	--	7.0	9.5	--	3.0	--	--	--	11.0	--	7.0

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	14.0	--	13.0	17.5	--	16.0	--	--	--	--	--	--	20.0	--	15.5
2	10.0	--	8.0	14.0	--	12.0	18.0	--	16.5	--	23.0	--	--	--	--	20.5	--	16.5
3	11.0	--	8.0	14.0	--	13.0	17.5	--	16.0	--	--	--	--	19.5	--	21.5	--	16.5
4	12.5	--	8.5	14.0	--	13.0	16.5	--	15.0	--	--	--	--	--	--	21.0	--	16.0
5	12.0	--	10.5	13.5	--	13.5	17.0	--	16.0	--	--	--	--	--	--	21.5	--	15.0
6	11.5	--	10.0	14.5	--	13.5	18.0	--	17.0	--	--	--	--	--	--	22.5	--	14.5
7	11.5	--	10.5	15.0	--	14.0	18.0	--	17.0	--	--	--	--	--	--	21.0	--	16.0
8	11.5	--	10.5	15.0	--	14.0	18.0	--	17.0	--	19.5	--	--	21.5	--	23.5	--	17.5
9	11.5	--	10.5	15.5	--	14.0	18.5	--	17.5	--	17.0	--	--	24.0	--	23.0	--	16.5
10	11.5	--	10.0	16.0	--	14.5	18.5	--	17.5	--	--	--	--	19.0	--	23.5	--	16.5
11	11.5	--	10.5	16.0	--	15.0	19.5	--	17.5	--	--	--	--	--	--	23.0	--	15.0
12	12.0	--	10.5	15.0	--	13.5	17.5	--	17.0	--	18.0	--	--	--	--	22.0	--	15.5
13	12.5	--	11.0	15.0	--	13.0	18.5	--	17.0	--	--	--	--	22.0	--	20.5	--	17.0
14	12.5	--	11.5	14.5	--	13.0	20.5	--	17.5	--	--	--	--	--	--	19.0	--	16.5
15	12.5	--	11.5	15.0	--	13.5	19.5	--	16.0	--	19.0	--	24.5	--	17.0	22.0	--	16.0
16	13.0	--	11.5	15.0	--	13.5	18.5	--	17.0	--	--	--	25.0	--	18.0	22.0	--	16.0
17	12.0	--	12.0	14.5	--	12.5	21.0	--	17.0	--	--	--	20.0	--	17.5	23.0	--	16.5
18	12.0	--	11.5	15.0	--	12.0	19.0	--	18.0	--	18.0	--	21.5	--	17.5	22.0	--	15.0
19	12.5	--	11.0	14.5	--	12.0	18.5	--	17.0	--	--	--	23.0	--	16.5	22.0	--	16.5
20	13.0	--	12.0	15.0	--	13.0	17.5	--	17.0	--	--	--	23.5	--	16.0	22.5	--	16.5
21	12.5	--	12.0	15.5	--	14.0	18.0	--	17.5	--	18.0	--	23.5	--	16.0	21.5	--	16.0
22	12.5	--	12.0	16.0	--	14.0	19.5	--	18.5	--	--	--	23.5	--	17.0	21.0	--	15.5
23	13.0	--	12.0	16.5	--	15.0	19.0	--	18.0	--	24.0	--	23.5	--	18.0	18.0	--	15.5
24	12.5	--	11.0	17.0	--	15.5	--	--	--	--	--	--	21.0	--	19.0	19.5	--	15.0
25	12.0	--	10.5	17.5	--	16.0	--	--	--	--	--	--	22.5	--	19.0	17.0	--	15.0
26	13.0	--	11.0	17.5	--	16.0	--	--	--	--	22.0	--	22.0	--	19.0	20.0	--	15.0
27	13.0	--	11.0	17.5	--	16.5	--	--	--	--	--	--	22.5	--	18.0	21.0	--	13.5
28	13.0	--	11.5	17.0	--	16.0	--	17.5	--	--	--	--	19.0	--	17.0	17.5	--	13.0
29	13.0	--	12.0	17.0	--	15.5	--	--	--	--	--	--	17.5	--	15.5	17.0	--	13.5
30	13.0	--	12.0	16.5	--	14.0	--	17.5	--	--	18.0	--	18.5	--	15.5	18.5	--	13.5
31	--	--	--	17.0	--	16.0	--	--	--	--	--	--	22.5	--	15.5	--	--	--
MONTH	13.0	--	8.0	17.5	--	12.0	--	--	--	--	--	--	--	--	--	23.5	--	13.0

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	80	8	1.7	361	13	13	16100	3300	143000
2	88	5	1.2	321	11	9.5	9370	1750	44300
3	76	3	.62	310	11	9.2	6580	1100	19500
4	69	3	.56	353	13	14	5040	750	10200
5	68	2	.37	4030	2070	27500	4240	530	6070
6	71	3	.58	5610	1950	34000	4240	500	5720
7	123	10	3.3	5280	1380	19700	4780	850	11000
8	128	7	2.4	7540	2050	44300	4640	600	7520
9	121	5	1.6	4890	1020	14700	3750	340	3440
10	104	4	1.1	6910	1460	29100	3040	250	2050
11	71	3	.58	12700	2510	86400	3490	620	6310
12	38	2	.21	11900	1890	61500	3550	470	4710
13	40	2	.22	11900	1670	56500	6300	1940	33100
14	30	2	.16	10100	870	23700	5600	780	11800
15	25	2	.14	8480	500	11400	4520	530	6470
16	40	2	.22	10000	1200	32500	3690	410	4080
17	62	2	.33	8580	430	9960	5620	1280	20700
18	62	2	.33	8280	1330	31900	5480	770	11400
19	61	2	.33	5830	720	11300	4160	470	5280
20	75	3	.61	5810	885	14300	4590	687	9200
21	468	115	228	7040	880	16700	9150	2940	76100
22	2270	243	1510	5920	660	10500	8130	1560	34200
23	8960	3370	101000	4740	504	6570	6290	990	16800
24	4350	1770	20800	5950	1050	17400	5850	722	11400
25	2230	700	4210	4850	470	6150	5970	742	12100
26	1280	295	1020	5040	410	5580	4530	460	5630
27	855	122	282	5860	853	13800	5770	689	11500
28	671	60	109	5810	720	11300	8030	1140	25300
29	541	32	47	7640	2040	42100	9280	1980	51800
30	416	24	27	18100	4860	241000	8610	1150	26700
31	349	18	17	---	---	---	6220	670	11300
MONTH	23822	---	129266.56	200135	---	879905.7	186610	---	648680

	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	4580	410	5070	4040	917	10300	10500	2990	86100
2	3380	300	2740	3340	540	4870	9020	1800	43800
3	2570	250	1730	2500	338	2280	6350	1200	20600
4	2080	210	1180	2140	285	1650	4620	875	10900
5	1830	155	766	1910	210	1080	3650	710	7000
6	1620	120	525	1680	160	726	3850	760	8100
7	1430	120	463	1400	150	567	4410	670	7980
8	1280	125	432	1230	130	432	3420	516	4760
9	1140	105	323	1100	120	356	2880	405	3150
10	1040	70	197	933	95	239	2430	325	2130
11	973	55	144	853	78	180	2700	460	3350
12	1160	108	369	954	98	252	4310	985	12300
13	2500	894	7120	927	94	235	4610	880	11000
14	5720	2210	47800	855	81	187	4020	680	7380
15	17300	5190	241000	834	77	173	3590	520	5040
16	36600	7080	709000	1760	362	1860	3020	378	3080
17	22500	5250	319000	2020	280	1530	2610	332	2340
18	11400	3510	108000	4590	1700	32900	2300	330	2050
19	9810	2750	72800	11100	3360	113000	1970	342	1820
20	7260	2040	40000	5320	1350	19400	1730	345	1610
21	5320	1500	21500	4350	940	11000	1540	338	1410
22	4150	1080	12100	3820	580	5980	1380	225	838
23	3340	720	6490	2990	430	3470	1430	130	502
24	2730	500	3690	2770	300	2240	1390	115	432
25	2320	440	2760	2300	238	1480	1360	126	463
26	2010	315	1710	2260	325	1980	1330	124	445
27	1710	235	1080	2470	380	2530	1520	210	862
28	1510	196	799	8840	3440	109000	2660	710	5220
29	1370	160	592	---	---	---	8370	3280	98400
30	1280	132	456	---	---	---	24500	5480	374000
31	1830	252	1450	---	---	---	12500	2850	96200
MONTH	163743	---	1611286	79276	---	329897	139970	---	823262

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	21200	4690	275000	568	36	55	41	5	.55
2	13000	2350	92500	449	28	34	32	5	.43
3	8500	1540	35300	449	20	24	48	7	.91
4	5920	1220	19500	378	16	16	86	6	1.4
5	4990	1050	14100	356	13	12	68	5	.92
6	4510	620	7550	326	10	8.8	55	4	.59
7	3750	485	4910	306	10	8.3	37	4	.40
8	3310	384	3430	288	7	5.4	35	4	.38
9	3330	344	3090	296	7	5.6	30	6	.49
10	3200	315	2720	289	6	4.7	30	6	.49
11	2950	250	1990	305	7	5.8	32	4	.35
12	2660	182	1310	299	7	5.7	30	4	.32
13	2320	146	915	283	6	4.6	23	4	.25
14	2010	120	651	271	5	3.7	20	4	.22
15	1740	120	564	283	4	3.1	22	4	.24
16	1400	120	454	286	4	3.1	20	4	.22
17	1270	90	309	320	10	8.6	27	8	.58
18	1420	95	364	324	8	7.0	23	6	.37
19	1290	85	296	280	7	5.3	23	5	.31
20	1140	74	228	236	7	4.5	28	5	.38
21	1060	65	186	207	6	3.4	27	5	.36
22	1020	59	162	192	6	3.1	23	5	.31
23	986	59	157	166	6	2.7	21	6	.34
24	957	55	142	159	6	2.6	20	5	.27
25	960	54	140	145	6	2.3	19	5	.26
26	822	49	109	168	6	2.7	20	5	.27
27	751	48	97	130	6	2.1	23	6	.37
28	689	47	87	86	5	1.2	24	6	.39
29	649	46	81	83	5	1.1	24	6	.39
30	602	42	68	72	5	.97	25	6	.41
31	---	---	---	64	5	.86	---	---	---
MONTH	98406	---	456410	8064	---	248.23	936	---	13.17

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	26	5	.35	27	3	.22	52	3	.42
2	30	4	.32	25	3	.20	54	3	.44
3	47	5	.63	25	3	.20	57	3	.46
4	50	4	.54	26	3	.21	53	3	.43
5	42	3	.34	26	3	.21	41	3	.33
6	33	3	.27	31	3	.25	40	3	.32
7	29	3	.23	31	4	.33	43	3	.35
8	32	4	.35	30	4	.32	41	3	.33
9	41	5	.55	31	4	.33	41	3	.33
10	50	7	.95	31	4	.33	40	3	.32
11	48	7	.91	33	4	.36	40	3	.32
12	48	7	.91	37	4	.40	39	3	.32
13	58	10	1.6	37	4	.40	42	3	.34
14	53	8	1.1	36	4	.39	39	3	.32
15	50	6	.81	39	4	.42	39	3	.32
16	45	5	.61	41	4	.44	40	3	.32
17	39	5	.53	42	4	.45	40	3	.32
18	39	4	.42	43	4	.46	44	6	.71
19	31	4	.33	44	4	.48	44	4	.48
20	27	4	.29	43	4	.46	40	3	.32
21	25	6	.41	45	4	.49	40	3	.32
22	22	5	.30	42	4	.45	42	3	.34
23	19	5	.26	43	4	.46	42	3	.34
24	18	4	.19	49	6	.79	43	3	.35
25	18	4	.19	49	6	.79	49	4	.53
26	16	3	.13	51	5	.69	46	4	.50
27	18	3	.15	52	4	.56	44	4	.48
28	17	3	.14	52	3	.42	49	4	.53
29	18	3	.15	54	3	.44	52	4	.56
30	20	3	.16	52	3	.42	50	4	.54
31	24	3	.19	50	3	.41	---	---	---
MONTH	1033	---	14.31	1217	---	12.78	1326	---	11.99
YEAR	904538		4879007.74						

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	23822.00	129266.56	11900	141000
NOVEMBER ...	200135.00	879905.70	174000	1050000
DECEMBER ...	186610.00	648680.00	144000	792000
JANUARY 1974	163743.00	1611286.00	131000	1740000
FEBRUARY ...	79276.00	329897.00	39100	369000
MARCH	139970.00	823262.00	97200	920000
APRIL	98406.00	456410.00	62700	519000
MAY	8064.00	248.23	1	249
JUNE	936.00	13.17	0	13
JULY	1033.00	14.31	0	14
AUGUST	1217.00	12.78	0	13
SEPTEMBER ..	1326.00	11.99	0	12
TOTAL	904538.00	4879007.74	659901	5531301

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT.										
23...	1045	12.0	10700	5630	163000	18	22	28	40	53
NOV.										
12...	0945	12.0	13200	3150	112000	16	22	30	40	51
20...	1515	9.0	6760	1370	25000	18	25	33	44	55
26...	0950	8.5	5200	486	6820	24	33	40	49	58
29...	1345	10.5	7720	2130	44400	14	18	27	37	50
30...	1330	10.0	21700	5370	315000	21	26	35	48	60
DEC.										
12...	0915	8.5	3450	360	3350	28	34	43	51	59
19...	1330	8.0	4080	429	4730	23	31	40	49	55
21...	1035	9.0	9990	4130	111000	14	19	28	39	51
21...	1425	10.0	10900	3590	106000	14	20	28	37	49
27...	1540	9.0	5360	516	7470	22	27	36	45	53
JAN.										
03...	1605	6.0	2450	268	1770	23	39	45	55	63
05...	0905	5.0	1850	157	784	--	--	--	--	--
09...	1055	4.0	1130	105	320	--	--	--	--	--
15...	0830	9.0	18400	6270	311000	19	24	33	45	59
15...	1710	9.0	15800	3740	160000	15	21	30	39	49
16...	0935	9.0	38600	8580	894000	--	--	--	--	--
16...	1305	9.0	40500	8400	919000	24	29	42	54	68
30...	1705	8.5	1290	121	421	55	69	75	85	90
FEB.										
19...	1310	8.0	10100	2710	73900	16	21	30	38	48
MAR.										
12...	1640	8.0	4990	1820	24500	--	--	--	--	--
29...	1740	10.0	11500	4060	126000	15	23	33	43	56
APR.										
01...	1650	10.0	24800	4010	269000	21	22	34	44	56
03...	1400	8.5	7970	1400	30100	20	27	35	44	53

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT.										
23...	68	--	87	--	98	--	100	--	--	--
NOV.										
12...	64	--	76	--	91	--	97	--	100	--
20...	68	--	81	--	91	--	99	--	100	--
26...	--	64	--	73	--	83	--	94	--	100
29...	66	--	85	--	96	--	99	--	100	--
30...	73	--	88	--	98	--	100	--	--	--
DEC.										
12...	--	66	--	74	--	85	--	95	--	100
19...	64	--	71	--	84	--	100	--	--	--
21...	62	--	82	--	94	--	99	--	100	--
21...	60	--	79	--	93	--	98	--	100	--
27...	--	61	--	69	--	80	--	94	--	100
JAN.										
03...	--	70	--	79	--	87	--	97	--	100
05...	--	78	--	84	--	92	--	97	--	100
09...	--	86	--	90	--	95	--	100	--	--
15...	71	--	86	--	97	--	99	--	100	--
15...	60	--	74	--	91	--	98	--	100	--
16...	81	--	93	--	99	--	100	--	--	--
16...	81	--	93	--	99	--	100	--	--	--
30...	--	94	--	95	--	98	--	100	--	--
FEB.										
19...	58	--	73	--	93	--	99	--	100	--
MAR.										
12...	69	--	83	--	94	--	100	--	--	--
29...	68	--	83	--	96	--	99	--	100	--
APR.										
01...	68	--	82	--	95	--	100	--	--	--
03...	63	--	71	--	86	--	99	--	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
JULY							
02...	1210	23.0	1	30	--	3	7
02...	1215	23.0	1	30	1	3	23
02...	1220	23.0	1	30	1	9	72
02...	1225	23.0	1	30	--	2	19
02...	1230	23.0	1	30	1	4	12
02...	1235	23.0	1	30	1	2	7
02...	1240	23.0	1	30	--	1	7
02...	1245	23.0	1	30	--	--	3

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
JULY							
02...	14	23	35	54	87	100	--
02...	30	33	40	54	84	100	--
02...	84	85	86	88	95	100	--
02...	24	28	36	52	79	91	100
02...	15	18	23	33	55	86	100
02...	11	14	19	27	43	60	100
02...	10	13	18	29	54	86	100
02...	9	23	34	48	69	100	--

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .250 MM
OCT.							
05...	1425	17.0	--	62	42	.00	--
NOV.							
20...	1430	9.0	5	6630	197	4150	6
DEC.							
19...	1440	8.0	7	3990	200	2920	6
JAN.							
30...	1750	8.5	5	1270	192	70	4
FEB.							
19...	1400	8.0	5	9680	215	2270	11
MAR.							
05...	1420	7.5	7	3560	198	919	11
APR.							
03...	1445	8.5	7	7910	213	10000	2
MAY							
09...	1325	14.0	--	304	124	.00	--
JULY							
02...	1220	23.0	--	30	37	.00	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
OCT.							
05...	--	--	--	--	--	--	--
NOV.							
20...	12	28	44	62	76	93	100
DEC.							
19...	19	33	47	63	78	96	100
JAN.							
30...	10	43	77	90	96	100	--
FEB.							
19...	22	26	33	46	60	85	100
MAR.							
05...	36	62	78	88	95	100	--
APR.							
03...	12	23	35	51	71	94	100
MAY							
09...	--	--	--	--	--	--	--
JULY							
02...	--	--	--	--	--	--	--

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
OCT.			
02...	--	6	3
05...	--	2	2
06...	--	3	2
09...	--	5	5
13...	--	2	1
16...	--	2	2
19...	--	2	1
23...	--	5630	600
27...	--	129	35
30...	--	25	10
NOV.			
02...	--	11	8
05...	--	3350	500
09...	--	600	130
12...	--	3150	380
16...	--	1850	300
19...	--	732	150
20...	--	1370	230
23...	--	462	100
24...	--	1050	180
26...	--	486	130
27...	--	1220	150
28...	--	686	130
29...	--	2130	300
30...	--	5370	630
DEC.			
10...	--	260	100
11...	--	466	100
12...	--	360	100
13...	0900	2270	300
13...	1550	1130	200
14...	--	812	150
15...	--	529	130
16...	--	410	95
17...	1135	1800	250
17...	1710	1690	200
18...	--	704	150
19...	--	432	100
20...	1015	529	100
20...	1445	776	130
21...	1035	4130	500
21...	1425	3590	450
22...	--	1380	200
23...	--	986	150
24...	--	660	130
25...	--	733	130
26...	--	426	100
27...	--	516	110
28...	--	1050	250
29...	1215	2520	500
29...	1620	2010	350

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
DEC.			
30...	--	1110	250
31...	--	615	600
JAN.			
01...	--	391	120
02...	--	280	90
03...	--	268	80
04...	--	214	75
05...	--	157	65
07...	--	291	65
08...	--	129	45
09...	--	105	35
10...	--	68	35
11...	--	56	30
12...	--	97	40
13...	1245	1270	300
13...	1730	1410	350
14...	1200	709	200
14...	1715	4970	950
15...	0830	6270	1400
15...	1710	3740	750
16...	--	8400	2000
17...	--	4810	1000
18...	--	3150	750
19...	--	2520	600
20...	--	1930	500
21...	--	1370	400
22...	--	1030	300
23...	--	621	200
24...	--	638	200
25...	--	413	150
26...	--	291	130
27...	--	221	110
29...	--	155	85
31...	--	814	230
FEB.			
02...	--	440	130
03...	--	223	120
04...	--	276	100
05...	--	185	85
06...	--	148	75
07...	--	149	70
08...	--	127	65
09...	--	141	65
10...	--	97	55
11...	--	79	50
12...	--	97	55
13...	--	88	50
14...	--	79	40
15...	--	77	40
16...	--	502	160
17...	--	176	70
18...	--	3580	700
19...	--	2710	600
20...	--	1150	230
21...	1230	973	200
21...	1700	1070	240
22...	--	586	170
24...	--	284	100
25...	--	232	90
26...	--	426	130
27...	--	349	120
28...	0920	2720	350
28...	1345	6020	1200
MAR.			
01...	--	2590	550
02...	--	1650	400
03...	--	1120	300
04...	--	815	200
07...	--	607	160
08...	--	497	130
09...	--	391	110
10...	--	311	100
11...	--	604	150
12...	--	313	350
13...	--	729	200
14...	--	670	200
15...	--	461	150
16...	--	712	150
17...	--	329	100
18...	--	333	100
MAR.			
20...	--	352	100
21...	--	332	80
22...	--	179	65
23...	--	131	60
24...	--	120	50
25...	--	128	55
26...	--	124	50
27...	--	214	300
28...	--	656	900
29...	0955	2330	300
29...	1740	4060	900
30...	--	5370	400
31...	--	2610	200
APR.			
01...	--	1140	900
02...	--	2110	500
03...	--	1390	350
04...	--	1180	280
05...	--	1070	260
06...	--	577	180
07...	--	482	150
08...	--	372	130
09...	--	404	130
10...	--	270	110
12...	--	173	80
13...	--	142	70
14...	--	115	60
15...	--	160	70
16...	--	119	50
17...	--	82	45
18...	--	105	55
19...	--	82	50
21...	--	63	40
22...	--	56	35
24...	--	53	30
27...	--	45	25
28...	--	53	25
29...	--	46	20
MAY			
01...	--	33	15
03...	--	20	10
06...	--	10	6
07...	--	10	5
08...	--	7	4
09...	--	7	4
10...	--	6	4
11...	--	7	4
14...	--	5	3
19...	--	7	4
23...	--	6	3
JUNE			
02...	--	5	2
06...	--	4	2
09...	--	6	2
12...	--	4	2
19...	--	5	2
23...	--	6	2
28...	--	6	3
30...	--	6	2
JULY			
02...	--	4	2
05...	--	3	2
09...	--	5	2
12...	--	7	2
18...	--	4	2
21...	--	6	1
AUG.			
03...	--	3	1
08...	--	4	2
10...	--	4	1
18...	--	4	1
24...	--	6	1
29...	--	3	2
31...	--	3	1
SEP.			
07...	--	3	1
18...	--	6	2
28...	--	4	2

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.

LOCATION.--Lat 40°54'22", long 123°48'51", in SE¼NE¼ sec.15, T.6 N., R.3 E., Humboldt County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: Water year 1974 (partial-record station).
Water temperatures: October 1972 to current year.
Sediment records: October 1972 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 30.5°C Aug. 2.
Sediment concentrations: Maximum daily, 6,390 mg/l Jan. 16; minimum daily, 1 mg/l Oct. 1-5.
Sediment discharge: Maximum daily, 63,200 tons (57,300 tonnes) Jan. 16; minimum daily, 0.02 ton (0.02 tonne) on many days.
Period of record:
Water temperatures: Maximum, 30.5°C Aug. 2, 1974.
Sediment concentrations: Maximum daily, 6,390 mg/l Jan. 16, 1974; minimum daily, 1 mg/l on many days in 1973.
Sediment discharge: Maximum daily, 63,200 tons (57,300 tonnes) Jan. 16, 1974; minimum daily, 0.01 ton (0.01 tonne) on many days in 1973.

REMARKS.--No thermograph record Nov. 14 to Jan. 16, recorder stopped; June 6-27, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
JAN.										
12...	0945	252	6.7	20	50	11	1.3	2.4	.5	33
FEB.										
21...	0800	670	6.2	90	120	9.8	1.5	1.9	.5	35
JULY										
18...	1000	15	--	--	--	--	--	--	--	--
26...	0930	.29	--	--	--	--	--	--	--	--

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 NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
JAN.										
12...	0	27	6.7	2.0	.1	.02	.00	.02	.14	.01
FEB.										
21...	0	29	4.9	1.6	.1	.03	.00	.03	.27	.01
JULY										
18...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)
JAN.									
12...	.01	47	.06	32.0	33	6	14	.2	79
FEB.									
21...	.00	44	.06	79.6	31	2	12	.2	72
JULY									
18...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DISSOLVED ORGANIC CARBON (C) (MG/L)	SUSPENDED ORGANIC CARBON (C) (MG/L)
JAN.									
12...	--	5.0	--	--	--	--	--	2.0	.1
FEB.									
21...	6.8	6.0	11.6	8.8	B32	B28	--	1.2	--
JULY									
18...	--	--	--	--	--	B26	B3	--	--
26...	--	--	--	--	--	B1	24	--	--

DATE	TIME	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
JAN.					
12...	0945	--	1	2	10
FEB.					
21...	0800	30	0	5	10

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT)

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	21.5	--	13.5	10.0	--	9.0	--	8.0	--	--	--	--	7.0	--	6.5	6.0	--	5.5
2	21.5	--	14.5	9.5	--	8.5	--	8.0	--	--	--	--	6.5	--	5.5	5.5	--	5.0
3	20.5	--	14.5	9.5	--	8.0	--	9.5	--	--	--	--	6.5	--	5.0	5.5	--	5.0
4	17.0	--	16.0	10.0	--	8.5	--	8.0	--	--	--	--	6.5	--	6.0	6.5	--	5.0
5	18.5	--	15.0	10.0	--	9.0	--	--	--	--	--	--	6.0	--	5.0	6.5	--	6.0
6	17.0	--	13.0	9.0	--	7.5	--	--	--	--	--	--	5.5	--	4.0	6.5	--	6.0
7	16.5	--	13.0	8.0	--	7.0	--	9.0	--	--	--	--	6.0	--	4.5	6.0	--	5.5
8	16.0	--	13.0	7.5	--	7.0	--	--	--	--	--	--	6.5	--	5.0	5.5	--	4.5
9	15.0	--	13.0	8.0	--	7.5	--	7.5	--	--	--	--	6.5	--	5.0	6.5	--	4.5
10	14.0	--	13.5	8.0	--	7.5	--	8.5	--	--	--	--	7.0	--	5.0	7.0	--	6.0
11	17.0	--	12.0	9.0	--	7.5	--	8.0	--	--	--	--	6.5	--	5.5	7.5	--	6.5
12	14.0	--	11.5	9.0	--	9.0	--	7.0	--	--	5.0	--	6.0	--	5.5	7.5	--	6.5
13	17.0	--	12.0	9.0	--	9.0	--	9.0	--	--	8.0	--	5.5	--	4.5	7.0	--	6.0
14	16.0	--	11.0	--	11.0	--	--	9.0	--	--	--	--	7.0	--	5.5	8.0	--	7.0
15	16.0	--	11.0	--	10.0	--	--	--	--	--	9.0	--	6.5	--	6.0	9.0	--	7.5
16	16.0	--	11.0	--	10.0	--	--	--	--	--	9.0	--	6.5	--	6.0	9.0	--	8.5
17	15.5	--	11.5	--	--	--	--	--	--	8.0	--	8.0	6.5	--	5.5	10.0	--	8.5
18	16.0	--	12.5	--	10.0	--	--	--	--	8.5	--	8.0	6.5	--	6.0	10.0	--	8.5
19	15.5	--	12.0	--	--	--	--	--	--	8.5	--	8.0	6.5	--	6.0	10.0	--	8.5
20	14.5	--	11.5	--	--	--	--	10.0	--	8.0	--	7.0	6.0	--	5.5	10.5	--	8.5
21	14.5	--	12.0	--	--	--	--	9.0	--	7.0	--	6.0	6.0	--	5.5	10.5	--	9.0
22	14.0	--	12.0	--	--	--	--	--	--	6.0	--	5.5	5.5	--	5.0	10.5	--	9.0
23	13.5	--	12.5	--	8.5	--	--	--	--	6.5	--	6.0	5.5	--	4.5	10.0	--	8.5
24	15.5	--	12.5	--	10.0	--	--	--	--	6.5	--	5.5	6.5	--	5.0	10.5	--	8.5
25	14.5	--	11.5	--	8.5	--	--	--	--	6.5	--	6.0	6.5	--	6.0	10.5	--	10.0
26	11.5	--	10.5	--	--	--	--	--	--	6.5	--	6.0	6.5	--	6.0	10.5	--	9.5
27	11.0	--	9.5	--	--	--	--	10.0	--	7.0	--	6.0	6.0	--	5.0	10.0	--	9.0
28	10.5	--	9.5	--	10.0	--	--	9.0	--	7.0	--	6.5	6.0	--	5.0	9.5	--	8.5
29	10.0	--	9.5	--	--	--	--	--	--	6.5	--	5.5	--	--	--	9.0	--	9.0
30	9.5	--	8.5	--	9.0	--	--	--	--	6.5	--	6.0	--	--	--	9.0	--	8.0
31	10.0	--	8.5	--	--	--	--	5.0	--	7.0	--	6.5	--	--	--	8.0	--	7.0
MONTH	21.5	--	8.5	--	--	--	--	--	--	--	--	--	7.0	--	4.0	10.5	--	4.5

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APR MAX	APR MIN	MAY MAX	MAY MIN	JUN MAX	JUN MIN	JUL MAX	JUL MIN	AUG MAX	AUG MIN	SEP MAX	SEP MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	8.5	7.5	12.0	10.0	18.0	14.0	26.5	17.0	29.0	19.0	27.0	18.0
2	8.0	7.5	12.0	8.5	17.5	14.0	26.0	15.0	30.5	19.5	26.5	17.5
3	7.5	6.5	13.0	9.0	17.5	14.5	27.0	15.5	30.0	20.5	26.5	16.5
4	9.0	7.0	13.5	9.5	16.0	14.0	27.0	16.0	30.0	20.0	26.5	16.5
5	8.5	8.0	14.0	10.5	16.5	15.0	27.0	16.0	22.0	20.0	27.0	16.0
6	8.5	7.0	14.0	11.0	--	--	26.0	16.5	28.5	19.0	27.0	16.5
7	9.0	7.0	14.5	11.5	--	--	18.5	15.0	27.5	17.5	26.5	17.5
8	8.5	7.5	15.0	11.5	--	--	19.5	16.0	28.0	17.0	26.0	17.0
9	7.5	6.5	14.5	11.0	--	--	17.5	15.0	28.5	17.5	26.0	16.5
10	8.5	6.5	14.0	10.5	--	--	17.5	13.0	28.5	18.0	25.5	16.0
11	9.0	7.5	14.5	10.5	--	--	21.0	12.0	28.5	18.0	25.0	15.0
12	10.0	7.5	13.0	11.0	--	--	23.5	12.5	27.5	17.0	24.5	14.5
13	10.5	7.0	12.5	9.0	--	--	24.0	13.0	26.5	16.0	24.5	14.5
14	10.5	8.0	11.0	8.5	--	--	24.0	13.5	26.5	16.0	24.5	14.5
15	10.5	8.0	11.5	9.5	--	--	22.5	14.5	26.5	15.5	24.0	14.0
16	11.5	7.5	10.5	9.0	--	--	24.5	13.0	26.0	16.0	24.5	14.0
17	10.5	9.0	9.5	8.0	--	--	23.5	16.0	26.0	17.5	25.0	14.5
18	9.0	8.0	10.5	8.0	--	--	27.0	18.5	24.5	17.0	25.5	15.0
19	9.5	7.5	11.0	9.0	--	--	27.5	18.0	25.0	15.5	25.0	15.0
20	10.5	8.0	12.0	9.0	--	--	26.0	17.0	26.0	15.0	24.0	14.5
21	12.5	9.0	13.5	10.0	--	--	27.0	17.0	26.5	15.5	23.5	14.5
22	11.0	9.0	14.5	10.0	--	--	26.5	16.0	26.5	16.0	23.5	15.0
23	9.5	8.0	14.5	11.5	--	--	27.5	17.0	27.5	18.0	24.0	15.0
24	8.0	7.0	15.0	11.5	--	--	29.0	18.0	27.5	16.5	24.0	14.5
25	8.0	6.0	16.5	12.5	--	--	29.5	19.0	27.5	17.0	23.5	14.5
26	9.0	7.0	17.5	13.0	--	--	30.0	20.0	28.0	17.5	22.5	14.0
27	10.0	7.0	16.5	13.5	16.0	--	29.0	20.0	27.0	17.5	22.5	13.5
28	11.5	7.5	16.5	12.5	26.5	15.5	29.5	19.5	26.5	18.0	22.0	13.5
29	13.0	9.0	16.0	13.0	29.0	17.5	29.0	19.5	23.5	18.5	21.0	14.5
30	13.0	10.0	16.0	11.5	27.5	18.0	29.5	18.0	24.0	18.5	21.0	13.0
31	--	--	17.5	12.5	--	--	29.0	19.0	26.5	18.5	--	--
MONTH	13.0	6.0	17.5	8.0	--	--	30.0	12.0	30.5	15.0	27.0	13.0

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER MEAN DISCHARGE (CFS)	OCTOBER MEAN CONCEN-TRATION (MG/L)	OCTOBER SEDIMENT DISCHARGE (TONS/DAY)	NOVEMBER MEAN DISCHARGE (CFS)	NOVEMBER MEAN CONCEN-TRATION (MG/L)	NOVEMBER SEDIMENT DISCHARGE (TONS/DAY)	DECEMBER MEAN DISCHARGE (CFS)	DECEMBER MEAN CONCEN-TRATION (MG/L)	DECEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	12	1	.03	244	50	33	2820	4000	30500
2	11	1	.03	233	45	28	1520	2650	10900
3	10	1	.03	230	45	28	1180	1600	5100
4	9.8	1	.03	250	100	68	914	970	2390
5	9.8	1	.03	934	887	2440	898	1000	2420
6	16	12	.52	1200	1150	4730	882	710	1690
7	33	13	1.2	942	1290	3620	1010	980	2810
8	18	3	.15	1140	1750	5390	786	550	1170
9	24	2	.13	900	1500	3650	700	376	711
10	16	2	.09	1150	1310	5010	624	270	455
11	12	2	.06	2030	2170	12400	721	509	1040
12	9.9	2	.05	1900	2660	15400	756	432	937
13	8.8	2	.05	2410	2410	12700	993	737	1990
14	8.3	2	.04	1660	1650	7400	770	594	1230
15	7.7	2	.04	1320	1890	6740	700	544	1030
16	7.3	2	.04	1600	2000	8640	693	520	973
17	6.8	2	.04	1190	1950	6270	1130	822	2540
18	6.4	3	.05	1110	650	1950	818	630	1390
19	6.3	3	.05	774	250	522	665	510	916
20	12	7	.23	1150	1280	4300	914	1290	3520
21	140	136	77	1070	700	2020	1680	2800	13200
22	627	1890	3960	882	480	1140	966	1290	3360
23	2470	5970	50900	802	724	1810	786	680	1440
24	952	2100	5400	958	760	1970	763	580	1190
25	627	520	880	887	380	910	818	560	1240
26	456	335	412	834	320	721	749	586	1220
27	368	220	219	1130	800	2440	1030	1160	3640
28	323	120	105	1080	850	2480	1070	1130	3260
29	290	70	55	1700	2080	10200	1340	1330	4930
30	263	60	43	3670	5430	53900	890	820	1970
31	244	50	33	---	---	---	714	540	1040
MONTH	7005.1	---	62086.89	35380	---	178910	30300	---	110202

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	600	380	616	651	350	615	2070	1550	9200
2	522	240	338	742	400	801	1270	1100	3770
3	450	200	243	570	220	339	841	510	1160
4	390	160	168	475	150	192	675	350	638
5	360	130	126	455	140	172	598	248	400
6	329	110	98	410	120	133	621	225	377
7	312	100	84	370	90	90	615	180	299
8	284	90	69	351	80	76	551	130	193
9	260	80	56	329	70	62	442	110	131
10	244	70	46	300	60	49	401	110	119
11	244	70	46	288	50	39	475	731	1340
12	292	74	58	296	50	40	719	750	1460
13	440	190	226	280	50	38	564	420	640
14	700	440	832	276	40	30	570	500	770
15	1150	2370	12400	292	36	28	551	350	521
16	3560	6390	63200	338	36	33	497	250	335
17	1790	2890	14000	312	31	26	453	180	220
18	1180	1040	3310	1760	2520	15200	416	130	146
19	1200	1000	3240	1250	2390	8070	358	80	77
20	957	640	1650	749	1100	2220	314	68	58
21	794	510	1090	714	550	1060	275	65	48
22	700	400	756	644	350	609	253	63	43
23	637	290	499	546	270	398	230	58	36
24	570	215	331	485	220	288	214	56	32
25	505	175	239	425	170	195	233	60	38
26	470	150	190	574	250	387	214	53	31
27	430	130	151	477	170	219	319	159	174
28	400	110	119	2130	2720	18300	393	210	223
29	375	100	101	---	---	---	2010	3110	22200
30	360	90	87	---	---	---	2710	2850	23700
31	347	80	75	---	---	---	1510	1510	6490
MONTH	20852	---	104444	16489	---	49709	21362	---	74869

	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	3710	5010	51100	123	50	17	51	3	.41
2	1910	2550	13200	114	45	14	49	3	.40
3	1160	1670	5230	108	40	12	48	3	.39
4	769	1200	2490	102	40	11	53	3	.43
5	682	900	1660	99	40	11	50	3	.41
6	573	490	758	98	40	11	47	3	.38
7	462	405	505	104	40	11	44	3	.36
8	414	380	425	98	40	11	42	3	.34
9	381	338	348	95	35	9.0	40	3	.32
10	332	290	260	90	30	7.3	38	3	.31
11	291	250	196	88	30	7.1	36	2	.19
12	260	215	151	86	30	7.0	36	2	.19
13	232	187	117	83	29	6.5	34	2	.18
14	211	175	100	81	25	5.5	35	2	.19
15	198	160	86	85	30	6.9	36	2	.19
16	187	137	69	84	30	6.8	38	2	.21
17	179	130	63	86	30	7.0	34	2	.18
18	196	140	74	82	25	5.5	35	7	.66
19	181	130	64	78	20	4.2	36	6	.58
20	160	100	43	74	17	3.4	33	6	.53
21	149	80	32	72	14	2.7	32	6	.52
22	143	70	27	69	12	2.2	32	5	.43
23	147	65	26	67	10	1.8	31	5	.42
24	153	70	29	65	7	1.2	31	5	.42
25	156	70	29	63	5	.85	30	5	.41
26	149	70	28	62	5	.84	29	5	.39
27	141	65	25	61	5	.82	26	5	.35
28	136	60	22	59	4	.64	24	5	.32
29	129	55	19	58	4	.63	22	5	.30
30	126	50	17	56	4	.60	22	5	.30
31	---	---	---	53	4	.57	---	---	---
MONTH	13917	---	77193	2543	---	187.05	1094	---	10.71

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	20	5	.27	8.7	2	.05	5.2	2	.03
2	20	5	.27	8.3	2	.04	5.1	2	.03
3	19	6	.31	8.0	2	.04	4.6	2	.02
4	19	5	.26	7.7	2	.04	4.3	2	.02
5	19	5	.26	8.1	2	.04	4.3	2	.02
6	19	5	.26	8.7	2	.05	4.3	2	.02
7	19	4	.21	8.3	2	.04	4.3	2	.02
8	19	4	.21	7.6	2	.04	3.9	2	.02
9	19	4	.21	7.3	2	.04	3.9	2	.02
10	19	3	.15	7.0	2	.04	3.9	2	.02
11	19	3	.15	6.4	2	.03	3.9	2	.02
12	19	2	.10	6.2	2	.03	3.9	2	.02
13	18	2	.10	6.2	2	.03	3.9	2	.02
14	17	2	.09	5.7	2	.03	3.9	2	.02
15	17	2	.09	5.6	2	.03	3.6	2	.02
16	15	2	.08	5.6	2	.03	3.6	2	.02
17	15	2	.08	5.6	2	.03	3.6	2	.02
18	15	4	.16	5.6	2	.03	3.6	2	.02
19	15	3	.12	5.6	2	.03	3.6	2	.02
20	14	3	.11	5.6	2	.03	3.5	2	.02
21	12	3	.10	5.6	2	.03	3.5	2	.02
22	12	3	.10	5.6	2	.03	3.5	2	.02
23	12	3	.10	5.6	2	.03	3.5	2	.02
24	12	3	.10	5.6	2	.03	3.5	2	.02
25	11	3	.09	5.6	2	.03	3.5	2	.02
26	9.4	3	.08	5.2	2	.03	3.5	2	.02
27	9.4	2	.05	5.2	2	.03	3.5	2	.02
28	9.4	2	.05	5.2	2	.03	3.5	2	.02
29	9.4	2	.05	5.2	2	.03	3.5	2	.02
30	9.0	2	.05	5.2	2	.03	3.5	2	.02
31	8.7	2	.05	5.2	2	.03	---	---	---
MONTH	470.3	---	4.31	197.0	---	1.05	115.9	---	.62
YEAR	149725.3		657617.63						

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	7005.10	62086.89	12700	74800
NOVEMBER ...	35380.00	178910.00	92800	272000
DECEMBER ...	30300.00	110202.00	64800	175000
JANUARY 1974	20852.00	104444.00	38100	143000
FEBRUARY ...	16489.00	49709.00	25200	74900
MARCH	21362.00	74869.00	41200	116000
APRIL	13917.00	77193.00	26700	104000
MAY	2543.00	187.05	2	189
JUNE	1094.00	10.71	0	11
JULY	470.30	4.31	0	4
AUGUST	197.00	1.05	0	1
SEPTEMBER ..	115.90	0.62	0	1
TOTAL	149725.30	657617.63	301502	959906

********** PUBLISH SUMMARY TABLE FOR ALL TOTAL LOAD STATIONS.
PLACE TABLE FOLLOWING TABLES OF SUSPENDED-SEDIMENT DISCHARGE.
VERIFY AGREEMENT OF TOTALS WITH VALUES PUBLISHED IN SURFACE WATER AND WATER QUALITY TABLES.

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT.											
21...	1510	--	264	304	217	44	58	70	81	87	--
22...	1530	13.5	786	2260	4800	18	28	35	44	55	65
23...	1135	--	4460	10800	130000	18	24	30	40	51	58
26...	1330	--	445	325	390	32	43	54	64	71	--
NOV.											
13...	1120	9.0	2090	3750	21200	13	19	26	34	42	50
13...	1410	9.0	2310	3340	20800	17	23	29	39	49	57
DEC.											
02...	1605	8.0	1420	2570	9850	8	13	18	26	31	36
09...	2305	7.5	546	307	453	--	--	--	--	--	--
JAN.											
12...	0940	5.0	252	70	48	--	--	--	--	--	--
13...	1200	8.0	504	319	434	37	44	54	65	72	77
16...	1250	9.0	5030	8560	116000	19	27	36	47	59	68
16...	1535	9.0	3770	7880	80200	15	22	29	38	47	55
17...	1430	8.0	1590	2360	10100	19	26	35	46	56	64
FEB.											
21...	0820	6.0	670	549	993	22	32	45	55	66	73
MAR.											
03...	0900	5.0	880	520	1240	18	27	39	52	61	70
APR.											
03...	1315	6.5	1090	1620	4770	22	30	41	50	59	66
MAY											
13...	1200	9.5	83	29	6.5	--	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.											
21...	90	--	93	--	98	--	99	--	100	--	--
22...	--	84	--	100	--	--	--	--	--	--	--
23...	--	74	--	89	--	98	--	100	--	--	--
26...	74	--	78	--	86	--	96	--	99	--	100
NOV.											
13...	--	62	--	80	--	96	--	100	--	--	--
13...	--	69	--	85	--	97	--	99	--	100	--
DEC.											
02...	--	44	--	57	--	83	--	100	--	--	--
09...	62	--	63	--	71	--	81	--	91	--	96
JAN.											
12...	83	--	87	--	91	--	96	--	100	--	--
13...	--	82	--	90	--	97	--	100	--	--	--
16...	--	83	--	94	--	99	--	100	--	--	--
16...	--	68	--	84	--	98	--	100	--	--	--
17...	--	74	--	87	--	98	--	100	--	--	--
FEB.											
21...	--	79	--	87	--	98	--	100	--	--	--
MAR.											
03...	--	76	--	84	--	97	--	100	--	--	--
APR.											
03...	--	72	--	79	--	95	--	100	--	--	--
MAY											
13...	76	--	77	--	81	--	87	--	92	--	100

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
NOV.									
13...	1450	9.0	5	2070	108	8800	1	2	8
JAN.									
12...	0945	5.0	13	252	84	133	--	--	2
17...	1330	8.0	5	1540	103	2630	1	4	15
FEB.									
21...	0855	6.0	7	670	94	675	--	2	11
MAR.									
03...	1110	5.0	5	860	94	1950	--	1	4
APR.									
03...	1400	6.5	5	1120	96	6900	--	1	5
MAY									
13...	1200	9.5	--	83	65	.00	--	--	--
SEP.									
03...	1500	24.5	--	4.7	14	.00	--	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
NOV.								
13...	16	28	43	60	91	100	--	--
JAN.								
12...	9	40	76	93	100	--	--	--
17...	29	39	49	60	82	92	100	--
FEB.								
21...	37	59	75	82	91	100	--	--
MAR.								
03...	13	18	26	39	84	100	--	--
APR.								
03...	12	22	36	49	68	91	91	100
MAY								
13...	--	--	--	--	--	--	--	--
SEP.								
03...	--	--	--	--	--	--	--	--

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.

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), at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).
Water temperatures: October 1973 to September 1974.
Sediment records: Water years 1971 to current year (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 27.5°C June 29; minimum, 3.5°C Jan. 10.

REMARKS.--No thermograph record Nov. 11-16, recorder stopped; Apr. 17 to May 17, June 5-7, Aug. 10 to Sept. 30, recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV.										
08...	0815	6770	5.4	30	70	11	1.0	2.2	.9	33
JAN.										
13...	1230	966	6.5	--	--	--	--	--	--	35
FEB.										
20...	2100	2590	6.0	40	30	8.5	1.0	2.6	.5	33
21...	1530	2690	5.6	--	90	9.3	1.0	2.5	.5	32
22...	1200	2130	5.8	30	30	10	1.3	2.2	.6	34
MAR.										
02...	1615	3140	6.3	40	40	9.6	1.3	2.4	.5	33
JULY										
19...	1200	40	5.1	20	30	30	2.4	2.9	.8	88
22...	1230	35	5.0	50	50	32	2.6	3.9	1.0	91
26...	1000	30	--	--	--	--	--	--	--	--
SEP.										
11...	1315	11	4.0	0	20	40	4.3	4.8	1.5	103
13...	1300	10	4.1	10	20	40	2.9	4.8	1.3	104

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 NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
NOV.										
08...	0	27	5.5	2.2	.1	.07	.00	.07	.19	.03
JAN.										
13...	0	29	6.3	2.6	.1	.02	.00	.02	.47	.02
FEB.										
20...	0	29	5.0	2.7	.1	.09	.00	.09	.24	.01
21...	0	26	5.2	2.6	.1	.09	.01	.10	.25	.01
22...	0	28	4.7	2.1	.1	.02	.00	.02	.16	.02
MAR.										
02...	0	27	5.7	2.9	.1	.06	.00	.06	.15	.19
JULY										
19...	0	73	21	2.7	--	.00	.00	.00	.00	.03
22...	0	75	22	2.3	--	.01	.00	.01	.03	.01
26...	--	--	--	--	--	--	--	--	--	--
SEP.										
11...	0	84	29	3.8	--	.09	.00	.09	.06	1.0
13...	1	87	29	3.4	--	.00	.00	.00	.03	.01

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
NOV.										
08...	.02	45	.06	823	32	5	13	.2	69	--
JAN.										
13...	.01	--	--	--	--	--	--	--	80	6.8
FEB.										
20...	.00	43	.06	301	25	0	18	.2	71	6.8
21...	.00	43	.06	312	27	1	16	.2	68	--
22...	.00	44	.06	253	30	2	13	.2	71	--
MAR.										
02...	.17	46	.06	390	29	2	15	.2	68	--
JULY										
19...	--	108	.15	11.7	85	13	7	.1	179	8.1
22...	--	114	.16	10.8	91	16	8	.2	196	7.2
26...	--	--	--	--	--	--	--	--	--	--
SEP.										
11...	--	139	.19	4.13	120	33	8	.2	--	--
13...	--	138	.19	3.76	110	25	8	.2	250	8.5

DATE	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO_2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
NOV.									
08...	--	--	--	--	--	--	--	7.5	--
JAN.									
13...	--	--	11.6	8.8	--	--	--	--	--
FEB.									
20...	8.0	190	--	8.3	--	--	--	1.6	.5
21...	8.0	--	--	--	--	--	--	--	--
22...	6.0	--	--	--	B8	<1	--	.8	--
MAR.									
02...	7.0	--	--	--	--	--	--	--	.3
JULY									
19...	22.0	--	8.6	1.1	--	B5	B2	1.0	.1
22...	21.0	--	--	9.2	--	--	--	2.3	.1
26...	--	--	--	--	--	B2	26	--	--
SEP.									
11...	21.0	--	--	--	--	<1	B12	1.8	.1
13...	19.0	--	9.0	.5	--	--	--	1.7	.0

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	DDD IN BOTTOM MA-TERIAL (UG/KG)	DDE IN BOTTOM MA-TERIAL (UG/KG)	DDT IN BOTTOM MA-TERIAL (UG/KG)	DI-AZINON IN BOTTOM MA-TERIAL (UG/KG)	DI-ELDRIN IN BOTTOM MA-TERIAL (1G/KG)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)
JULY											
01...	1200	.0	0	.0	.0	.0	.0	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	MALA-THION IN BOTTOM MA-TERIAL (UG/KG)	METHYL PARA-THION IN BOT-TOM MA-TERIAL (UG/KG)	METHYL TRI-THION IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION IN BOTTOM MA-TERIAL (UG/KG)	PCB IN BOTTOM MA-TERIAL (UG/KG)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TRI-THION IN BOTTOM MA-TERIAL (UG/KG)	2,4-D IN BOTTOM MA-TERIAL (UG/KG)	2,4,5-T IN BOTTOM MA-TERIAL (UG/KG)	SILVEX IN BOTTOM MA-TERIAL (UG/KG)
JULY											
01...	.0	.0	.0	.0	.0	0	0	.0	0	0	0

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV.				
08...	0815	2	6	30
FEB.				
20...	2100	0	4	20
21...	1530	0	9	--
22...	1200	--	--	10
MAR.				
02...	1615	0	8	30
JULY				
19...	1200	0	5	0
22...	1230	<1	31	10
SEP.				
11...	1315	<1	0	10
13...	1300	<1	2	10

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT.											
01...	1250	--	47	31	3.9	--	--	--	--	--	--
NOV.											
07...	1720	12.0	3000	1280	10400	17	24	33	43	50	58
08...	1155	12.5	5590	2150	32500	20	25	35	47	59	67
08...	1210	12.5	5530	2280	34000	--	--	--	--	--	--
09...	1345	12.5	3540	1170	11200	16	23	31	40	49	57
13...	1410	9.0	7300	3560	70200	--	--	--	--	--	--
16...	1335	11.0	5510	1520	22600	18	27	38	50	61	72
30...	1530	--	9600	3940	102000	19	23	34	44	57	66
JAN.											
12...	1600	7.0	779	315	657	17	20	27	33	40	--
13...	0200	7.5	820	475	1050	--	--	--	--	--	--
13...	1045	8.0	940	484	1230	17	21	27	34	39	--
17...	1400	9.5	4830	2570	33500	14	20	27	34	44	52
FEB.											
20...	2100	8.0	2590	1070	7480	--	--	--	--	--	--
21...	0500	--	2400	893	5790	--	--	--	--	--	--
21...	1210	8.0	2580	952	6630	13	19	25	33	39	44
21...	1930	8.0	2550	1130	7780	--	--	--	--	--	--
22...	1110	6.0	2150	618	3590	17	27	34	43	48	54
MAR.											
01...	1730	7.5	4320	2840	33100	19	25	36	47	59	69
02...	0330	7.0	3640	1320	13000	--	--	--	--	--	--
02...	1200	6.5	3250	1190	10400	15	23	33	42	49	56
MAY											
17...	1330	12.0	237	19	12	--	--	--	--	--	--
JUNE											
27...	1240	19.0	59	2	.32	--	--	--	--	--	--
JULY											
19...	1220	22.0	40	8	.86	--	--	--	--	--	--
22...	1330	--	35	10	.95	--	--	--	--	--	--
SEP.											
06...	1400	22.0	12	1	.03	--	--	--	--	--	--
11...	1240	20.5	11	6	.18	--	--	--	--	--	--
13...	1330	19.0	10	4	.11	--	--	--	--	--	--

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.											
01...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
07...	--	66	--	78	--	95	--	100	--	--	--
08...	--	78	--	90	--	99	--	100	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
09...	--	65	--	78	--	91	--	99	--	100	--
13...	42	--	--	--	--	--	--	--	--	--	--
16...	--	79	--	88	--	93	--	100	--	--	--
30...	--	79	--	90	--	98	--	100	--	--	--
JAN.											
12...	45	--	50	--	54	--	65	--	74	--	83
13...	29	--	40	--	59	--	76	--	86	--	100
13...	42	--	47	--	53	--	61	--	72	--	82
17...	--	62	--	74	--	82	--	96	--	100	--
FEB.											
20...	40	--	--	--	--	--	--	--	--	--	--
21...	47	--	--	--	--	--	--	--	--	--	--
21...	--	52	--	66	--	79	--	95	--	100	--
21...	57	--	--	--	--	--	--	--	--	--	--
22...	--	59	--	68	--	80	--	98	--	100	--
MAR.											
01...	--	79	--	89	--	97	--	100	--	--	--
02...	65	--	--	--	--	--	--	--	--	--	--
02...	--	64	--	76	--	88	--	98	--	100	--
MAY											
17...	88	--	93	--	97	--	100	--	--	--	--
JUNE											
27...	--	--	--	--	--	--	--	--	--	--	--
JULY											
19...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
06...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
OCT.								
01...	1250	--	--	47	--	.00	--	--
NOV.								
07...	1730	12.0	5	2990	132	4420	--	1
08...	1230	12.5	7	5460	147	16000	--	1
16...	1420	11.0	5	5520	142	7120	--	1
30...	1500	--	5	10100	112	5110	1	3
JAN.								
12...	1700	7.0	5	787	44	251	--	1
13...	1130	8.0	5	959	54	1500	--	1
17...	1450	9.5	5	5040	146	10200	--	2
FEB.								
21...	1300	8.0	5	2640	136	1720	--	3
22...	1145	6.0	5	2140	138	1100	--	2
MAR.								
02...	1215	6.5	5	3240	143	12700	--	2
MAY								
17...	1330	12.0	--	237	88	.00	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
OCT.								
01...	--	--	--	--	--	--	--	--
NOV.								
07...	7	17	29	46	64	92	100	--
08...	6	13	27	49	71	97	100	--
16...	5	10	21	38	55	75	79	100
30...	10	27	48	59	70	96	100	--
JAN.								
12...	3	13	39	69	90	100	--	--
13...	4	16	59	91	96	100	--	--
17...	9	20	35	57	67	89	100	--
FEB.								
21...	8	20	33	49	64	89	100	--
22...	8	26	49	70	85	99	100	--
MAR.								
02...	5	13	25	45	65	90	100	--
MAY								
17...	--	--	--	--	--	--	--	--

11482500 REDWOOD CREEK AT ORICK, CALIF.

LOCATION.--Lat 41°17'18", long 124°03'27", in NE¼NE¼ sec.4, T.10 N., R.1 E., Humboldt County, at gaging station at 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).

PERIOD OF RECORD.--Chemical analyses: November 1958 to September 1966, October 1972 to current year.
Water temperatures: October 1965 to current year.
Sediment records: Water years 1955-56 (partial-record station), March 1970 to current year.

EXTREMES.--Current year:
Sediment concentrations: Maximum daily, 5,070 mg/l Oct. 23; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 226,000 tons (205,000 tonnes) Apr. 1; minimum daily, 0.06 ton (0.05 tonne) on several days during September.
Period of record:
Water temperatures: Maximum (1969-71, 1972-73), 23.5°C Aug. 25, 28, 1973; minimum (1965-73), 1.0°C Dec. 14, 1967.
Sediment concentrations: Maximum daily, 8,840 mg/l Mar. 3, 1972; minimum daily, 1 mg/l on many days in 1970, 1973-74.
Sediment discharge: Maximum daily, 861,000 tons (781,000 tonnes) Mar. 2, 1972; minimum daily, 0.03 ton (0.03 tonne) Oct. 7, 8, 11, 12, 1970.

REMARKS.--Selected chemical-quality records furnished by California Department of Water Resources. No thermograph record Nov. 7 to Jan. 10, Feb. 7 to June 28, recorder malfunction; Jan. 21-25, June 29 to Sept. 10, recorder stopped. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)
OCT.											
01...	1430	65	--	--	--	--	--	--	--	6.4	--
NOV.											
13...	1545	9590	--	--	--	--	--	8.9	1.0	2.8	2.0
JAN.											
13...	1250	1510	6.4	10	--	140	--	11	1.3	3.0	.5
15...	0830	6300	--	--	--	--	--	--	--	2.7	--
FEB.											
21...	1300	3570	5.8	40	--	50	--	9.1	1.1	2.6	.5
APR.											
01...	1435	23800	--	--	228000	--	5000	--	--	3.0	--
JULY											
19...	1200	63	7.7	20	--	100	--	24	2.2	3.9	.8
24...	1400	51	7.2	10	--	90	--	23	2.8	5.0	.8
26...	1015	47	--	--	--	--	--	--	--	--	--
SEP.											
11...	1200	17	8.3	0	--	120	--	21	2.7	5.5	1.0
17...	1645	13	8.9	10	--	370	--	20	2.8	5.7	.8

DATE	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)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT.										
01...	89	0	73	--	5.0	--	--	--	--	--
NOV.										
13...	26	0	21	8.4	2.6	--	.09	--	--	--
JAN.										
13...	34	0	28	5.7	3.2	.1	--	.03	.00	.03
15...	27	0	22	--	1.6	--	--	--	--	--
FEB.										
21...	31	0	24	4.2	2.6	.0	--	1.0	.00	1.0
APR.										
01...	27	0	22	--	2.5	--	.07	--	--	--
JULY										
19...	74	0	65	15	5.8	--	--	.03	.00	.03
24...	75	0	51	13	5.1	--	--	.03	.00	.03
26...	--	--	--	--	--	--	--	--	--	--
SEP.										
11...	71	0	58	9.3	5.9	--	--	.00	.00	.00
17...	68	0	56	8.6	6.7	--	--	.01	.00	.01

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED KJEL. NITRO-GEN (N) (MG/L)	DIS-SOL-VED-PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (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)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM
OCT.										
01...	--	--	--	--	--	--	--	96	23	--
NOV.										
13...	--	--	--	63	--	.09	1630	26	5	17
JAN.										
13...	.27	.01	.00	--	48	.07	196	33	5	16
15...	--	--	--	--	--	--	--	26	4	--
FEB.										
21...	.20	.01	.01	--	46	.06	443	27	2	17
APR.										
01...	--	--	.02	--	--	--	--	29	7	--
JULY										
19...	.07	.07	--	--	96	.13	16.3	69	8	11
24...	.00	.00	--	--	94	.13	12.9	69	7	13
26...	--	--	--	--	--	--	--	--	--	--
SEP.										
11...	.24	.00	--	--	89	.12	4.09	64	5	16
17...	.14	.03	--	--	87	.12	3.05	61	6	17

DATE	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.										
01...	.3	220	7.4	18.5	1	10.8	5.7	--	--	--
NOV.										
13...	.2	63	7.3	10.0	380	12.1	2.1	--	--	--
JAN.										
13...	.2	79	--	8.0	--	--	--	--	--	--
15...	.2	63	8.4	10.5	320	12.0	.2	--	--	--
FEB.										
21...	.2	73	6.7	7.5	--	11.5	9.9	B4	B24	--
APR.										
01...	.2	57	7.4	9.5	1600	12.3	1.7	--	--	--
JULY										
19...	.2	161	7.4	19.0	--	9.8	4.7	--	46	32
24...	.3	148	7.5	22.0	1	9.7	3.8	--	--	--
26...	--	--	--	--	--	--	--	--	B13	160
SEP.										
11...	.3	125	7.6	19.0	--	9.0	2.9	--	B14	62
17...	.3	159	6.4	17.0	--	9.4	43	--	--	--

DATE	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.										
01...	--	--	100	--	--	--	--	--	--	--
NOV.										
13...	--	--	0	--	--	--	--	--	--	--
JAN.										
13...	1.8	.3	--	--	1	--	4	--	--	10
15...	--	--	100	--	--	--	--	--	--	--
FEB.										
21...	1.2	--	--	--	0	--	4	--	--	20
APR.										
01...	--	--	100	10	--	370	--	120	670	--
JULY										
19...	1.8	.2	--	--	1	--	4	--	--	10
24...	1.6	.2	--	--	0	--	2	--	--	10
26...	--	--	--	--	--	--	--	--	--	--
SEP.										
11...	1.7	.1	--	--	0	--	0	--	--	10
17...	1.2	.1	--	--	1	--	1	--	--	0

B RESULTS BASED ON COLONY COUNT OUTSIDE THE ACCEPTABLE RANGE (NON-IDEAL COLONY COUNT).

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	18.5	-- 12.5	13.0	-- 11.0	-- --	--	-- 7.5	--	9.0	-- 6.5	-- 7.5	--
2	18.5	-- 11.5	13.0	-- 10.0	-- --	--	-- 6.5	--	8.0	-- 6.5	-- 6.5	--
3	18.0	-- 13.5	12.0	-- 9.0	-- 9.5	--	-- 7.0	--	8.0	-- 7.0	-- --	--
4	18.0	-- 11.0	9.5	-- 9.0	-- 9.5	--	-- 6.5	--	8.0	-- 7.0	-- --	--
5	17.5	-- 11.5	11.0	-- 9.0	-- 9.0	--	-- 5.5	--	7.5	-- 6.5	-- 8.5	--
6	15.0	-- 12.5	11.5	-- 10.5	-- 11.0	--	-- 5.5	--	7.5	-- 5.5	-- 8.0	--
7	18.0	-- 13.0	-- 12.0	--	-- 11.5	--	-- 5.5	--	-- 8.5	--	-- 8.0	--
8	14.0	-- 11.5	-- 13.0	--	-- --	--	-- --	--	-- 7.0	--	-- 7.0	--
9	17.5	-- 11.5	-- 13.5	--	-- 9.0	--	-- --	--	-- 7.5	--	-- 7.0	--
10	17.0	-- 11.5	-- 13.5	--	-- 9.0	--	-- 4.5	--	-- --	--	-- 9.0	--
11	17.5	-- 11.5	-- 13.5	--	-- --	--	5.0 --	3.0	-- 8.5	--	-- 8.0	--
12	15.0	-- 12.0	-- 11.5	--	-- 10.0	--	6.5 --	5.0	-- 8.0	--	-- 8.0	--
13	17.5	-- 12.0	-- 10.0	--	-- 9.5	--	8.0 --	6.5	-- 6.5	--	-- 8.0	--
14	17.5	-- 12.5	-- 10.0	--	-- 10.0	--	9.0 --	7.5	-- 8.5	--	-- 9.0	--
15	17.0	-- 11.5	-- 11.5	--	-- 10.0	--	9.5 --	8.5	-- 9.5	--	-- 10.5	--
16	17.0	-- 11.5	-- 11.0	--	-- 11.0	--	10.0 --	8.5	-- 8.0	--	-- 11.0	--
17	17.0	-- 12.5	-- 9.0	--	-- 10.5	--	9.0 --	8.0	-- 8.0	--	-- 11.0	--
18	17.0	-- 12.0	-- 11.0	--	-- 9.0	--	8.5 --	8.0	-- 9.0	--	-- 13.0	--
19	14.0	-- 12.0	-- --	--	-- 9.0	--	9.0 --	8.0	-- 8.0	--	-- 10.0	--
20	15.0	-- 12.0	-- 9.0	--	-- 11.5	--	8.0 --	6.5	-- 8.5	--	-- 12.0	--
21	19.5	-- 13.5	-- 8.5	--	-- 10.5	--	-- 8.0	--	-- 7.5	--	-- 11.0	--
22	15.0	-- 13.0	-- --	--	-- 9.5	--	-- 8.0	--	-- 7.5	--	-- 10.0	--
23	14.0	-- 12.0	-- 9.0	--	-- 9.5	--	-- 8.5	--	-- 7.0	--	-- --	--
24	12.5	-- 11.0	-- 9.0	--	-- 10.5	--	-- --	--	-- 8.0	--	-- 11.5	--
25	11.0	-- 11.0	-- 9.0	--	-- 9.5	--	-- --	--	-- --	--	-- 13.5	--
26	12.0	-- 10.5	-- 9.0	--	-- 11.5	--	8.0 --	7.0	-- --	--	-- 13.0	--
27	12.0	-- 10.5	-- 10.0	--	-- 10.0	--	8.5 --	7.0	-- 8.0	--	-- 10.0	--
28	13.0	-- 11.0	-- 11.5	--	-- 10.0	--	8.0 --	6.5	-- 7.0	--	-- 11.0	--
29	14.0	-- 11.0	-- 11.0	--	-- 9.5	--	8.0 --	7.5	-- --	--	-- 11.0	--
30	13.5	-- 10.0	-- 11.5	--	-- 8.5	--	8.5 --	7.5	-- --	--	-- --	--
31	13.5	-- 10.5	-- --	--	-- 8.0	--	8.5 --	7.5	-- --	--	-- --	--
MONTH	19.5	-- 10.0	-- --	--	-- --	--	-- --	--	-- --	--	-- --	--

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

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	65	1	.18	618	44	73	10800	2020	58900
2	60	1	.16	555	25	37	6430	1350	23400
3	56	1	.15	618	34	57	4610	920	11500
4	51	1	.14	1070	356	1580	3670	625	6190
5	50	1	.14	5450	2450	36800	3130	515	4350
6	50	1	.14	6330	1980	34500	2810	450	3410
7	77	1	.21	5120	1180	16300	3590	790	7990
8	90	2	.49	8070	2710	63500	3280	465	4120
9	92	1	.25	5200	1380	19400	2640	325	2320
10	88	1	.24	5320	1180	16900	2240	270	1630
11	74	1	.20	7560	2000	41400	2680	513	3920
12	67	1	.18	9270	2040	52500	2640	446	3240
13	60	1	.16	8700	1780	41800	4110	1170	13100
14	56	1	.15	8370	1510	34100	3770	595	6060
15	54	1	.15	5730	980	15200	3010	310	2520
16	51	1	.14	6300	1500	25500	2740	310	2290
17	50	1	.14	5370	910	13200	4690	1180	15400
18	48	1	.13	5020	900	12200	3990	640	6890
19	47	2	.25	3690	400	3990	3130	320	2700
20	53	4	.57	4200	810	9190	4520	959	13900
21	848	525	2320	4810	810	10500	6930	1550	29200
22	2130	1260	8000	4240	600	6870	5020	930	12600
23	9670	5070	167000.0	3550	500	4790	3920	560	5930
24	5270	2100	33200	3960	990	10600	3640	565	5550
25	2530	690	4710	3580	550	5320	3800	635	6520
26	1440	395	1540	3810	600	6170	3320	480	4300
27	1030	240	667	4550	650	7990	4030	754	8450
28	888	200	480	4200	590	6690	5120	1190	16800
29	758	91	186	7300	800	15800	5660	1140	17400
30	625	84	142	14000	3380	128000	5150	640	8900
31	548	57	84	---	---	---	3920	335	3550
MONTH	26976	---	218333.17	156561	---	640957	128990	---	313030

	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	3240	294	2570	2860	897	7030	4810	1590	20600
2	2650	235	1680	3100	340	2850	4610	1060	13200
3	2230	200	1200	2150	220	1280	3730	769	7740
4	1880	155	787	1600	185	799	3060	531	4390
5	1640	144	638	1350	145	529	2610	356	2510
6	1470	145	576	1170	105	332	3000	415	3360
7	1280	125	432	1020	99	273	3130	417	3520
8	1130	120	366	899	88	214	2530	312	2130
9	1000	117	316	788	60	128	2180	232	1370
10	881	115	274	708	52	99	1960	188	995
11	788	110	234	640	48	83	2210	276	1690
12	1030	195	542	662	55	98	3200	602	5460
13	1380	336	1290	640	50	86	3180	445	3820
14	2640	1050	9000	555	35	52	2920	307	2420
15	6840	1690	31600	529	25	36	2730	271	2000
16	13200	3320	122000	1230	381	1320	2380	214	1380
17	8280	1920	42900	1340	160	579	2110	198	1130
18	5320	1070	15400	3180	1590	22500	1890	166	847
19	5040	800	10900	8180	3080	74400	1670	151	681
20	3820	520	5360	4080	935	10300	1480	139	555
21	3640	350	3440	3440	768	7130	1300	135	474
22	3050	300	2470	3090	486	4060	1160	110	345
23	2350	233	1480	2550	381	2620	1040	104	292
24	1870	185	934	2220	325	1950	931	96	241
25	1580	155	661	1990	253	1360	939	121	307
26	1400	117	442	2260	388	2510	880	87	208
27	1190	114	366	2230	325	1960	1000	205	554
28	1040	109	306	4060	2160	29800	1540	624	2620
29	917	82	203	---	---	---	4650	2750	48900
30	813	62	136	---	---	---	11000	3940	124000
31	1260	279	1200	---	---	---	5830	1200	18900
MONTH	84849	---	259703	58521	---	174378	85660	---	276639

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	16400	4460	226000	540	21	31	178	2	.96
2	8890	2750	66000	515	18	25	172	2	.93
3	5460	1270	18700	489	16	21	166	2	.90
4	4030	791	8610	462	15	19	165	4	1.8
5	3620	666	6510	436	14	16	176	4	1.9
6	3250	564	4950	420	12	14	173	2	.93
7	2690	394	2860	403	14	15	163	4	1.8
8	2450	385	2550	384	12	12	155	3	1.3
9	2470	385	2570	363	10	9.8	149	3	1.2
10	2130	286	1640	346	10	9.3	144	1	.39
11	1910	228	1180	331	8	7.1	140	1	.38
12	1730	185	864	320	8	6.9	136	1	.37
13	1550	138	578	305	8	6.6	135	1	.36
14	1390	103	387	295	6	4.8	133	1	.36
15	1250	88	297	285	6	4.6	132	1	.36
16	1150	81	252	313	6	5.1	130	1	.35
17	1060	66	189	325	10	8.8	138	1	.37
18	1080	64	187	327	11	9.7	135	4	1.5
19	1000	61	165	291	8	6.3	130	3	1.1
20	876	50	118	269	5	3.6	130	3	1.1
21	803	43	93	255	4	2.8	126	3	1.0
22	755	37	75	244	6	4.0	121	3	.98
23	747	36	73	235	5	3.2	117	3	.95
24	738	38	76	226	3	1.8	113	3	.92
25	731	45	89	217	2	1.2	110	3	.89
26	704	42	80	209	4	2.3	107	3	.87
27	649	34	60	203	3	1.6	100	3	.81
28	614	27	45	200	4	2.2	100	3	.81
29	584	25	39	193	4	2.1	94	3	.76
30	554	23	34	188	2	1.0	85	3	.69
31	---	---	---	184	3	1.5	---	---	---
MONTH	71265	---	345271	9773	---	259.3	4053	---	27.04

	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	80	3	.65	41	3	.33	22	2	.12
2	77	3	.62	39	3	.32	22	2	.12
3	76	3	.62	36	3	.29	21	2	.11
4	75	3	.61	34	3	.28	20	2	.11
5	74	3	.60	33	3	.27	19	2	.10
6	72	3	.58	33	3	.27	19	2	.10
7	72	3	.58	32	3	.26	18	2	.10
8	81	3	.66	32	3	.26	17	5	.23
9	88	3	.71	30	3	.24	17	2	.09
10	82	3	.66	29	3	.23	16	2	.09
11	77	3	.62	28	3	.23	15	2	.08
12	73	4	.79	27	3	.22	15	2	.08
13	70	4	.76	26	5	.35	15	2	.08
14	68	4	.73	26	6	.42	14	2	.08
15	67	4	.72	25	7	.47	14	2	.08
16	64	3	.52	24	9	.58	14	2	.08
17	63	3	.51	24	5	.32	14	2	.08
18	63	4	.68	25	4	.27	14	2	.08
19	63	4	.68	25	3	.20	13	2	.07
20	62	4	.67	24	3	.19	13	2	.07
21	60	4	.65	23	4	.25	13	2	.07
22	56	4	.60	23	4	.25	13	2	.07
23	54	4	.58	22	4	.24	13	2	.07
24	51	3	.41	22	4	.24	13	2	.07
25	50	4	.54	22	3	.18	12	2	.06
26	47	4	.51	21	3	.17	12	2	.06
27	45	3	.36	21	3	.17	12	2	.06
28	45	3	.36	20	3	.16	12	2	.06
29	44	3	.36	20	3	.16	12	2	.06
30	42	3	.34	21	3	.17	12	2	.06
31	41	3	.33	21	3	.17	---	---	---
MONTH	1982	---	18.01	829	---	8.16	456	---	2.59
YEAR	629915.0		2228626.27						

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1973	26976.00	218333.17	14300	233000
NOVEMBER ...	156561.00	640957.00	117000	758000
DECEMBER ...	128990.00	313030.00	84600	398000
JANUARY 1974	84849.00	259703.00	46500	306000
FEBRUARY ...	58521.00	174378.00	26400	201000
MARCH	85660.00	276639.00	44800	321000
APRIL	71265.00	345271.00	38200	383000
MAY	9773.00	259.30	4	263
JUNE	4053.00	27.04	0	27
JULY	1982.00	18.01	0	18
AUGUST	829.00	8.16	0	8
SEPTEMBER ..	456.00	2.59	0	3
TOTAL	629915.00	2228626.27	371804	2600319

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT.											
21...	1735	13.5	1620	1090	4780	--	--	--	--	--	85
23...	1720	12.0	15400	7410	308000	22	31	43	57	71	84
NOV.											
04...	1710	9.5	1250	500	1690	--	--	--	--	--	86
05...	1025	11.0	6190	3740	62500	--	--	--	--	--	74
07...	1525	12.0	4290	1060	12300	20	25	35	45	56	65
09...	1045	13.5	4960	936	12500	--	--	--	--	--	76
11...	1135	13.5	8130	2630	57800	23	25	38	50	63	78
12...	1035	11.5	9930	2210	59300	19	28	37	50	63	78
13...	1040	10.0	7560	1490	30400	20	27	38	49	61	75
13...	1710	10.0	10300	2260	62900	24	26	37	48	61	75
24...	1130	9.0	4100	1020	11300	23	31	42	55	67	79
30...	1645	11.5	14100	3730	142000	22	29	41	54	67	84
DEC.											
17...	1610	10.5	5400	1700	24800	18	26	36	48	60	76
23...	0950	9.5	3820	502	5180	--	--	--	--	--	80
29...	1040	9.5	5750	1200	18600	--	--	--	--	--	75
30...	1045	8.5	5150	641	8920	17	24	36	50	62	--
31...	1200	8.0	3900	324	3410	--	--	--	--	--	--
JAN.											
01...	1530	7.5	3160	297	2540	--	--	--	--	--	--
03...	1650	7.0	2160	195	1140	--	--	--	--	--	--
06...	1825	5.5	1400	146	552	--	--	--	--	--	--
13...	1135	8.0	1530	480	1980	27	36	46	59	69	--
14...	1000	--	2070	872	4880	11	17	21	26	29	48
15...	0955	9.5	6300	1410	24000	18	27	39	52	63	78
16...	1120	10.0	13300	3300	119000	19	29	40	55	70	81
16...	1540	10.0	15400	4620	192000	22	30	41	54	68	82
17...	1030	9.0	8240	1950	43400	19	28	39	51	65	78
FEB.											
01...	1705	9.0	3000	781	6330	18	29	43	57	69	81
19...	0850	8.0	9820	3370	89400	21	29	41	54	69	81
21...	1620	7.5	3640	767	7540	15	20	28	37	46	54
MAR.											
01...	1220	7.5	4540	1390	17000	14	21	29	39	48	57
APR.											
01...	1005	--	22900	5230	323000	27	29	45	61	76	87
01...	1255	9.5	25900	5470	383000	21	32	46	60	75	80
04...	1240	10.0	4110	787	8730	20	25	35	46	58	66

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
OCT.										
21...	--	92	--	95	--	98	--	100	--	--
23...	--	94	--	100	--	--	--	--	--	--
NOV.										
04...	--	96	--	99	--	100	--	--	--	--
05...	--	92	--	100	--	--	--	--	--	--
07...	--	75	--	89	--	99	--	100	--	--
09...	--	88	--	100	--	--	--	--	--	--
11...	--	91	--	100	--	--	--	--	--	--
12...	--	90	--	99	--	100	--	--	--	--
13...	--	88	--	99	--	100	--	--	--	--
13...	--	89	--	98	--	100	--	--	--	--
24...	--	89	--	99	--	100	--	--	--	--
30...	--	94	--	100	--	--	--	--	--	--
DEC.										
17...	--	91	--	99	--	100	--	--	--	--
23...	--	89	--	99	--	100	--	--	--	--
29...	--	91	--	99	--	100	--	--	--	--
30...	71	--	80	--	92	--	99	--	100	--
31...	62	--	74	--	88	--	97	--	100	--
JAN.										
01...	76	--	85	--	94	--	99	--	100	--
03...	74	--	80	--	92	--	98	--	100	--
06...	69	--	77	--	87	--	98	--	100	--
13...	73	--	85	--	91	--	98	--	100	--
14...	--	59	--	69	--	97	--	100	--	--
15...	--	90	--	99	--	100	--	--	--	--
16...	--	92	--	99	--	100	--	--	--	--
16...	--	91	--	99	--	100	--	--	--	--
17...	--	90	--	99	--	100	--	--	--	--
FEB.										
01...	--	91	--	98	--	99	--	100	--	--
19...	--	90	--	99	--	100	--	--	--	--
21...	--	63	--	76	--	94	--	96	--	100
MAR.										
01...	--	65	--	78	--	91	--	99	--	100
APR.										
01...	--	96	--	99	--	100	--	--	--	--
01...	--	92	--	100	--	--	--	--	--	--
04...	--	75	--	85	--	99	--	100	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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 .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
OCT.								
04...	1305	15.5	--	54	72	.00	--	--
NOV.								
07...	1620	12.0	5	4200	186	752	1	3
JAN.								
13...	1200	8.0	5	1530	161	342	--	1
FEB.								
21...	1655	7.5	5	3670	165	5250	--	3
MAR.								
01...	1350	7.5	5	4670	187	4980	--	2
APR.								
04...	1320	10.0	5	3940	179	3170	--	1
MAY								
16...	1440	14.0	--	319	172	.00	--	--
JULY								
19...	1130	17.5	--	63	--	78	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
OCT.							
04...	--	--	--	--	--	--	--
NOV.							
07...	19	34	53	70	84	99	100
JAN.							
13...	10	28	44	67	90	100	--
FEB.							
21...	9	26	48	69	83	98	100
MAR.							
01...	6	16	34	57	75	97	100
APR.							
04...	12	30	55	76	89	98	100
MAY							
16...	--	--	--	--	--	--	--
JULY							
19...	--	--	--	--	--	--	--

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CALIF.

LOCATION.--Lat 41°55'41", long 122°26'35", in SE¼NE¼ sec.17, T.47 N., R.5 W., Siskiyou County, at gaging station 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 (11,992 km^2), approximately (not including Lost River and Klamath Lake basins).

PERIOD OF RECORD.--Chemical analyses: October 1961 to current year.
Water temperatures: October 1962 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 21.5°C Aug. 1, 2, 4, 5, 7; minimum, 1.0°C on several days during January.
Period of record:
Water temperatures: Maximum, 23.0°C Aug. 6, 1967, July 17-19, Aug. 8, 1972; minimum, 0.5°C on many days in 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No temperature record Sept. 4, 5.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED SODIUM (NA) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
MAY											
07...	1030	3240	410	20	11	67	0	55	1.4	.17	.40

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY										
07...	.08	.05	47	0	.7	100	0	0	0	10

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.							
15...	0945	1340	250	7.5	14.0	2	10.1
NOV.							
15...	0845	1820	194	6.9	9.0	5	8.0
DEC.							
04...	1140	3370	184	7.9	5.0	8	12.3
JAN.							
14...	1230	3920	183	7.2	3.0	30	13.5
FEB.							
05...	0950	5050	153	7.2	4.0	10	14.4
MAR.							
15...	0815	5120	201	7.6	--	15	13.7
APR.							
16...	0920	7580	143	7.7	9.0	10	12.6
MAY							
07...	1030	3240	146	7.6	14.0	6	10.6
JUNE							
05...	0930	845	145	8.2	16.5	4	8.6
JULY							
16...	1200	735	166	8.3	20.0	2	13.7
AUG.							
14...	0955	1030	156	8.3	21.0	2	8.8
SEP.							
13...	0745	1340	203	7.6	18.0	2	7.0

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	16.5	12.0	12.0	7.0	6.0	4.0	4.0	4.0	3.5	5.0	4.5
2	16.5	16.0	12.0	12.0	6.5	6.5	4.0	3.0	4.0	3.5	5.0	4.5
3	16.0	15.5	12.0	11.5	6.5	6.5	3.0	3.0	3.5	3.5	4.5	4.5
4	15.5	15.5	11.5	11.0	6.5	6.0	3.0	2.5	3.5	3.5	4.5	4.5
5	15.5	15.5	11.0	10.5	6.0	6.0	2.5	2.5	3.5	3.5	4.5	4.5
6	15.5	15.0	10.5	10.5	6.0	6.0	2.5	1.5	4.0	3.5	5.0	4.5
7	15.0	15.0	10.5	10.5	6.0	6.0	2.0	1.5	4.0	4.0	4.5	4.5
8	15.0	15.0	10.5	10.5	6.0	6.0	1.5	1.0	4.0	4.0	5.0	4.5
9	15.0	15.0	10.5	10.0	6.0	6.0	1.5	1.0	4.0	4.0	5.0	5.0
10	15.0	14.5	10.0	10.0	6.0	5.5	1.0	1.0	4.0	4.0	5.0	5.0
11	15.0	14.5	10.0	10.0	5.5	5.0	1.0	1.0	4.0	4.0	5.0	5.0
12	14.5	14.5	10.0	10.0	5.0	5.0	1.0	1.0	4.0	4.0	5.0	5.0
13	14.5	14.5	10.0	10.0	5.0	5.0	1.0	1.0	4.0	4.0	5.0	5.0
14	14.5	14.5	10.0	10.0	5.0	5.0	2.0	1.0	4.0	4.0	5.0	5.0
15	14.5	14.5	10.0	9.5	5.0	5.0	4.5	2.0	4.0	4.0	5.5	5.0
16	14.5	14.0	9.5	9.5	5.0	5.0	4.5	3.0	4.0	4.0	6.0	5.5
17	14.0	14.0	9.5	9.5	5.0	5.0	3.0	2.5	4.0	4.0	6.5	6.0
18	14.0	14.0	9.5	9.5	5.0	5.0	4.0	2.5	4.5	4.0	6.5	6.5
19	14.0	13.5	9.5	9.5	5.0	5.0	4.5	3.0	4.5	4.5	7.0	6.5
20	13.5	13.5	9.5	9.0	5.0	5.0	4.0	3.0	4.5	4.5	7.0	7.0
21	13.5	13.5	9.0	9.0	5.0	5.0	3.5	3.0	4.5	4.5	8.0	7.0
22	13.5	13.5	9.0	8.5	5.0	5.0	3.5	3.0	4.5	4.5	8.5	8.0
23	13.5	13.0	8.5	8.0	5.0	5.0	4.0	3.0	4.5	4.5	8.5	8.5
24	13.0	13.0	8.0	8.0	5.0	5.0	4.0	3.5	4.5	4.5	8.5	8.5
25	13.0	13.0	8.0	8.0	5.0	4.5	4.0	3.5	4.5	4.5	8.5	8.5
26	13.0	13.0	8.0	8.0	4.5	4.5	4.0	3.5	4.5	4.5	9.0	8.5
27	13.0	13.0	8.0	7.5	4.5	4.5	4.0	3.5	4.5	4.5	9.0	9.0
28	13.0	13.0	7.5	7.5	4.5	4.0	4.0	3.5	4.5	4.5	9.0	9.0
29	13.0	12.5	7.5	7.0	4.5	4.5	3.5	3.5	---	---	9.5	9.0
30	12.5	12.5	7.0	7.0	4.5	4.5	3.5	3.5	---	---	9.5	9.5
31	12.5	12.0	---	---	4.5	4.0	3.5	3.5	---	---	9.5	9.0
MONTH	17.0	12.0	12.0	7.0	7.0	4.0	4.5	1.0	4.5	3.5	9.5	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	7.5	12.5	11.0	15.0	14.0	20.5	19.0	21.5	20.5	20.0	20.0
2	9.0	8.5	12.0	11.0	16.0	14.5	20.0	18.5	21.5	20.5	20.0	20.0
3	8.5	8.5	12.0	11.0	18.5	15.0	19.5	19.0	21.0	20.5	20.0	20.0
4	8.5	8.5	12.0	11.5	18.5	15.0	20.0	19.0	21.5	20.5	---	---
5	8.5	8.0	13.0	12.0	16.5	15.0	20.0	19.0	21.5	20.5	---	---
6	8.0	8.0	13.0	12.5	17.0	16.0	20.0	19.0	20.5	20.5	19.5	19.0
7	8.5	8.0	14.0	13.0	17.0	16.0	19.5	18.0	21.5	20.5	19.5	19.0
8	8.5	8.5	14.0	13.0	17.5	16.0	18.0	16.0	21.0	20.0	19.0	19.0
9	8.5	8.0	14.0	13.0	18.5	16.5	18.0	16.0	20.5	20.5	19.0	19.0
10	8.5	8.5	14.0	13.0	19.5	17.5	18.0	17.5	21.0	20.0	19.0	19.0
11	8.5	8.5	14.0	13.5	19.5	18.0	18.0	17.5	20.5	20.0	19.5	19.0
12	8.5	8.5	14.0	14.0	20.0	18.5	18.0	18.0	21.0	20.0	19.0	18.5
13	9.0	8.5	14.0	13.5	20.0	17.0	18.0	18.0	20.5	20.0	18.5	18.0
14	9.0	9.0	14.0	13.5	18.5	16.0	18.5	18.0	20.5	19.5	18.0	18.0
15	9.5	9.0	13.5	13.0	17.0	16.0	19.5	18.5	20.0	19.5	18.0	18.0
16	9.5	9.5	13.5	13.0	18.0	17.0	20.0	18.5	20.0	19.5	18.0	18.0
17	9.5	9.5	13.0	13.0	18.5	17.0	19.5	19.0	20.0	20.0	18.0	18.0
18	9.5	9.5	13.0	12.5	19.0	17.5	19.5	19.0	20.5	20.0	18.0	18.0
19	10.0	9.5	13.0	12.5	19.0	16.0	19.5	19.0	20.5	20.0	18.0	17.5
20	10.5	10.0	13.0	12.5	18.0	16.0	19.5	19.5	20.0	19.5	17.5	17.5
21	10.5	10.5	13.0	13.0	18.0	17.0	20.0	19.5	20.0	19.5	17.5	17.0
22	11.0	10.5	13.0	12.5	19.0	18.0	20.5	19.5	20.0	19.5	17.5	17.0
23	11.0	10.5	13.5	13.0	19.0	18.0	20.5	19.5	20.0	19.5	17.5	17.0
24	10.5	10.0	13.5	13.0	19.0	17.5	20.5	19.5	20.0	20.0	17.5	17.0
25	10.0	10.0	14.0	13.0	19.0	17.0	20.5	20.0	20.0	20.0	17.5	17.0
26	10.0	9.5	15.0	13.5	19.0	17.5	20.5	19.5	20.0	20.0	17.5	17.0
27	10.5	10.0	15.0	14.0	18.5	18.0	20.0	19.5	20.0	20.0	17.5	17.0
28	11.0	10.0	15.0	14.0	19.0	18.0	20.0	19.5	20.0	20.0	17.0	16.5
29	11.0	10.5	15.0	14.0	20.0	18.5	20.5	20.0	20.0	20.0	16.5	16.0
30	12.0	11.0	15.0	13.5	20.5	19.0	20.5	20.0	20.0	20.0	16.5	16.0
31	---	---	15.0	13.5	---	---	20.5	20.0	20.0	20.0	---	---
MONTH	12.0	7.5	15.0	11.0	20.5	14.0	20.5	16.0	21.5	19.5	20.0	16.0

11517500 SHASTA RIVER NEAR YREKA, CALIF.

LOCATION.--Lat 41°49'23", long 122°35'40", in SE¼NE¼ sec.24, T.46 N., R.7 W., Siskiyou County, at gaging station on right bank, 0.5 mi (0.8 km) upstream from mouth, and 7 mi (11.3 km) north of Yreka.

DRAINAGE AREA.--793 mi^2 (2,054 km^2).

PERIOD OF RECORD.--Chemical analyses: December 1958 to September 1971, water years 1972 to current year (partial-record station).
Water temperatures: June 1965 to current year.
Sediment records: Water years 1955-56, 1958-62 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 29.5°C Aug. 3; minimum, 1.0°C Jan. 7, 8.
Period of record:
Water temperatures: Maximum, 31.5°C July 15, 16, 1972; minimum, freezing point Jan. 30, 31, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Temperature recorder malfunction Oct. 13-30. Clock stopped Feb. 13 to Mar 7; range in temperature, 3.5°C to 8.5°C.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV., 1973												
15...	0930	378	--	--	--	--	--	--	--	--	--	--
JAN., 1974												
14...	1305	690	--	--	23	22	21	2.5	197	0	162	12
MAR.												
15...	0905	564	--	--	--	--	--	--	--	--	--	--
MAY												
07...	1120	276	260	10	--	--	21	--	238	0	195	--
JULY												
16...	1230	77	--	--	--	--	--	--	--	--	--	--
SEP.												
13...	0820	81	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
NOV., 1973											
15...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1974											
14...	11	1.1	--	--	--	207	.28	386	148	0	23
MAR.											
15...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	12	.02	.30	.12	.11	--	--	--	176	0	--
JULY											
16...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
13...	--	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV., 1973											
15...	--	507	8.1	9.0	5	12.9	--	--	--	--	--
JAN., 1974											
14...	.8	354	8.2	7.0	300	11.4	300	--	--	--	--
MAR.											
15...	--	445	8.1	9.0	8	11.5	--	--	--	--	--
MAY											
07...	.7	410	8.2	18.5	3	9.8	300	0	10	0	20
JULY											
16...	--	556	8.2	22.0	1	10.8	--	--	--	--	--
SEP.											
13...	--	581	8.1	14.5	2	9.4	--	--	--	--	--

11517500 SHASTA RIVER NEAR YREKA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	14.0	11.5	9.0	7.0	6.0	5.5	3.5	7.0	6.0	---	---
2	16.5	13.0	10.0	8.5	6.0	5.5	3.5	2.5	7.0	5.5	---	---
3	16.0	12.0	9.0	8.0	6.5	5.5	3.0	2.5	7.0	5.0	---	---
4	15.5	11.5	9.0	8.0	6.5	5.5	3.0	2.0	7.5	6.0	---	---
5	15.0	11.5	8.0	7.5	7.0	6.0	3.0	2.0	6.5	5.0	---	---
6	13.5	12.5	8.5	7.5	8.0	7.0	2.5	2.0	6.0	4.0	---	---
7	15.0	11.5	10.0	8.0	8.5	7.5	2.0	1.0	6.5	4.0	---	---
8	13.5	11.0	11.5	10.0	7.5	7.0	2.0	1.0	7.5	5.0	6.0	3.0
9	14.5	11.5	12.5	11.0	7.5	6.5	2.5	1.5	7.5	5.5	6.5	3.5
10	14.5	10.5	12.0	11.0	6.5	5.5	3.0	1.5	7.5	5.5	7.5	5.0
11	14.5	11.5	12.0	11.5	6.5	6.0	3.5	2.0	8.0	5.5	7.5	6.5
12	15.0	11.5	11.5	10.0	6.5	6.0	5.5	3.5	7.0	5.0	8.5	6.0
13	---	---	10.0	8.5	6.0	5.0	6.5	4.5	---	---	8.0	6.0
14	---	---	9.0	7.5	7.0	5.5	6.5	6.0	---	---	10.0	7.0
15	---	---	9.0	8.5	7.5	6.5	7.0	6.0	---	---	11.5	9.0
16	---	---	10.0	9.0	7.5	6.5	7.0	6.0	---	---	11.5	10.0
17	---	---	9.0	8.5	7.5	7.0	6.5	5.5	---	---	12.0	9.5
18	---	---	8.5	7.0	7.0	6.5	8.0	6.0	---	---	12.0	9.0
19	---	---	7.5	6.5	6.5	5.5	7.5	6.5	---	---	12.0	8.5
20	---	---	7.5	6.5	6.5	6.5	6.5	5.5	---	---	11.5	8.0
21	---	---	8.0	7.0	6.5	6.0	5.5	4.0	---	---	12.0	8.5
22	---	---	8.0	6.5	6.5	5.5	5.5	4.0	---	---	12.0	8.0
23	---	---	8.0	7.0	7.0	6.0	6.5	5.0	---	---	12.5	8.0
24	---	---	7.5	7.0	7.5	6.5	6.5	4.5	---	---	13.0	8.5
25	---	---	8.5	7.0	7.5	7.0	7.0	5.0	---	---	12.0	10.0
26	---	---	8.0	7.0	7.5	7.0	6.0	5.5	---	---	11.0	9.0
27	---	---	9.0	7.5	8.0	7.0	6.5	6.0	---	---	10.0	8.0
28	---	---	8.5	7.5	8.0	7.0	6.0	5.0	---	---	9.0	6.5
29	---	---	8.5	8.0	8.0	7.5	5.5	4.5	---	---	8.5	7.5
30	---	---	8.0	7.0	7.5	6.0	5.5	4.0	---	---	9.0	7.5
31	12.0	9.0	---	---	6.0	5.5	7.0	6.0	---	---	7.5	6.5
MONTH	---	---	12.5	6.5	8.5	5.0	8.0	1.0	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	6.5	18.0	14.0	23.5	16.5	25.5	19.5	29.0	22.0	26.0	20.5
2	8.5	7.0	18.0	13.0	24.0	17.5	25.0	17.0	29.0	22.0	25.5	19.5
3	10.5	7.5	18.0	12.5	23.5	18.0	26.5	17.5	29.5	22.0	25.5	19.0
4	12.0	8.5	18.5	13.5	21.0	18.0	26.5	18.5	29.0	22.5	25.5	19.0
5	11.0	9.0	20.0	14.5	20.0	17.0	25.5	19.5	26.5	23.0	25.5	18.5
6	10.5	7.5	20.0	16.0	22.0	16.0	25.5	18.5	27.0	21.0	25.0	21.0
7	11.5	8.0	21.0	16.0	21.0	15.5	23.0	517.5	25.5	20.0	25.0	22.0
8	11.0	9.5	21.5	16.5	22.5	15.0	19.5	16.5	25.5	18.0	23.5	17.5
9	9.5	7.5	19.0	15.0	24.0	16.5	22.0	15.0	25.0	22.0	24.0	18.5
10	11.5	8.0	19.0	14.0	25.0	18.0	19.0	16.5	26.0	21.0	23.0	18.5
11	12.5	10.5	19.5	14.5	25.0	19.0	21.5	18.0	26.0	22.0	21.5	17.0
12	12.5	9.5	18.0	15.0	25.5	19.5	23.5	19.0	25.5	18.5	21.0	16.0
13	13.5	9.5	18.0	13.0	24.5	19.5	24.5	19.0	24.5	17.5	21.5	15.5
14	13.5	10.0	17.5	13.0	25.0	19.0	25.0	19.0	25.0	17.5	21.5	15.0
15	14.5	11.0	16.5	12.5	24.0	18.0	24.0	20.5	25.5	17.5	21.5	15.5
16	15.0	10.5	14.0	11.5	23.5	17.5	25.0	20.5	25.0	18.0	21.5	15.5
17	14.0	11.0	14.0	11.0	25.5	18.0	25.5	20.5	25.5	18.0	21.5	15.5
18	13.0	11.0	14.0	10.5	26.0	19.5	26.0	21.5	21.5	17.0	22.0	16.0
19	12.5	9.0	16.0	10.5	22.0	18.5	25.5	21.5	23.0	17.0	22.5	17.0
20	15.0	10.0	17.0	12.0	23.0	16.5	25.5	22.0	24.0	16.0	23.0	17.0
21	16.0	11.0	17.5	13.5	24.0	17.5	26.5	21.5	24.0	16.5	22.5	17.0
22	15.5	12.5	20.5	14.0	25.0	18.5	26.0	21.5	25.0	18.0	22.5	17.5
23	14.0	11.5	20.5	14.5	25.0	18.5	26.5	21.5	26.0	19.5	22.0	17.0
24	12.5	10.5	22.0	15.0	25.0	19.0	27.0	20.5	26.0	18.5	22.0	17.0
25	12.5	9.5	23.5	16.5	23.0	17.5	28.0	21.0	27.0	19.5	21.5	16.5
26	13.0	9.5	24.0	17.0	23.5	16.5	26.5	22.5	27.0	20.0	20.5	16.0
27	14.5	10.0	23.5	18.0	24.0	16.5	25.0	21.0	27.0	20.0	19.0	14.5
28	16.5	11.0	21.0	16.5	25.5	17.5	27.0	21.0	27.0	20.5	18.5	13.5
29	18.0	12.5	21.0	15.0	26.5	19.5	27.5	22.0	27.0	21.0	19.0	14.0
30	18.5	14.0	21.5	14.5	27.0	21.0	28.0	23.0	27.0	21.0	19.0	14.0
31	---	---	22.5	15.0	---	---	28.5	23.0	27.0	21.5	---	---
MONTH	18.5	6.5	24.0	10.5	27.0	15.0	28.5	15.0	29.5	16.0	26.0	13.5

11520500 KLAMATH RIVER NEAR SEIAD VALLEY, CALIF.

LOCATION.--Lat 41°51'14", long 123°13'52", in SW¼SW¼ sec.3, T.46 N., R.12 W., Siskiyou County, Klamath National Forest, temperature recorder at gaging station 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).
PERIOD OF RECORD.--Chemical analyses: December 1958 to September 1966.
Water temperatures: October 1963 to current year.
Sediment records: Water years 1955-56 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 26.5°C Aug. 3; minimum, 1.0°C Jan. 10, 11.
Period of record:
Water temperatures: Maximum, 29.5°C July 26, 1970; minimum (1963-64, 1966 to current year), 0.5°C on several days in 1967, 1968, and 1971-73.

TEMPERATURE (DEG. C) OF WATER , WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	15.0	12.0	10.5	6.5	6.0	5.0	3.5	5.5	5.0	5.0	4.5
2	16.0	14.0	10.0	10.0	6.0	5.5	3.5	3.0	5.0	4.5	5.0	4.5
3	16.0	13.5	10.0	8.5	6.0	5.5	3.5	3.5	4.5	4.0	5.5	5.0
4	15.5	13.0	9.0	8.0	6.0	5.5	3.5	3.0	5.0	4.0	6.0	5.0
5	15.0	13.0	8.0	7.0	6.5	5.5	3.0	2.5	4.5	3.5	6.5	5.5
6	15.0	14.0	8.0	7.5	7.0	6.5	2.5	2.0	4.0	3.5	6.0	5.0
7	15.5	13.5	9.0	8.0	7.5	7.0	2.0	1.5	4.5	3.5	5.5	4.5
8	14.0	13.5	9.5	9.0	7.0	6.0	2.0	1.5	5.0	4.0	5.0	3.5
9	15.0	13.5	10.0	9.5	6.0	5.5	2.0	1.5	5.0	4.5	5.5	4.5
10	15.0	13.0	10.0	9.5	6.0	5.5	1.5	1.0	5.0	4.5	6.0	5.0
11	15.0	13.0	9.5	9.5	5.5	5.0	2.0	1.0	5.0	4.5	6.0	5.5
12	15.0	13.5	9.5	9.0	5.5	5.0	3.0	2.0	5.0	4.5	6.0	5.5
13	15.0	13.5	9.0	7.0	5.5	5.0	3.5	3.0	5.0	4.0	6.0	5.5
14	15.0	13.5	8.0	7.0	6.0	5.5	5.5	3.5	5.5	4.5	7.0	6.0
15	15.0	13.5	8.5	8.0	6.0	5.5	6.0	5.5	5.5	5.0	8.0	6.5
16	15.0	13.0	8.5	8.0	6.0	5.5	6.0	6.0	5.5	4.5	7.5	7.0
17	15.0	13.0	8.0	7.0	6.0	6.0	6.0	5.5	5.0	4.5	8.0	6.5
18	15.0	13.0	7.0	6.5	6.0	5.5	7.0	6.0	4.5	3.5	7.5	6.5
19	14.0	13.0	6.5	6.0	6.0	5.0	6.5	6.0	5.5	4.0	8.0	6.0
20	15.0	13.5	6.5	5.5	6.5	6.0	6.0	5.5	5.0	4.5	8.0	6.5
21	15.0	14.0	7.0	6.5	6.5	6.0	5.5	5.0	5.0	4.0	9.0	7.0
22	14.0	12.5	7.0	7.0	6.5	6.0	5.5	5.0	5.0	4.0	9.0	7.5
23	12.5	11.5	7.0	7.0	6.5	6.0	5.5	5.0	5.0	4.0	9.5	8.0
24	11.5	11.0	7.0	6.5	7.0	6.5	5.5	5.0	5.5	4.5	10.0	8.5
25	12.0	11.0	7.0	6.5	7.0	6.5	5.5	5.5	6.0	5.5	10.0	9.5
26	11.5	10.0	6.5	6.5	7.0	6.5	5.5	5.0	5.5	5.0	10.0	8.5
27	12.0	10.0	7.0	6.5	7.0	6.5	5.5	5.0	5.0	4.5	10.0	8.5
28	12.0	11.0	7.0	7.0	7.0	6.5	5.0	4.0	5.0	4.5	9.5	8.0
29	11.0	10.0	7.0	7.0	6.5	6.0	4.0	4.0	---	---	9.5	8.5
30	11.0	9.5	7.0	6.5	6.5	5.0	4.5	4.0	---	---	8.5	8.0
31	12.0	10.5	---	---	5.5	5.0	5.0	4.5	---	---	8.5	7.5
MONTH	17.5	9.5	12.0	5.5	7.5	5.0	7.0	1.0	6.0	3.5	10.0	3.5

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

11522500 SALMON RIVER AT SOMES BAR, CALIF.

LOCATION.--Lat 41°22'40", long 123°28'35", in NE¼ sec.3, T.11 N., R.6 E., Siskiyou County, Klamath National Forest, temperature recorder at gaging station on left bank, at Somes Bar, 1.0 mi (1.6 km) upstream from mouth.
DRAINAGE AREA.--751 mi² (1,945 km²).
PERIOD OF RECORD.--Chemical analyses: November 1958 to September 1964.
Water temperatures: October 1965 to current year.
Sediment records: Water years 1955-56 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Minimum, 2.0°C Jan. 10.
Period of record:
Water temperatures: Maximum (1965-66, 1967-73), 32.0°C Sept. 4, 5, 1966; minimum, freezing point on several days in 1967 and 1972.
REMARKS.--Recorder stopped June 19 to Aug. 2; recorder malfunction Aug. 3 to Sept. 30.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	15.5	10.5	10.0	8.5	7.5	6.0	4.5	6.5	6.0	6.5	6.0
2	16.5	14.0	10.0	8.5	8.0	7.5	4.5	3.5	6.5	5.5	6.5	5.5
3	15.5	13.5	9.0	8.5	8.0	7.0	4.5	4.0	5.5	5.0	6.5	5.5
4	16.0	13.0	9.0	8.5	8.0	7.5	4.5	3.5	6.0	5.5	7.5	6.0
5	15.5	13.0	9.0	8.0	8.5	7.5	4.0	3.5	6.0	4.5	7.5	7.0
6	14.5	14.0	9.0	8.0	9.0	8.5	4.0	3.0	5.0	4.0	7.5	6.5
7	15.5	13.5	10.0	9.0	9.0	9.0	3.0	3.0	5.5	4.5	6.5	5.5
8	14.0	13.5	10.5	9.5	9.0	8.0	3.0	2.5	6.0	5.0	6.0	4.5
9	15.0	13.0	10.5	10.0	8.0	7.5	3.0	2.5	5.5	5.0	6.5	5.0
10	14.5	13.0	10.5	10.0	8.0	7.0	2.5	2.0	5.5	5.0	7.5	6.0
11	15.0	13.0	10.5	10.0	8.0	7.0	3.5	2.5	6.0	5.0	8.0	7.0
12	14.5	13.0	10.5	9.0	7.5	7.0	4.5	3.5	6.0	5.5	8.0	7.0
13	15.0	13.0	9.0	7.5	7.5	7.0	6.0	4.5	5.5	4.5	7.5	6.5
14	15.5	13.5	8.5	7.5	8.0	7.0	7.0	6.0	6.5	5.5	8.0	7.5
15	15.5	14.0	9.0	8.5	8.5	8.0	7.0	6.5	6.5	6.0	9.0	7.5
16	15.5	13.0	9.5	9.0	8.5	8.0	8.0	7.0	6.5	6.5	8.5	7.5
17	15.5	13.0	9.0	8.0	8.0	7.5	8.0	7.5	6.5	5.5	9.5	8.0
18	15.0	13.5	8.5	8.0	7.5	7.0	8.5	8.0	6.0	5.5	9.0	7.5
19	14.0	13.5	8.0	7.0	8.0	7.0	8.5	7.5	7.0	6.0	8.5	6.5
20	15.0	14.0	7.5	7.0	8.0	7.5	7.5	6.0	7.0	6.0	9.0	7.0
21	15.0	14.0	7.5	6.5	8.0	8.0	6.0	5.5	6.5	6.0	9.0	7.0
22	14.0	11.5	8.0	7.5	8.5	8.0	6.0	5.5	6.0	5.0	9.0	7.5
23	11.5	10.5	8.0	7.5	8.5	8.0	6.5	5.5	6.0	5.0	9.0	7.0
24	11.0	10.0	8.0	7.5	8.5	8.0	6.5	5.5	6.5	5.5	9.5	7.5
25	11.0	10.5	8.0	7.5	8.5	8.5	6.5	6.0	7.0	6.0	9.5	8.5
26	10.5	9.5	8.0	7.5	8.5	8.0	6.5	5.5	7.0	6.5	9.5	8.0
27	10.0	9.0	8.0	7.5	8.5	8.0	6.0	5.5	6.5	5.5	9.0	8.0
28	11.0	10.0	8.5	8.0	8.0	8.0	6.0	5.5	6.0	5.5	8.5	7.5
29	10.5	9.0	8.5	8.0	8.0	7.5	5.5	5.0	---	---	8.5	8.0
30	9.5	8.5	8.5	8.0	7.5	6.5	5.5	4.5	---	---	8.0	7.5
31	10.5	9.0	---	---	6.5	6.0	6.5	5.5	---	---	7.5	6.5
MONTH	17.5	8.5	10.5	6.5	9.0	6.0	8.5	2.0	7.0	4.0	9.5	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.0	11.0	9.5	13.5	10.5						
2	8.0	7.0	10.5	8.0	13.5	10.5						
3	9.0	7.0	11.0	8.5	13.5	10.5						
4	10.0	7.5	11.0	8.5	13.0	11.0						
5	9.5	8.5	12.0	9.0	12.5	11.0						
6	9.5	8.0	11.5	9.0	14.0	11.0						
7	9.5	7.0	11.5	9.0	12.5	10.5						
8	9.5	8.0	11.5	9.0	13.5	10.5						
9	8.0	7.0	10.5	8.0	14.5	11.5						
10	9.5	7.0	11.0	8.0	15.0	12.5						
11	9.5	8.5	11.5	9.0	15.0	12.5						
12	10.0	8.0	10.5	9.0	15.0	12.5						
13	9.5	7.5	10.0	8.0	15.5	12.5						
14	10.0	8.0	10.0	8.0	15.5	13.0						
15	10.5	8.5	9.5	8.5	14.5	12.5						
16	10.5	8.5	9.0	7.5	14.5	12.5						
17	10.5	8.5	7.5	6.5	15.5	13.0						
18	10.0	8.5	8.5	6.5	15.5	14.0						
19	10.0	8.0	10.0	7.5	---	---						
20	11.0	8.5	11.0	8.5	---	---						
21	11.0	9.0	11.5	9.5	---	---						
22	11.0	9.5	12.0	9.5	---	---						
23	10.5	8.5	12.0	10.0	---	---						
24	8.5	7.0	12.5	10.5	---	---						
25	8.5	7.0	13.5	11.0	---	---						
26	9.5	7.5	13.5	10.5	---	---						
27	10.5	8.0	13.0	10.0	---	---						
28	11.5	9.0	12.0	10.0	---	---						
29	12.0	9.5	12.0	9.5	---	---						
30	12.0	10.0	12.5	9.5	---	---						
31	---	---	13.0	10.0	---	---						
MONTH	12.0	7.0	13.5	6.5	---	---						

11523000 KLAMATH RIVER AT ORLEANS, CALIF.

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, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to current year.
Water temperatures: October 1965 to current year.
Sediment records: Water years 1955-59 (partial-record station), January 1967 to current year. Prior to October 1966, published as "at Somesbar."

EXTREMES.--Current year:
Water temperatures: Maximum, 26.0°C Aug. 3, 4; minimum, freezing point Jan. 9-11.
Sediment concentrations: Maximum daily, 4,690 mg/l Jan. 16; minimum daily, 4 mg/l on many days.
Sediment discharge: Maximum daily, 3,040,000 tons (2,760,000 tonnes) Jan. 16; minimum daily, 22 tons (20 tonnes) Oct. 1.
Period of record:
Water temperatures: Maximum (1965-69, 1971 to current year), 29.5°C July 27, 1973; minimum (1965-66, 1967 to current year), freezing point Dec. 22, 23, 1968, Jan. 9-11, 1974.
Sediment concentrations (1967 to current year): Maximum daily, 4,690 mg/l Jan. 16, 1974; minimum daily, 1 mg/l Aug. 25-27, 1972.
Sediment discharge (1967 to current year): Maximum daily, 3,040,000 tons (2,760,000 tonnes) Jan. 16, 1974; minimum daily, 4.7 tons (4.3 tonnes) Aug. 27, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Dec. 3 to Jan. 3, June 6 to July 11, probe inoperative; May 17 to June 5, recorder malfunction; Sept. 11-30, record stopped. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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...	1105	--	1610	230	7.9	16.5	1	12.0
NOV.								
13...	1205	--	35100	100	7.3	8.0	100	13.1
DEC.								
10...	1225	--	19200	128	7.4	7.0	25	14.5
JAN.								
14...	1245	50000	--	112	8.2	7.0	90	14.2
FEB.								
04...	1145	20000	--	147	7.7	5.5	40	14.2
MAR.								
04...	1255	--	21400	160	7.5	7.5	40	14.5
APR.								
01...	1145	--	75100	111	7.7	8.0	220	13.3
MAY								
13...	1120	--	16100	110	7.5	11.5	20	12.1
JUNE								
10...	1055	--	11200	98	7.8	15.0	4	10.0
JULY								
08...	1210	--	4060	144	7.7	17.0	2	9.5
AUG.								
05...	1140	--	2480	178	7.9	23.5	1	--
SEP.								
03...	1050	--	2190	205	7.9	23.0	1	9.3

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV.										
13...	1205	35100	--	--	11	4.5	3.4	1.2	54	0
APR.										
01...	1145	75100	30000	640	--	--	4.2	--	63	0

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)
NOV.										
13...	44	6.6	.5	.14	--	--	--	82	.11	46
APR.										
01...	52	--	1.2	.05	.50	.67	.03	--	--	50

DATE	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.										
13...	2	13	.2	8.0	4.3	0	--	--	--	--
APR.										
01...	0	--	.3	8.0	2.0	0	10	80	0	50

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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	19.0	--	15.5	12.0	--	10.0	8.0	--	7.5	--	--	--	7.5	--	7.0	6.5	--	6.5
2	18.0	--	14.5	10.5	--	9.0	7.5	--	7.0	--	--	--	7.5	--	6.5	7.0	--	6.5
3	17.5	--	13.0	9.5	--	8.5	--	7.5	--	--	--	--	7.0	--	6.5	6.5	--	6.5
4	17.0	--	13.0	8.5	--	8.0	--	7.5	--	4.5	--	3.5	7.0	--	6.5	7.0	--	6.5
5	17.0	--	13.5	8.5	--	8.0	--	7.5	--	4.0	--	3.5	6.5	--	5.5	7.5	--	7.0
6	15.0	--	14.0	9.0	--	8.5	--	8.0	--	4.0	--	3.0	5.5	--	5.0	8.0	--	7.0
7	16.0	--	13.5	9.5	--	8.5	--	8.5	--	3.0	--	2.5	5.5	--	5.0	7.0	--	6.5
8	14.0	--	13.5	10.5	--	9.5	--	--	--	2.5	--	1.0	6.0	--	5.5	6.5	--	5.5
9	15.0	--	12.5	10.5	--	10.5	--	6.0	--	1.0	--	0.0	6.5	--	6.0	6.0	--	5.5
10	15.5	--	13.0	10.5	--	10.5	--	8.0	--	1.0	--	0.0	6.5	--	6.0	6.5	--	6.0
11	16.0	--	13.0	11.0	--	10.5	--	7.0	--	2.0	--	0.0	6.5	--	6.0	7.5	--	6.5
12	16.0	--	13.5	10.5	--	9.5	--	7.0	--	4.0	--	2.0	6.5	--	6.5	7.5	--	7.0
13	16.0	--	13.5	9.5	--	7.0	--	6.5	--	5.5	--	4.0	6.5	--	5.5	7.5	--	7.0
14	17.0	--	14.5	8.0	--	7.0	--	7.0	--	6.5	--	5.5	9.0	--	6.0	7.5	--	7.0
15	16.5	--	14.5	9.0	--	8.0	--	--	--	8.5	--	6.5	8.0	--	6.5	8.5	--	7.5
16	16.5	--	14.5	9.0	--	9.0	--	7.5	--	8.5	--	6.5	7.5	--	7.0	9.0	--	8.5
17	17.0	--	14.5	9.0	--	8.0	--	7.5	--	7.5	--	6.5	7.0	--	7.0	9.0	--	8.5
18	17.0	--	14.5	8.0	--	7.5	--	--	--	8.0	--	6.5	7.0	--	6.5	8.5	--	8.0
19	15.0	--	15.0	7.5	--	6.5	--	--	--	8.0	--	7.0	6.5	--	6.5	8.5	--	7.5
20	16.0	--	15.0	7.0	--	6.5	--	8.0	--	7.0	--	6.0	7.0	--	6.5	8.5	--	8.0
21	15.5	--	14.0	7.5	--	6.5	--	8.0	--	6.0	--	5.5	7.0	--	6.5	8.5	--	8.0
22	14.0	--	11.5	7.5	--	7.0	--	--	--	5.5	--	5.0	6.5	--	6.0	9.0	--	8.5
23	11.5	--	11.0	8.0	--	7.5	--	8.0	--	7.0	--	6.0	6.0	--	6.0	9.0	--	8.0
24	11.0	--	10.5	8.0	--	7.5	--	7.5	--	7.0	--	6.5	6.5	--	6.0	9.0	--	8.5
25	11.5	--	10.0	8.0	--	7.5	--	8.5	--	7.0	--	6.5	7.0	--	6.5	10.0	--	9.0
26	11.5	--	9.5	8.0	--	7.5	--	8.0	--	7.0	--	6.5	7.5	--	7.0	9.5	--	9.0
27	11.5	--	9.5	8.0	--	7.5	--	8.0	--	7.0	--	6.0	7.0	--	6.5	9.5	--	8.5
28	12.5	--	10.5	8.5	--	8.0	--	7.0	--	7.0	--	6.5	7.0	--	6.5	8.5	--	8.0
29	12.0	--	9.5	8.5	--	8.5	--	8.0	--	6.5	--	6.0	--	--	--	9.0	--	8.0
30	11.5	--	9.0	8.5	--	8.0	--	7.0	--	6.5	--	6.0	--	--	--	8.0	--	8.0
31	12.5	--	10.0	--	--	--	--	7.0	--	7.5	--	6.5	--	--	--	8.0	--	7.5
MONTH	19.0	--	9.0	12.0	--	6.5	--	--	--	8.5	--	0.0	9.0	--	5.0	10.0	--	5.5

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	APR MAX	APR MIN	MAY MAX	MAY MIN	JUN MAX	JUN MIN	JUL MAX	JUL MIN	AUG MAX	AUG MIN	SEP MAX	SEP MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	8.0	7.5	13.0	12.0	--	--	--	--	25.0	23.0	20.5	19.0
2	8.5	8.0	12.0	11.0	--	--	19.5	--	25.5	24.0	20.5	19.0
3	8.0	8.0	12.5	11.5	17.0	--	--	--	26.0	24.0	20.5	18.5
4	9.0	8.5	13.0	12.0	13.5	--	--	--	26.0	25.0	20.5	19.5
5	9.5	9.0	13.5	12.5	15.5	--	--	--	25.0	23.0	20.5	19.5
6	9.0	8.5	13.5	12.5	--	--	19.0	--	24.0	22.5	20.0	19.0
7	9.0	8.5	13.0	12.5	--	--	--	--	24.0	22.0	19.5	19.0
8	9.0	9.0	13.0	11.5	--	--	17.0	--	23.0	21.0	19.5	18.5
9	9.0	8.5	11.5	10.0	17.5	--	--	--	22.5	20.5	19.0	18.0
10	9.0	8.0	10.0	10.0	--	--	--	--	22.5	20.5	19.5	18.0
11	10.0	9.0	10.0	10.0	--	--	17.0	--	22.5	20.5	20.0	--
12	9.5	9.0	10.0	10.0	17.0	--	19.5	16.5	22.0	20.5	--	--
13	10.0	9.0	10.0	10.0	11.5	--	20.5	17.5	21.5	19.5	--	--
14	10.5	9.5	10.0	9.5	16.0	--	21.0	18.5	20.5	19.5	--	--
15	10.5	10.0	9.5	9.5	--	--	20.5	18.5	21.0	19.0	--	--
16	11.0	10.0	9.5	8.0	--	--	20.5	18.5	20.5	19.5	23.0	--
17	11.0	10.5	--	9.5	--	--	21.0	18.5	20.5	19.0	--	--
18	10.5	10.0	--	--	17.5	--	22.0	18.0	19.5	18.5	--	--
19	10.0	9.5	--	12.5	--	--	22.0	18.0	20.0	18.0	--	--
20	11.0	10.0	--	14.5	17.0	--	23.0	20.5	20.0	18.0	--	--
21	11.5	11.0	--	12.0	--	--	23.0	21.0	20.5	18.5	--	--
22	11.5	11.0	--	14.0	--	--	23.0	20.5	21.0	19.0	--	--
23	11.0	10.5	--	--	--	--	23.5	21.0	21.0	19.0	--	--
24	10.5	10.0	--	14.0	--	--	24.0	21.5	21.0	19.0	--	--
25	10.0	9.0	--	--	--	--	24.0	22.0	20.0	19.0	--	--
26	10.5	9.5	--	14.0	--	--	24.0	22.5	21.0	19.0	--	--
27	11.0	10.0	--	--	18.0	--	24.5	23.0	21.0	19.5	--	--
28	12.0	11.0	--	14.0	--	--	24.5	23.0	20.5	19.5	--	--
29	13.0	11.5	--	15.0	--	--	24.5	22.5	20.0	19.0	--	--
30	13.0	12.5	--	--	--	--	24.5	22.5	20.5	19.0	--	--
31	--	--	--	17.0	--	--	25.0	23.0	20.5	19.0	--	--
MONTH	13.0	7.5	--	--	--	--	--	--	26.0	18.0	--	--

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DAY	OCTOBER MEAN DISCHARGE (CFS)	OCTOBER MEAN CONCEN-TRATION (MG/L)	OCTOBER SEDIMENT DISCHARGE (TONS/DAY)	NOVEMBER MEAN DISCHARGE (CFS)	NOVEMBER MEAN CONCEN-TRATION (MG/L)	NOVEMBER SEDIMENT DISCHARGE (TONS/DAY)	DECEMBER MEAN DISCHARGE (CFS)	DECEMBER MEAN CONCEN-TRATION (MG/L)	DECEMBER SEDIMENT DISCHARGE (TONS/DAY)
1	1620	5	22	3000	5	40	43400	487	57100
2	1850	5	25	2800	5	38	30000	282	22800
3	2080	5	28	2600	4	28	23100	183	11400
4	2090	5	28	2800	4	30	20200	158	8620
5	2070	5	28	11500	291	11100	17800	140	6730
6	2130	5	29	28100	388	30300	16800	103	4670
7	2320	5	31	23300	268	16900	24100	234	16200
8	2330	4	25	37700	371	39800	26000	188	13200
9	2330	4	25	33000	301	26800	22000	137	8140
10	2340	4	25	45000	430	59200	19300	115	5990
11	2290	4	25	53900	665	97000	19000	161	8260
12	2250	4	24	41000	380	42100	19000	112	5750
13	2220	4	24	34700	330	30900	23800	175	10400
14	2220	4	24	27400	302	22300	24500	172	11400
15	2220	5	30	25900	265	18500	22300	141	8490
16	2190	5	30	29800	309	24900	21600	146	8510
17	2160	5	29	25900	227	15900	35400	392	39500
18	2140	5	29	21300	188	10800	35200	257	24400
19	2130	5	29	17300	144	6730	27600	121	9020
20	2240	7	42	15700	108	4580	33300	276	28700
21	3010	314	3120	14900	105	4220	55500	464	70000
22	8100	469	10500	14800	105	4200	41200	259	28800
23	12500	528	17600	13900	99	3720	31500	177	15100
24	9930	239	6410	14000	86	3250	26600	128	9190
25	7150	82	1580	13700	74	2740	26900	89	6460
26	5290	27	386	13700	72	2660	24700	75	5000
27	4000	19	205	13700	59	2180	24600	71	4720
28	3900	11	116	16000	114	5130	27000	73	5320
29	3700	8	80	25100	303	21000	36000	190	19800
30	3200	6	52	39800	598	67600	34600	160	14900
31	3100	6	50	---	---	---	28200	128	9750
MONTH	107100	---	40651	662300	---	574646	861200	---	498320

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	24600	106	7040	24900	319	21400	28100	712	54000
2	22100	104	6210	23600	278	17700	28200	484	36900
3	20300	101	5540	21500	197	11400	24100	314	20400
4	18200	98	4820	20000	170	9180	21400	236	13600
5	17000	89	4090	18200	165	8110	20200	205	11200
6	15800	78	3330	17600	160	7600	19800	211	11300
7	14400	70	2720	16800	155	7030	19300	217	11300
8	13500	66	2410	15900	148	6350	18400	173	8590
9	12600	62	2110	14900	137	5510	17700	158	7550
10	11900	62	1990	14300	121	4670	17500	150	7090
11	11300	60	1830	14000	104	3930	17800	181	8700
12	12100	65	2120	13500	95	3460	19800	295	15800
13	17500	288	13600	12900	94	3270	20700	250	14000
14	50000	518	69900	12400	75	2510	22400	226	13900
15	115000	2190	680000	12100	73	2380	27200	311	22800
16	240000	4690	3040000	14000	176	6650	27500	281	20900
17	165000	3890	1730000	13500	80	2920	27800	276	20700
18	125000	2060	695000	15700	158	6700	27900	319	24000
19	93500	1230	311000	25900	412	28800	26600	309	22200
20	66000	930	166000	22100	342	20400	25800	274	19100
21	50000	853	115000	20000	304	16400	24900	265	17800
22	35500	800	76700	19600	276	14600	24400	281	18500
23	33300	719	64600	18400	247	12300	23300	239	15000
24	30800	536	44600	17500	228	10800	22900	192	11900
25	28500	490	37700	17200	209	9710	23400	203	12800
26	27000	488	35600	17500	200	9450	24100	235	15300
27	26000	427	30000	17200	158	7340	24100	185	12000
28	25200	340	23100	21700	456	26700	26700	280	20200
29	24000	294	19100	---	---	---	40200	1110	151000
30	22600	264	16100	---	---	---	100000	2050	571000
31	22800	306	18800	---	---	---	64900	1290	226000
MONTH	1391500	---	7231010	492900	---	287270	857100	---	1435530

	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	72900	1450	293000	18100	182	8920	13300	57	2050
2	72700	1200	236000	17900	129	6230	14200	58	2220
3	50100	1000	135000	17500	126	5950	14500	62	2430
4	40500	784	85700	17000	121	5550	14300	47	1810
5	35100	713	67600	17600	122	5800	14400	36	1400
6	33100	667	59600	19600	190	10100	14300	34	1310
7	30700	625	51800	21400	216	12500	13300	32	1150
8	29700	576	46200	22500	188	11400	11600	30	940
9	27900	525	39500	21900	202	11900	10800	28	816
10	26500	442	31600	19700	169	8990	11000	26	772
11	25500	451	31100	18300	140	6920	11800	24	765
12	24400	450	29600	17300	119	5560	12100	52	1700
13	23600	419	26700	16000	104	4490	11900	59	1900
14	22200	356	21300	14900	88	3540	11600	45	1410
15	22000	299	17800	14200	83	3180	11000	40	1190
16	22200	348	20900	13300	83	2980	10100	38	1040
17	22100	359	21400	12400	79	2640	9820	36	955
18	21500	291	16900	11600	77	2410	9820	44	1170
19	20100	235	12800	11500	73	2270	9450	34	868
20	19100	217	11200	11100	80	2400	8580	34	788
21	18100	209	10200	11000	83	2470	7910	33	705
22	18100	195	9530	11900	128	4110	7520	33	670
23	17900	176	8510	12400	145	4850	7180	32	620
24	18100	210	10300	12400	86	2880	6920	32	598
25	16600	169	7570	13100	80	2830	6570	32	568
26	15300	143	5910	15400	117	4860	6070	32	524
27	14500	148	5790	17600	173	8220	5670	31	475
28	14400	145	5640	17700	173	8270	5430	29	425
29	14700	145	5760	16700	133	6000	5410	27	394
30	16200	197	8620	14600	95	3740	5510	25	372
31	---	---	---	13200	61	2170	---	---	---
MONTH	805800	---	1333530	489800	---	174130	302060	---	32035

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	5470	20	295	2500	10	68	2020	5	27
2	5160	17	237	2620	10	71	2110	5	28
3	4810	15	195	2600	9	63	2190	5	30
4	4580	15	185	2530	9	61	2190	4	24
5	4410	15	179	2490	9	61	2200	4	24
6	4290	20	232	2490	8	54	2190	4	24
7	4140	15	168	2490	8	54	2180	4	24
8	4140	20	224	2450	8	53	2170	4	23
9	4450	20	240	2410	7	46	2180	4	24
10	4040	20	218	2360	7	45	2190	4	24
11	3860	20	208	2330	6	38	2220	4	24
12	3730	20	201	2300	6	37	2230	4	24
13	3630	19	186	2280	4	25	2230	4	24
14	3560	17	163	2250	5	30	2240	4	24
15	3490	14	132	2240	5	30	2230	4	24
16	3390	14	128	2220	5	30	2220	4	24
17	3320	12	108	2190	5	30	2230	4	24
18	3260	12	106	2170	5	29	2210	4	24
19	3330	12	108	2170	5	29	2180	4	24
20	3300	12	107	2160	7	41	2180	4	24
21	3250	12	105	2160	5	29	2190	4	24
22	3090	13	108	2130	5	29	2180	4	24
23	2970	12	96	2100	5	28	2180	4	24
24	2880	12	93	2110	5	28	2200	4	24
25	2820	11	84	2100	5	28	2200	4	24
26	2760	11	82	2070	5	28	2170	4	23
27	2730	11	81	2050	5	28	2160	4	23
28	2750	11	82	2050	5	28	2150	4	23
29	2850	11	85	2030	5	27	2170	4	23
30	2640	11	78	2030	5	27	2210	4	24
31	2580	10	70	2030	5	27	---	---	---
MONTH	111680	---	4584	70110	---	1202	65600	---	728
YEAR	6217150		11613636						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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. FALL DIAM. % FINER THAN .062 MM
NOV.											
06...	1030	8.5	25500	503	34600	11	17	25	33	42	--
DEC.											
03...	1600	7.5	23200	148	9270	--	--	--	--	--	66
JAN.											
04...	1450	4.0	18200	99	4870	--	--	--	--	--	--
15...	1020	8.0	119000	2160	694000	10	19	31	46	62	75
15...	1535	8.5	158000	1770	755000	19	29	41	57	73	87
16...	0910	8.5	235000	4200	2660000	13	20	33	48	64	78
16...	1330	--	257000	4520	3140000	15	23	37	54	73	88
16...	1810	--	267000	6210	4480000	11	18	29	42	58	70
17...	1030	7.5	175000	3910	1850000	15	25	37	50	64	77
17...	1630	7.5	145000	3630	1420000	15	21	32	43	56	66
18...	0910	8.0	94300	2120	540000	13	21	32	45	60	74
19...	2000	7.5	74400	1080	217000	18	18	29	43	59	74
MAR.											
01...	1330	--	28200	735	56000	7	12	18	25	32	40
29...	1820	8.5	51300	1640	227000	10	14	19	26	35	46
30...	0905	8.0	115000	2140	664000	10	15	22	32	42	--
31...	1635	8.5	58100	1220	191000	--	--	--	--	--	58
APR.											
02...	1100	8.5	74300	1220	245000	15	22	30	40	51	--
03...	1250	8.0	49800	957	129000	8	15	22	31	41	--
MAY											
01...	1220	--	18500	192	9590	14	18	24	33	40	47

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.										
06...	49	--	62	--	81	--	95	--	100	--
DEC.										
03...	--	74	--	90	--	99	--	100	--	--
JAN.										
04...	52	--	54	--	60	--	71	--	84	92
15...	--	89	--	98	--	100	--	--	--	--
15...	--	95	--	100	--	--	--	--	--	--
16...	--	92	--	99	--	100	--	--	--	--
16...	--	94	--	98	--	100	--	--	--	--
16...	--	85	--	96	--	100	--	--	--	--
17...	--	90	--	98	--	100	--	--	--	--
17...	--	86	--	96	--	100	--	--	--	--
18...	--	89	--	98	--	99	--	100	--	--
19...	--	88	--	98	--	100	--	--	--	--
MAR.										
01...	--	51	--	68	--	95	--	100	--	--
29...	--	65	--	90	--	100	--	--	--	--
30...	54	--	70	--	89	--	98	--	100	--
31...	--	72	--	94	--	99	--	100	--	--
APR.										
02...	64	--	78	--	91	--	97	--	100	--
03...	49	--	60	--	76	--	89	--	97	100
MAY										
01...	--	55	--	70	--	95	--	100	--	--

11525500 TRINITY RIVER AT LEWISTON, CALIF.

LOCATION.--Lat 40°43'10", long 122°48'09", in SW¼NW¼ sec.17, T.33 N., R.8 W., Trinity County, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), December 1953 to September 1968, water years 1969 to current year (partial-record station).
Water temperatures: September 1951 to September 1955, October 1957 to September 1958, July 1959 to current year.
Sediment records: Water years 1955-61 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 12.5°C July 1; minimum, 5.0°C Apr. 1.
Period of record (See REMARKS below):
Water temperatures (1951-60): Maximum (1951-55, 1957-58, 1959-60), 26.0°C July 20, 21, 28, 29, 1960; minimum, 1.0°C on several days in 1952.
Water temperatures (1961 to current year): Maximum (1961-63, 1964 to current year), 19.5°C Oct. 1, 2, 1960, June 13, 15-17, 1961; minimum, 3.0°C June 22, 23, 1962.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Water temperatures affected by construction of Trinity Dam beginning in November 1960. Extremes are given above for two separate periods--1951-60, and 1961 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV., 1973												
13...	0845	251	--	--	--	--	--	--	--	--	--	--
JAN., 1974												
14...	0825	171	--	--	--	--	--	--	--	--	--	--
MAR.												
04...	0800	241	--	--	--	--	1.7	--	42	0	34	--
MAY												
13...	0715	1310	--	--	--	--	--	--	--	--	--	--
16...	1235	1610	460	10	3.6	6.3	1.6	.9	44	0	36	.6
JULY												
08...	0730	162	--	--	--	--	--	--	--	--	--	--
SEP.												
03...	0725	212	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
NOV., 1973											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1974											
14...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
04...	1.7	.07	--	--	.01	--	--	--	35	1	--
MAY											
13...	--	--	--	--	--	--	--	--	--	--	--
16...	.5	.04	.10	.01	.00	43	.06	187	35	0	9
JULY											
08...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
03...	--	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV., 1973											
13...	--	87	8.0	8.0	15	10.3	--	--	--	--	--
JAN., 1974											
14...	--	82	7.4	7.5	8	11.8	--	--	--	--	--
MAR.											
04...	.1	76	7.1	7.0	35	12.6	0	--	--	--	--
MAY											
13...	--	74	7.6	8.0	15	13.0	--	--	--	--	--
16...	.1	71	7.3	8.5	10	13.2	100	0	0	0	0
JULY											
08...	--	77	7.4	9.5	7	9.4	--	--	--	--	--
SEP.											
03...	--	76	8.1	8.5	4	11.6	--	--	--	--	--

11525500 TRINITY RIVER AT LEWISTON, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	5.0	9.0	7.5	8.5	7.0	12.5	10.0	11.0	9.5	10.0	8.0
2	6.5	5.5	9.0	7.5	9.0	7.0	12.0	10.0	11.5	9.5	9.5	8.0
3	7.0	6.0	9.0	7.5	9.0	7.5	11.5	9.5	12.0	10.0	9.5	8.0
4	7.5	6.5	9.0	7.0	9.0	7.5	11.5	9.5	12.0	10.0	9.5	7.5
5	7.5	7.0	9.0	7.0	8.0	7.0	11.5	9.5	11.0	10.5	9.5	8.0
6	7.5	6.5	8.5	7.0	9.0	7.5	11.5	9.5	12.0	10.0	9.5	8.0
7	8.0	6.0	8.5	7.0	9.0	8.0	10.5	9.5	12.0	10.0	9.5	8.0
8	8.0	7.0	8.5	7.0	9.5	7.5	10.0	9.5	11.5	9.5	10.0	8.0
9	7.5	6.0	8.5	7.5	9.5	7.5	10.5	9.5	11.5	9.5	10.0	8.0
10	7.5	6.0	8.5	7.0	9.0	7.5	11.0	9.0	11.5	9.5	10.0	8.0
11	7.5	6.0	8.5	7.0	9.5	8.0	11.5	9.5	11.5	9.5	10.0	8.0
12	7.5	6.0	8.5	7.5	9.5	8.0	11.5	9.5	11.5	9.5	10.0	8.0
13	8.0	5.5	8.5	7.5	9.5	8.5	11.5	9.5	11.5	9.5	10.0	8.0
14	8.0	6.0	8.5	7.5	10.5	8.5	11.5	9.5	11.5	9.5	10.0	8.0
15	7.5	6.0	8.5	7.5	11.0	9.5	11.5	9.5	11.5	9.5	9.5	8.0
16	7.5	5.5	8.5	7.5	10.5	10.0	11.5	9.5	12.0	9.5	9.5	8.0
17	7.5	6.0	8.5	8.0	10.0	9.0	12.0	10.0	11.5	9.5	10.0	8.0
18	7.5	6.5	8.0	7.0	10.5	9.0	12.0	10.0	11.0	9.0	10.0	8.0
19	7.5	6.0	8.5	7.0	10.5	10.0	12.0	10.0	11.0	9.0	10.0	8.0
20	7.5	6.0	8.5	7.5	10.5	8.5	12.0	10.0	11.0	8.5	10.0	8.0
21	8.0	6.0	8.5	7.5	11.0	9.0	12.0	10.0	10.5	8.5	10.0	8.0
22	8.0	6.5	8.5	7.0	11.0	9.5	12.0	10.0	10.5	8.5	9.5	8.5
23	7.5	7.0	8.5	7.0	11.5	9.5	12.0	10.0	11.0	8.5	9.5	8.0
24	8.0	7.5	8.5	6.5	12.0	9.5	11.5	10.0	11.0	9.0	9.5	8.0
25	8.0	7.5	8.5	6.5	12.0	9.5	11.5	10.0	10.5	9.0	9.5	7.5
26	8.0	7.0	8.5	6.5	11.5	9.5	12.0	10.0	11.0	9.0	9.5	8.0
27	8.5	6.5	9.0	7.0	12.0	9.5	10.5	9.0	10.5	9.0	9.5	8.0
28	8.5	6.5	9.0	7.5	12.0	9.5	10.5	9.0	10.0	8.5	9.5	8.0
29	8.5	6.0	9.0	7.0	11.5	9.5	11.0	8.5	9.5	8.5	9.0	8.0
30	8.5	6.5	9.0	7.0	11.5	10.0	11.0	9.0	10.0	8.5	9.5	8.0
31	---	---	8.5	7.0	---	---	11.5	9.5	10.5	8.5	---	---
MONTH	8.5	5.0	9.0	6.5	12.0	7.0	12.5	8.5	12.0	8.5	10.0	7.5

11527000 TRINITY RIVER NEAR BURNT RANCH, CALIF.

LOCATION.--Lat 40°47'20", long 123°26'20", in S½ sec.19, T.5 N., R.7 E., Trinity County, Trinity National Forest, temperature recorder at gaging station 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).
PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1966.
Water temperatures: October 1961 to September 1964, October 1966 to September 1967, October 1968 to current year.
Sediment records: Water year 1968 (partial-record station).
EXTREMES.--Current year:
Water temperatures: Maximum, 21.0°C July 26; minimum, 4.0°C Jan. 2, 4, 9-11.
Period of record:
Water temperatures (1962-64, 1966-67, 1968 to current year): Maximum, 27.0°C Aug. 17-19, 24, 1967; minimum (1962-63, 1966-67, 1968 to current year), freezing point Dec. 7-11, 1972.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	6.5	12.0	10.5	16.0	13.0	18.0	17.0	20.5	18.0	19.5	17.5
2	7.5	7.0	13.5	10.0	15.5	13.0	18.5	16.0	20.5	18.5	19.5	18.0
3	9.0	7.0	14.0	10.0	15.5	13.0	19.0	16.5	20.5	18.5	19.5	17.0
4	10.5	7.5	15.0	11.0	14.5	13.0	19.0	16.5	20.5	18.5	19.5	17.0
5	10.0	8.5	15.0	11.5	15.5	13.5	19.0	17.0	20.0	18.5	19.5	17.0
6	9.0	8.0	15.0	12.0	15.5	14.0	18.5	16.5	20.0	18.0	19.5	17.5
7	10.0	7.5	15.0	12.0	15.5	12.5	17.0	16.0	20.0	17.5	19.5	18.0
8	9.5	8.5	14.5	12.0	16.0	12.5	17.0	16.0	20.0	17.5	19.0	17.0
9	9.0	8.0	13.0	11.0	17.0	13.5	17.0	15.0	20.5	18.0	19.0	17.0
10	10.0	8.0	14.0	10.5	17.0	14.0	17.5	15.0	20.0	18.0	19.0	17.5
11	10.0	8.5	13.5	11.0	17.0	14.5	18.5	15.0	20.0	18.0	19.0	17.0
12	11.0	8.5	13.0	11.5	17.0	14.5	18.5	15.5	19.5	17.5	19.0	16.0
13	11.0	8.0	12.5	10.0	17.0	14.5	19.0	16.0	19.0	17.0	19.0	16.5
14	11.0	8.5	12.0	10.0	17.0	14.5	19.0	16.5	19.0	16.5	18.5	16.0
15	10.5	8.5	12.0	10.5	16.5	15.0	18.5	16.5	19.0	16.5	18.5	16.0
16	11.5	8.5	11.0	10.0	15.0	15.0	18.5	16.0	19.5	17.0	18.5	16.0
17	10.5	9.5	10.0	9.0	17.0	14.5	19.0	16.5	19.0	17.0	19.0	16.5
18	10.0	9.0	11.0	9.0	18.0	16.0	19.5	17.5	18.5	16.5	19.0	16.5
19	10.5	8.5	12.0	9.5	17.0	15.5	19.5	17.5	18.5	16.5	19.0	16.5
20	11.5	9.5	13.0	10.5	17.5	15.0	19.5	17.5	19.0	16.5	19.0	16.5
21	12.5	10.0	13.5	11.0	18.0	16.0	19.5	17.5	19.0	17.0	19.0	16.5
22	11.5	10.0	13.0	10.5	18.0	16.0	19.0	17.0	19.5	17.0	19.0	16.5
23	10.5	9.0	14.0	11.5	18.0	16.0	19.5	17.0	19.5	17.5	18.5	16.5
24	9.0	8.5	14.5	11.5	18.0	16.0	20.0	18.0	19.5	17.5	18.5	16.5
25	9.0	8.0	15.5	12.5	17.5	16.0	20.5	18.0	19.5	18.0	18.5	16.5
26	10.5	8.5	15.0	13.0	18.0	15.0	21.0	18.5	19.5	18.0	18.0	16.0
27	11.0	9.0	14.5	12.5	18.0	15.0	20.0	18.5	19.5	18.0	18.0	15.5
28	12.5	9.5	14.0	12.5	19.0	16.0	20.0	18.5	19.5	18.0	18.0	15.0
29	13.0	10.0	14.0	11.5	19.5	17.0	20.0	18.0	19.0	17.5	17.5	15.0
30	12.5	10.5	14.5	11.0	19.0	17.5	20.0	18.0	19.0	17.5	17.5	15.0
31	---	---	15.5	12.0	---	---	20.0	18.0	19.5	17.5	---	---
MONTH	13.0	6.5	15.5	9.0	19.5	12.5	21.0	15.0	20.5	16.5	19.5	15.0

11528500 HAYFORK CREEK NEAR HYAMPOM, CALIF.

LOCATION.--Lat 40°37'34", long 123°26'01", in SE¼NW¼ sec.19, T.3 N., R.7 E., Trinity County, Trinity National Forest, temperature recorder at gaging station on right bank, 1.2 mi (1.9 km) upstream from mouth, and 1.3 mi (2.1 km) northeast of Hyampom.

DRAINAGE AREA.--378 mi^2 (979 km^2).

PERIOD OF RECORD.--Water temperatures: December 1960 to September 1974 (discontinued).

EXTREMES.--Current year:
Water temperatures: Maximum, 24.0°C Aug. 2, 4; minimum, 2.5°C Jan. 9-11.
Period of record:
Water temperatures (1960-68, 1971-74): Maximum (1960-61, 1962-66, 1967-68, 1971-74), 28.5°C July 13, 1961; minimum (1960-68, 1972-74), freezing point on several days in 1962 and 1968.

REMARKS.--Recorder stopped Feb. 26 to Mar. 1, Mar. 16 to Apr. 9, May 10 to June 10.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	14.5	10.0	9.0	8.5	8.0	7.0	5.5	6.5	6.5	---	---
2	15.5	13.5	9.5	8.5	8.0	8.0	5.5	4.5	6.5	6.0	7.0	6.5
3	14.5	12.5	9.0	8.5	8.5	8.0	5.5	5.0	6.0	5.5	6.5	5.5
4	14.0	12.0	8.5	8.0	8.5	8.0	5.0	4.5	6.0	5.5	7.0	6.5
5	13.5	12.0	8.0	8.0	9.0	8.0	5.0	4.5	6.0	5.5	8.0	6.0
6	12.5	12.0	8.5	8.0	9.0	8.5	4.5	4.0	5.5	5.0	8.0	7.5
7	14.0	12.0	9.5	8.5	9.5	9.0	4.0	4.0	5.5	5.0	7.5	6.5
8	13.0	12.5	10.5	9.5	9.5	9.0	4.0	3.0	5.5	5.0	6.5	5.5
9	14.0	12.5	11.0	10.5	9.0	8.0	3.0	2.5	6.0	5.5	7.0	5.5
10	13.5	12.0	11.0	10.5	8.5	8.0	3.0	2.5	6.0	5.5	7.0	6.5
11	13.0	12.0	10.5	10.5	9.0	8.5	3.5	2.5	6.0	5.5	7.5	6.5
12	13.0	11.5	10.5	9.0	8.5	8.0	4.0	3.0	6.5	5.5	7.5	7.0
13	13.0	11.5	9.0	8.0	8.5	8.0	5.0	4.0	5.5	5.5	7.5	6.5
14	13.5	12.0	9.0	8.0	8.5	8.0	5.5	4.5	6.5	5.5	8.5	7.5
15	13.5	12.0	9.0	9.0	8.0	8.0	7.0	5.5	6.5	6.0	8.5	7.5
16	13.5	11.5	9.0	9.0	8.5	8.0	7.5	6.5	7.0	6.5	---	---
17	13.5	11.5	9.0	8.5	8.5	8.0	7.5	7.0	6.5	6.5	---	---
18	13.0	11.5	9.0	8.5	8.0	7.0	8.0	7.5	6.5	6.5	---	---
19	12.5	11.5	8.5	8.0	8.0	7.0	8.0	7.5	6.5	6.0	---	---
20	13.0	12.0	8.0	8.0	8.0	7.5	7.5	6.5	6.5	6.0	---	---
21	13.5	13.0	8.0	8.0	8.0	7.5	6.5	5.5	6.5	6.0	---	---
22	13.5	13.0	8.0	8.0	8.5	8.0	5.5	5.0	6.0	5.5	---	---
23	13.0	12.0	8.0	8.0	8.5	8.0	6.0	5.5	6.0	5.5	---	---
24	12.0	11.5	8.0	8.0	8.5	8.0	6.0	5.5	6.0	5.5	---	---
25	11.5	10.5	8.0	8.0	8.5	8.5	7.0	6.5	7.0	6.5	---	---
26	10.5	10.0	8.0	7.5	8.5	8.0	7.0	6.5	---	---	---	---
27	10.5	9.5	8.0	8.0	8.0	7.5	6.5	5.5	---	---	---	---
28	10.5	9.0	8.5	8.0	8.5	8.0	6.5	6.5	---	---	---	---
29	10.5	9.0	9.0	8.5	8.5	8.0	6.5	6.0	---	---	---	---
30	9.5	8.5	9.0	8.5	8.0	7.0	6.0	5.5	---	---	---	---
31	9.5	8.0	---	---	7.5	7.0	6.5	6.0	---	---	---	---
MONTH	16.5	8.0	11.0	7.5	9.5	7.0	8.0	2.5	7.0	5.0	---	---

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

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CALIF.

LOCATION.--Lat 40°39'00", long 123°29'35", in NW¼SW¼ sec.10, T.3 N., R.6 E., Trinity County, Trinity National Forest, temperature recorder at gaging station 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).
PERIOD OF RECORD.--Water temperatures: October 1965 to current year.
Sediment records: October 1966 to September 1970.
EXTREMES.--Current year:
Water temperatures: Maximum, 28.0°C July 28, Aug. 3, 4; minimum, 2.0°C Jan. 10.
Period of record:
Water temperatures: Maximum, 29.0°C June 30, July 1, 3, 1967, Aug. 1, 2, 1968; minimum, freezing point on several days in 1965, 1967-68, 1972 (corrected).
REMARKS.--Recorder stopped Mar. 22 to Apr. 9.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	14.5	12.5	10.0	8.0	7.0	6.0	4.5	6.5	5.0	6.5	6.0
2	18.5	12.5	11.0	9.5	7.0	7.0	4.5	3.5	6.0	5.5	6.0	5.5
3	19.0	12.0	10.5	9.0	7.5	7.0	4.5	3.5	6.0	5.0	6.5	5.5
4	18.5	11.5	10.5	9.0	7.5	7.0	4.0	3.5	6.0	5.0	7.0	5.5
5	18.5	13.0	10.0	8.5	8.0	7.5	4.5	3.5	6.0	4.5	7.5	6.5
6	16.0	14.0	9.5	8.5	8.5	8.0	4.5	4.0	5.0	3.5	8.0	7.5
7	17.5	13.5	10.0	9.5	9.0	8.5	4.0	3.5	6.0	5.0	7.5	5.5
8	15.0	13.0	11.0	10.0	9.0	8.5	3.5	3.0	6.0	5.5	5.5	4.0
9	18.0	14.0	11.5	11.0	8.5	7.5	3.0	2.5	6.0	5.5	6.0	4.5
10	17.0	13.0	11.0	11.0	8.0	7.5	3.0	2.0	6.0	5.0	7.0	6.0
11	17.5	13.0	11.0	11.0	8.0	8.0	3.5	2.5	6.0	5.0	8.0	6.5
12	17.5	12.0	11.0	9.5	8.0	7.5	4.0	3.0	6.0	5.5	7.5	7.0
13	18.5	12.0	9.5	8.0	8.0	7.5	5.5	4.0	6.0	5.5	7.5	6.5
14	18.5	13.5	8.5	7.5	8.0	7.5	7.5	5.5	6.5	6.0	8.5	7.5
15	18.5	13.5	9.0	8.5	8.0	7.5	8.0	7.5	6.5	6.0	9.5	8.5
16	18.0	12.5	9.0	8.5	8.5	7.5	8.0	8.0	6.5	6.0	9.5	8.5
17	18.5	12.5	8.5	7.0	8.5	8.0	8.0	8.0	6.5	6.0	10.5	9.0
18	18.5	12.0	7.5	6.5	8.0	7.5	9.0	8.0	6.5	6.0	11.0	9.0
19	16.5	12.5	6.5	6.0	8.0	7.0	8.5	7.5	6.5	6.0	10.0	8.0
20	18.0	14.5	7.0	6.5	8.0	8.0	7.5	6.0	6.5	5.5	10.0	8.0
21	16.0	15.0	7.0	6.0	8.5	8.0	6.0	5.0	6.0	5.5	10.5	8.0
22	15.0	13.0	7.0	6.0	8.5	8.0	5.5	5.0	6.5	5.5	---	---
23	13.0	11.5	7.0	6.5	8.5	8.0	6.0	5.0	7.0	6.5	---	---
24	12.0	11.0	7.5	7.0	9.0	8.0	6.0	5.0	7.5	6.5	---	---
25	12.5	11.0	7.5	7.0	9.5	9.0	6.0	5.0	7.5	7.5	---	---
26	12.0	10.5	7.5	6.5	9.5	9.0	6.0	5.0	7.5	7.5	---	---
27	13.0	10.5	8.0	7.0	9.0	9.0	5.5	4.5	7.5	7.0	---	---
28	13.0	11.0	9.0	8.0	9.0	8.0	6.0	5.0	7.0	6.5	---	---
29	13.0	10.5	9.0	8.5	8.5	7.5	5.5	4.5	---	---	---	---
30	13.0	9.5	9.0	8.0	7.5	6.5	5.5	5.0	---	---	---	---
31	13.0	10.5	---	---	6.5	6.0	6.0	5.0	---	---	---	---
MONTH	19.0	9.5	12.5	6.0	9.5	6.0	9.0	2.0	7.5	3.5	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	14.0	11.0	20.5	13.0	23.0	17.5	27.5	20.0	25.0	17.5
2	---	---	14.0	9.5	20.5	13.5	23.5	16.0	27.0	21.0	25.0	18.0
3	---	---	14.5	9.0	20.0	14.0	24.5	16.5	28.0	21.5	24.0	17.5
4	---	---	15.5	10.0	18.5	14.0	23.5	16.5	28.0	21.0	24.5	17.5
5	---	---	16.5	11.0	20.5	15.0	24.0	17.0	24.0	21.0	25.5	16.5
6	---	---	16.5	11.5	20.5	14.0	23.5	17.0	27.0	20.0	24.5	16.5
7	---	---	17.0	12.0	19.5	13.0	20.0	16.0	25.5	18.5	25.0	18.0
8	---	---	17.0	12.5	20.5	13.0	21.5	17.0	26.0	18.5	23.5	15.5
9	---	---	15.5	11.0	22.0	14.0	21.5	16.0	27.0	18.5	24.0	16.5
10	10.0	7.0	16.0	10.0	23.0	15.0	20.0	15.5	26.5	19.0	23.5	16.5
11	11.5	8.0	16.5	10.5	22.5	16.0	21.5	15.0	26.5	18.5	22.5	15.0
12	11.5	9.0	15.0	10.0	23.5	15.5	23.0	15.0	25.0	17.5	23.5	14.0
13	11.5	8.0	14.0	9.5	23.5	15.5	23.0	17.0	24.0	16.0	23.0	14.0
14	12.0	9.0	14.5	9.0	22.0	16.0	23.0	17.0	24.5	16.0	23.0	13.5
15	11.0	9.0	14.5	9.0	22.0	16.0	22.5	16.5	25.0	16.0	23.0	13.5
16	13.0	9.0	11.5	8.0	22.0	15.5	23.5	16.5	25.0	16.5	23.0	14.0
17	13.0	10.0	10.5	7.5	21.5	15.5	24.5	17.5	24.5	16.5	23.0	14.5
18	11.0	9.0	12.5	7.5	22.5	16.0	26.0	19.5	23.0	16.5	23.0	14.5
19	11.0	7.5	14.0	8.0	23.5	16.5	26.0	18.5	22.5	16.0	22.5	14.5
20	12.5	9.0	15.5	10.0	21.5	15.5	25.5	18.5	23.5	15.5	22.0	14.0
21	14.0	10.5	16.5	10.5	22.5	16.0	25.5	18.5	24.0	16.5	22.5	14.5
22	13.5	10.5	17.0	10.0	22.5	16.5	24.5	18.0	24.5	17.0	22.5	14.5
23	11.5	9.0	17.0	11.5	22.5	16.0	26.0	18.5	24.5	18.0	22.5	14.5
24	9.0	7.5	18.0	11.0	23.0	15.5	27.5	19.5	25.0	17.5	22.5	14.5
25	9.0	6.5	19.0	12.5	21.5	15.5	27.0	20.0	25.0	18.0	22.0	14.5
26	10.5	7.5	20.0	13.5	22.0	14.5	27.0	21.0	25.5	18.0	21.0	14.5
27	12.5	8.0	19.5	14.0	22.0	14.5	27.0	21.0	25.0	17.5	21.5	13.5
28	13.5	9.0	19.5	13.5	23.5	15.5	28.0	21.0	25.0	17.5	21.0	12.5
29	14.5	10.0	18.5	12.5	25.5	17.5	27.5	20.5	23.0	18.0	21.0	13.0
30	15.0	11.0	19.0	11.5	25.0	18.5	27.0	19.0	24.0	17.5	21.0	13.0
31	---	---	19.5	11.5	---	---	27.0	19.5	25.5	18.0	---	---
MONTH	---	---	20.0	7.5	25.5	13.0	28.0	15.0	28.0	15.5	25.5	12.5

11530000 TRINITY RIVER AT HOOPA, CALIF.

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, at gaging station at Hoopa, 0.4 mi (0.6 km) upstream from Supply Creek.

DRAINAGE AREA.--2,854 mi² (7,392 km²).

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to current year.
Water temperatures: November 1956 to current year.
Sediment records: Water years 1955-56 (partial-record station), November 1956 to current year.
Prior to October 1964, published as "near Hoopa."

EXTREMES.--Current year:
Water temperatures: Maximum, 26.5°C on several days during July and August; minimum, 3.5°C Jan. 9-11.
Sediment concentrations: Maximum daily, 4,350 mg/l Jan. 16; minimum daily, 2 mg/l on several says during August.
Sediment discharge: Maximum daily, 1,450,000 tons (1,320,000 tonnes) Jan. 16; minimum daily, 3.3 tons (3.0 tonnes) Aug. 23-25.
Period of record:
Water temperatures: Maximum (1963-66, 1968-69, 1973 to current year), 27.0°C July 16, 1965; minimum (1964-71, 1973 to current year), 2.0°C on several days in 1967-68, 1971.
Sediment concentrations: Maximum daily, 20,400 mg/l Dec. 23, 1964; minimum daily, 1 mg/l on many days in 1957-64, 1968-70.
Sediment discharge: Maximum daily, 8,900,000 tons (8,070,000 tonnes) Dec. 23, 1964; minimum daily, 0.81 ton (0.73 tonne) Sept. 30, 1969.

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

REVISIONS (WATER YEARS).--WRD Calif. 1970: 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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...	1005	--	603	199	7.8	16.5	1	10.9
NOV.								
13...	1305	--	22300	117	7.4	9.5	130	12.1
DEC.								
10...	1115	--	9200	135	7.4	8.0	40	13.2
JAN.								
14...	1130	25000	--	135	7.5	8.0	100	13.2
FEB.								
04...	1035	--	9000	144	8.3	6.5	50	13.8
MAR.								
04...	1145	--	15600	148	7.7	8.5	80	13.5
APR.								
01...	1040	37000	--	111	8.3	7.5	360	12.9
MAY								
13...	1005	--	6050	124	7.6	11.0	20	11.4
JUNE								
10...	0935	--	3710	126	7.6	16.0	8	9.4
JULY								
08...	1110	--	1490	163	7.9	18.0	1	9.5
AUG.								
05...	1040	--	893	175	7.4	22.0	1	--
SEP.								
03...	0950	--	582	204	8.0	20.0	1	9.7

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV.											
13...	1305	--	22300	--	--	16	4.1	2.5	.8	64	0
APR.											
01...	1040	37000	--	48000	1100	--	--	2.2	--	63	0
AUG.											
05...	1040	--	893	--	--	--	--	3.7	--	94	0

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	ALKALINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)
NOV.										
13...	52	4.9	1.4	.08	--	--	.00	75	.10	57
APR.										
01...	52	--	1.6	.02	.70	1.7	.02	--	--	48
AUG.										
05...	77	--	3.8	.05	--	--	.01	--	--	83

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.										
13...	4	9	.1	9.5	4.1	0	--	--	--	--
APR.										
01...	0	--	.1	7.5	.5	0	10	100	10	280
AUG.										
05...	6	--	.2	22.0	6.0	0	--	--	--	--

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	603	6	9.8	1400	54	204	43600	1440	170000
2	593	4	6.4	1310	49	173	28700	880	68200
3	589	5	8.0	1220	42	138	19900	650	34900
4	575	6	9.3	1200	38	123	14700	550	21800
5	575	6	9.3	2740	198	1630	12000	470	15200
6	607	6	9.8	6330	440	8290	11000	440	13100
7	675	6	11	11000	460	13700	11900	627	20700
8	775	13	27	16500	770	35000	13000	605	21200
9	760	10	21	12200	500	16500	10500	460	13000
10	719	9	17	20400	1030	56800	9180	390	9670
11	689	9	17	33300	1440	128000	9200	370	9190
12	670	9	16	33000	990	88200	9240	386	9630
13	650	9	16	23200	810	50700	13500	708	26600
14	636	8	14	18300	690	34100	13900	550	20600
15	626	10	17	15500	625	26200	11900	372	12000
16	617	11	18	19300	842	44100	10900	288	8480
17	631	12	20	19000	515	26400	15800	441	20200
18	636	14	24	16400	510	22600	16700	225	10100
19	641	14	24	12200	585	19300	13200	129	4600
20	650	14	25	10500	520	14700	14800	376	16500
21	804	55	119	10000	455	12300	35900	1170	118000
22	2930	227	2110	8800	405	9620	33700	810	73700
23	8910	807	22500	7850	370	7840	24600	650	43200
24	6390	405	6990	8040	420	9120	20600	620	34500
25	3590	150	1450	7670	475	9840	18900	560	28600
26	2640	90	642	7500	440	8910	16700	470	21200
27	2100	78	442	7630	370	7620	18000	550	26700
28	1930	74	386	8190	380	8400	22000	720	42800
29	1820	70	344	13500	700	25500	30600	967	82600
30	1610	68	296	32700	2010	182000	32400	680	59500
31	1470	60	238	---	---	---	24700	540	36000
MONTH	47111	---	35836.6	386880	---	868008	581720	---	1092470

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	19800	470	25100	11600	1090	34200	26800	2700	195000
2	15000	440	17800	10200	640	17600	24200	1600	105000
3	12200	420	13800	8910	470	11300	18700	1140	57600
4	10100	390	10600	8150	420	9240	14600	920	36300
5	9220	360	8960	7340	380	7530	12100	860	28100
6	8310	300	6730	6750	340	6200	10900	820	24100
7	7420	240	4810	6350	310	5310	10800	780	22700
8	6690	210	3790	6020	280	4550	9050	720	17600
9	6140	200	3320	5670	255	3900	8030	670	14500
10	5670	195	2990	5350	230	3320	7460	610	12300
11	5370	185	2680	5120	210	2900	8150	695	15300
12	7050	180	3430	5010	190	2570	12400	1060	35500
13	15000	510	20700	4890	170	2240	11800	770	24500
14	25000	1300	87800	4620	160	2000	10800	540	15700
15	61500	3350	556000	4470	150	1810	11500	560	17400
16	118000	4350	1450000	4860	200	2620	11300	590	18000
17	94000	3690	937000	4720	180	2290	10800	530	15500
18	61900	2800	468000	6310	580	11800	10400	425	11900
19	58400	2400	378000	16000	2460	106000	9400	335	8500
20	46000	1920	238000	12800	1300	44900	8700	274	6440
21	37900	1550	159000	10500	900	25500	8230	246	5470
22	32900	1350	120000	9260	690	17300	7850	245	5190
23	27700	1280	95700	8090	550	12000	7440	240	4820
24	23400	1120	70800	7520	460	9340	7070	238	4540
25	20700	950	53100	7310	390	7700	7090	325	6220
26	18200	820	40300	7660	330	6830	7340	391	7750
27	16300	710	31200	7890	285	6070	7310	299	5900
28	14000	630	23800	13800	1280	62300	9380	517	13300
29	12100	570	18600	---	---	---	18500	919	63300
30	10000	520	14000	---	---	---	70000	3810	720000
31	9790	605	16000	---	---	---	45000	1990	242000
MONTH	815760	---	4882010	217170	---	429320	443100	---	1760430

	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	37000	2650	265000	8190	300	6630	4830	128	1670
2	45100	1800	219000	6270	245	4150	4920	130	1730
3	34600	1200	112000	5910	240	3830	4890	130	1720
4	28300	1000	76400	5950	240	3860	4740	120	1540
5	24700	940	62700	6240	230	3880	4720	120	1530
6	21400	830	48000	6740	230	4190	4970	130	1740
7	18300	700	34600	7150	230	4440	4450	105	1260
8	16800	610	27700	7700	223	4640	4010	100	1080
9	15700	550	23300	7250	213	4170	3800	102	1050
10	14400	510	19800	6610	210	3750	3800	80	821
11	12800	490	16900	6380	210	3620	3890	80	840
12	11500	470	14600	6300	210	3570	3890	58	609
13	10700	450	13000	6020	200	3250	3660	52	514
14	10400	420	11800	5810	200	3140	3500	48	454
15	10100	400	10900	5880	196	3110	3350	42	380
16	9810	390	10300	5730	188	2910	3120	38	320
17	9640	370	9630	5590	180	2720	3020	22	179
18	9890	360	9610	5550	180	2700	2870	23	178
19	9480	340	8700	5430	170	2490	2930	22	174
20	8890	320	7680	5240	170	2410	3080	22	183
21	8700	310	7280	5150	160	2220	2660	21	151
22	8700	290	6810	5150	160	2220	2520	20	136
23	8760	270	6390	5180	150	2100	2370	20	128
24	8630	256	5970	5160	150	2090	2310	20	125
25	8310	240	5380	5360	150	2170	2200	20	119
26	8070	230	5010	5790	140	2190	2050	20	111
27	7850	220	4660	6190	140	2340	1940	20	105
28	7770	210	4410	5770	133	2070	1840	20	99
29	7870	270	5740	5440	130	1910	1850	20	100
30	8190	350	7740	5030	130	1770	1920	49	254
31	---	---	---	4820	130	1690	---	---	---
MONTH	442360	---	1061010	184980	---	96230	100100	---	19300

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

	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	1970	40	213	1030	8	22	569	3	4.6
2	1840	31	154	997	7	19	559	4	6.0
3	1670	25	113	992	5	13	577	5	7.8
4	1570	20	85	933	4	10	587	5	7.9
5	1550	20	84	897	5	12	587	5	7.9
6	1540	18	75	915	5	12	578	4	6.2
7	1490	18	72	933	6	15	577	5	7.8
8	1510	14	57	866	6	14	570	5	7.7
9	2040	10	55	810	6	13	566	5	7.6
10	1820	8	39	766	6	12	566	5	7.6
11	1530	7	29	745	5	10	566	5	7.6
12	1420	7	27	720	5	9.7	563	4	6.1
13	1360	6	22	701	5	9.5	554	5	7.5
14	1350	6	22	690	5	9.3	546	6	8.8
15	1340	8	29	685	4	7.4	544	5	7.3
16	1310	4	14	671	2	3.6	537	5	7.2
17	1280	5	17	641	2	3.5	535	5	7.2
18	1280	6	21	632	2	3.4	535	6	8.7
19	1270	7	24	642	2	3.5	535	5	7.2
20	1290	8	28	642	2	3.5	529	5	7.1
21	1270	5	17	642	2	3.5	522	5	7.0
22	1220	6	20	634	2	3.4	515	8	11
23	1160	7	22	620	2	3.3	511	9	12
24	1110	11	33	610	2	3.3	506	10	14
25	1080	17	50	607	2	3.3	506	9	12
26	1090	6	18	593	3	4.8	509	8	11
27	1090	14	41	588	4	6.4	509	9	12
28	1190	10	32	582	3	4.7	505	9	12
29	1290	9	31	577	3	4.7	505	9	12
30	1190	9	29	577	3	4.7	503	9	12
31	1110	9	27	576	3	4.7	---	---	---
MONTH	43230	---	1500	22514	---	252.2	16271	---	260.8
YEAR	3301196		10246628						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	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. FALL DIAM. % FINER THAN .062 MM
OCT.												
23...	1800	12.0	--	12100	1300	42500	11	15	24	32	40	--
NOV.												
11...	1620	--	--	36400	1540	151000	12	18	26	37	48	--
29...	2115	--	--	18000	872	42400	9	12	18	24	30	37
30...	1930	8.0	--	40300	1820	198000	10	16	23	32	42	53
DEC.												
01...	1235	8.0	--	44400	1430	171000	12	18	26	36	44	55
17...	1415	9.0	--	17600	591	28100	9	13	18	24	29	--
20...	1800	7.0	--	17100	605	27900	--	--	--	--	--	--
21...	1030	8.0	--	37700	1650	168000	9	14	21	30	36	--
22...	1515	9.0	--	32000	753	65100	10	15	22	31	38	--
29...	1310	9.0	--	32800	1310	116000	7	11	17	24	32	42
JAN.												
15...	1820	9.0	--	65400	3130	553000	10	17	24	34	41	50
17...	1800	--	--	78200	3320	701000	13	20	29	40	52	63
18...	1600	--	--	59600	2570	414000	10	18	24	32	41	48
18...	2145	--	--	60100	2590	420000	10	17	24	33	41	50
20...	1735	9.0	--	43800	1730	205000	8	12	19	26	35	--
22...	1800	7.0	--	32200	1300	113000	7	11	17	24	31	--
25...	2205	7.0	--	19600	871	46100	7	11	16	23	29	--
FEB.												
19...	1820	8.0	--	16600	2040	91400	--	--	--	--	--	40
27...	1400	7.0	--	7910	260	5550	15	20	27	33	37	41
MAR.												
02...	1120	7.0	--	24200	1560	102000	11	16	21	27	33	40
30...	2315	8.0	70000	--	2710	512000	--	--	--	--	--	59
APR.												
01...	1930	8.0	--	52800	2720	388000	--	--	--	--	--	50
04...	1530	9.0	--	27700	1060	79300	10	16	21	27	32	--
05...	1800	9.0	--	24300	920	60400	--	--	--	--	--	39
MAY												
08...	1130	13.5	--	8030	223	4840	13	18	22	27	32	--

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT.											
23...	47	--	58	--	71	--	85	--	94	--	100
NOV.											
11...	57	--	69	--	84	--	85	--	96	--	100
29...	--	47	--	64	--	92	--	100	--	--	--
30...	--	67	--	85	--	96	--	100	--	--	--
DEC.											
01...	--	70	--	88	--	98	--	100	--	--	--
17...	34	--	41	--	51	--	65	--	85	--	98
20...	32	--	37	--	48	--	67	--	86	--	94
21...	52	--	66	--	87	--	97	--	99	--	100
22...	46	--	56	--	76	--	92	--	97	--	100
29...	--	53	--	77	--	94	--	100	--	--	--
JAN.											
15...	--	62	--	80	--	92	--	100	--	--	--
17...	--	82	--	95	--	100	--	--	--	--	--
18...	--	62	--	83	--	98	--	100	--	--	--
18...	--	66	--	86	--	99	--	100	--	--	--
20...	44	--	56	--	79	--	95	--	99	--	100
22...	38	--	49	--	72	--	92	--	100	--	--
25...	35	--	46	--	67	--	91	--	99	--	100
FEB.											
19...	--	48	--	63	--	79	--	89	--	100	--
27...	--	46	--	60	--	93	--	100	--	--	--
MAR.											
02...	--	52	--	74	--	95	--	100	--	--	--
30...	--	74	--	92	--	99	--	100	--	--	--
APR.											
01...	--	65	--	88	--	99	--	100	--	--	--
04...	38	--	48	--	67	--	88	--	95	--	97
05...	--	47	--	67	--	95	--	100	--	--	--
MAY											
08...	36	--	40	--	49	--	68	--	92	--	100

11530300 BLUE CREEK NEAR KLAMATH, CALIF.

LOCATION.--Lat 41°27'00", long 123°53'40", in NE¼NW¼ sec.12, T.12 N., R.2 E., Humboldt County, temperature recorder at gaging station on left bank, 600 ft (183 m) downstream from West Fork, 3.0 mi (5.0 km) upstream from mouth, and 9.2 mi (14.8 km) southeast of Klamath.

DRAINAGE AREA.--120 mi^2 (311 km^2).

PERIOD OF RECORD.--Water temperatures: October 1965 to current year.

EXTREMES.--Current year:
Water temperatures: Maximum, 20.5°C Aug. 2-4; minimum, 5.0°C Jan. 10.
Period of record:
Water temperatures: Maximum, 27.0°C July 23, 1970; minimum, 3.5°C Dec. 11, 12, 1972.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.5	10.5	9.0	16.5	12.5	18.5	15.5	20.0	17.0	19.0	17.0
2	8.0	7.5	11.5	8.5	16.5	13.0	18.5	15.0	20.5	17.5	19.0	17.0
3	8.5	7.5	11.0	9.0	15.5	13.5	18.5	15.0	20.5	18.0	19.0	17.0
4	9.5	8.0	12.5	9.5	14.5	13.5	18.5	15.0	20.5	17.5	19.0	17.0
5	9.0	8.5	12.5	10.0	15.0	13.5	18.0	15.0	19.0	18.0	19.0	17.0
6	9.0	8.0	13.0	10.5	17.0	13.5	17.0	15.5	20.0	17.0	19.0	17.0
7	9.5	8.0	12.5	10.5	16.5	13.5	16.5	15.0	20.0	17.0	19.0	17.0
8	9.0	8.0	13.0	10.5	17.0	13.5	16.0	15.5	20.0	16.5	19.0	17.0
9	9.0	8.0	10.5	8.0	17.5	13.5	16.0	15.0	20.0	17.0	19.0	17.0
10	10.0	8.0	9.0	8.0	18.0	14.0	17.0	14.5	20.0	17.0	19.0	17.0
11	9.5	8.5	10.0	8.0	17.0	14.0	17.5	14.0	20.0	17.0	18.5	16.5
12	10.0	8.0	9.5	8.5	17.0	14.0	18.0	14.5	20.0	17.0	18.5	16.0
13	10.0	8.0	10.0	8.0	16.0	14.0	18.5	14.5	19.5	16.5	18.5	16.0
14	10.5	8.5	10.5	8.0	16.0	14.0	18.5	15.0	19.0	16.5	18.5	16.0
15	10.5	8.5	11.5	9.5	17.0	14.0	18.5	15.0	19.0	16.0	18.5	16.0
16	10.5	8.5	10.0	9.0	15.5	13.5	18.0	15.0	19.0	16.5	18.5	16.0
17	10.0	9.0	10.5	8.5	17.5	13.5	17.5	15.5	19.0	16.5	18.5	16.0
18	9.5	9.0	10.0	8.5	17.5	14.5	18.0	16.0	18.5	16.5	18.5	16.0
19	10.5	8.5	11.0	8.5	16.0	14.5	19.0	16.0	19.5	16.0	18.5	16.0
20	10.5	9.0	13.0	10.0	17.5	14.0	19.0	16.0	19.5	16.0	18.5	16.0
21	11.5	9.0	13.0	10.5	18.0	14.5	19.5	16.0	19.0	16.5	18.0	16.5
22	10.5	9.5	13.0	10.5	17.5	14.5	19.5	16.0	19.5	15.5	18.0	16.5
23	10.0	8.5	13.0	11.0	17.5	14.5	19.5	17.5	19.5	16.5	18.0	16.5
24	9.5	8.5	14.0	11.0	17.0	14.5	20.0	17.5	20.0	16.5	17.5	16.5
25	9.0	8.0	15.5	12.5	16.5	14.5	20.0	17.0	19.5	17.0	17.5	16.5
26	10.5	8.5	16.0	12.5	17.0	13.5	20.0	18.0	20.0	17.5	17.5	16.5
27	10.5	8.0	15.5	13.5	18.0	14.5	19.5	17.0	19.5	17.0	17.0	16.0
28	11.5	8.5	14.5	12.5	18.0	14.0	20.0	17.0	19.0	17.0	16.5	15.5
29	11.5	9.5	15.0	12.0	18.5	15.0	20.0	17.0	18.0	17.5	16.5	16.0
30	11.0	10.0	15.0	12.0	18.0	15.5	20.0	17.0	17.5	17.0	16.5	15.5
31	---	---	15.5	12.0	---	---	20.0	17.0	18.5	17.0	---	---
MONTH	11.5	7.5	16.0	8.0	18.5	12.5	20.0	14.0	20.5	15.5	19.0	15.5

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.
(International Hydrological Decade Station)

LOCATION.--Lat 41°30'45", long 123°58'30", in SW¼ sec.17, T.13 N., R.2 E., Del Norte County, at gaging station 2.8 mi (4.5 km) upstream from Turwar Creek and 3.3 mi (5.3 km) east of Klamath.

DRAINAGE AREA.--12,100 mi² (31,340 km²), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to current year.
Water temperatures: November 1965 to current year.
Sediment records: Water years 1955-56 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 25.0°C Aug. 2-4.
Period of record:
Water temperatures: Maximum (1966-68, 1970-71, 1972 to current year), 25.5°C on several days in 1968; minimum (1965-70, 1971-72), 2.5°C Feb. 2, 1972.

REMARKS.--Selected chemical-quality samples collected by California Department of Water Resources. No thermograph record Oct. 26 to Nov. 8, Nov. 14 to Dec. 13, Dec. 19 to Feb, 5, Mar. 10-20, recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.											
02...	0810	2600	2540	17	0	21	9.1	9.7	1.6	112	0
NOV.											
13...	1635	100000	96100	13	60	11	4.7	2.7	.8	57	0
DEC.											
11...	0935	37900	37000	16	50	13	5.4	4.0	.7	70	0
JAN.											
15...	0935	170000	143000	12	50	11	4.1	2.7	.7	49	0
FEB.											
05...	0855	29900	29000	18	20	14	6.4	4.9	.9	78	--
MAR.											
05...	0835	43900	43200	17	40	16	6.7	4.2	1.0	76	--
APR.											
02...	0845	173000	179000	9.7	190	13	3.2	3.6	1.0	57	--
MAY											
14...	0915	23600	--	14	50	13	5.4	3.8	.9	67	--
JUNE											
11...	0910	17800	17600	12	40	12	5.3	2.9	.8	61	--
JULY											
09...	0750	7000	6680	14	20	17	6.5	6.9	1.0	84	--
AUG.											
06...	0830	3730	3700	16	30	20	7.6	6.3	1.8	100	--
SEP.											
04...	0810	3000	2980	18	20	22	7.2	9.2	1.6	110	--

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 NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
02...	92	15	4.6	.2	.05	.13	134	.18	941	90	0
NOV.											
13...	47	5.1	1.0	.0	.06	.42	67	.09	18100	47	0
DEC.											
11...	57	5.5	1.8	.1	.21	.15	82	.11	8390	55	0
JAN.											
15...	40	3.7	1.6	.0	.13	.70	61	.08	28000	44	4
FEB.											
05...	64	5.6	2.6	.1	.31	.17	92	.13	7430	61	0
MAR.											
05...	62	6.9	2.1	.1	.20	.16	93	.13	11000	68	5
APR.											
02...	47	4.9	1.7	.1	.36	1.2	67	.09	31300	46	0
MAY											
14...	55	6.9	2.2	.0	.06	.12	80	.11	5100	55	0
JUNE											
11...	50	4.6	1.6	.0	.03	.05	70	.10	3360	52	2
JULY											
09...	69	7.8	2.3	.0	.01	.03	97	.13	1830	69	0
AUG.											
06...	82	8.5	4.0	.1	.06	.03	114	.16	1150	81	0
SEP.											
04...	90	10	4.4	.1	.07	.06	127	.17	1030	85	0

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
OCT.											
02...	19	.4	216	8.1	15.5	1	--	1.4	90	0	160
NOV.											
13...	11	.2	103	7.3	9.0	100	--	4.6	20	0	80
DEC.											
11...	14	.2	127	7.4	6.5	50	12.9	4.5	30	0	90
JAN.											
15...	12	.2	95	8.0	8.0	200	12.9	.8	30	0	60
FEB.											
05...	15	.3	144	7.5	6.0	70	13.1	3.9	30	0	60
MAR.											
05...	12	.2	148	7.7	8.0	80	13.2	2.4	30	0	90
APR.											
02...	14	.2	108	7.9	8.0	600	13.1	1.1	40	20	140
MAY											
14...	13	.2	119	8.3	11.5	30	11.5	.5	30	0	80
JUNE											
11...	11	.2	110	7.4	17.0	20	9.3	3.9	30	0	80
JULY											
09...	18	.4	154	7.5	17.0	1	8.9	4.3	30	0	110
AUG.											
06...	14	.3	184	7.6	21.5	2	--	4.0	70	0	100
SEP.											
04...	19	.4	203	7.9	20.0	2	8.5	2.2	80	0	130

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
JAN.												
29...	1400	41400	89	210	<.7	6.5	1.3	4.7	1.0	3.8	.02	.11
AUG.												
27...	1510	2880	120	8	<1.3	<.4	2.3	<.4	1.8	<.4	.02	.11

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

11532500 SMITH RIVER NEAR CRESCENT CITY, CALIF.

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, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to current year.
Water temperatures: October 1965 to current year.
Sediment records: Water years 1955-56 (partial-record station).

EXTREMES.--Current year:
Water temperatures: Maximum, 23.5°C July 25, 26; minimum, 4.0°C Jan. 10.
Period of record:
Water temperatures: Maximum (1966-69, 1970 to current year), 24.5°C July 15, 1972, July 26, 27, 1973; minimum (1966-70, 1971 to current year), 0.5°C Dec. 10, 11, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Apr. 15-23, recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT.							
02...	0655	395	141	7.4	13.0	--	12.2
NOV.							
14...	0810	27600	78	7.4	10.0	55	13.6
DEC.							
11...	0810	7560	78	7.3	9.0	10	13.5
JAN.							
15...	1300	63200	63	7.6	9.5	200	13.8
FEB.							
05...	0705	5070	80	7.2	6.0	5	14.2
MAR.							
05...	0645	6660	73	7.3	8.5	5	14.0
APR.							
02...	0700	26800	66	7.4	8.0	50	13.7
MAY							
14...	0705	1570	91	7.4	10.0	1	12.3
JUNE							
11...	0735	1010	101	7.6	16.5	1	9.6
JULY							
09...	0635	586	126	7.8	18.0	1	9.9
AUG.							
06...	0720	298	147	7.5	20.0	1	--
SEP.							
04...	0655	241	154	7.5	19.0	1	9.0

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
02...	0655	395	--	--	--	--	2.5	--	80	0
NOV.										
14...	0810	27600	--	--	3.5	7.7	1.9	.4	46	0
JAN.										
15...	1300	63200	--	--	--	--	1.5	--	38	0
APR.										
02...	0700	26800	5100	40	--	--	1.6	--	36	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)
OCT.										
02...	66	--	2.8	--	--	--	--	--	--	74
NOV.										
14...	38	1.8	2.4	.00	--	--	--	40	.05	40
JAN.										
15...	31	--	1.0	--	--	--	--	--	--	31
APR.										
02...	30	--	2.0	.02	.00	.17	.01	--	--	32

11532500 SMITH RIVER NEAR CRESCENT CITY, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.										
02...	8	--	.1	13.0	5.1	0	--	--	--	--
NOV.										
14...	2	9	.1	10.0	2.9	0	--	--	--	--
JAN.										
15...	0	--	.1	9.5	1.5	0	--	--	--	--
APR.										
02...	2	--	.1	8.0	2.3	0	0	10	10	10

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

11532500 SMITH RIVER NEAR CRESCENT CITY, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

11532620 MILL CREEK NEAR CRESCENT CITY, CALIF.

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, at gaging station 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).

PERIOD OF RECORD.--Chemical analyses: Water year 1974 (partial-record station).
Water temperatures: February to September 1974.
Sediment records: Water year 1974 (partial-record station).

EXTREMES.--February to September 1974:
Water temperatures: Maximum, 23.5°C July 25; minimum, 4.0°C Mar. 7-9.

REMARKS.--No thermograph record June 16-26, recorder stopped.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED ALUMINUM (AL) (UG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
FEB.										
15...	1515	78	8.2	560	470	3.9	1.7	3.2	.5	19
19...	1615	890	7.7	40	50	3.7	1.3	2.9	.4	16
MAR.										
26...	1200	95	8.6	20	60	3.6	1.4	3.5	.4	18
28...	1000	153	8.5	30	80	3.9	1.6	4.3	.6	19
AUG.										
01...	1200	6.9	7.6	10	50	6.3	2.2	4.0	.5	30
13...	1200	3.8	--	--	--	--	--	--	--	--
13...	1220	3.8	--	--	--	--	--	--	--	--
SEP.										
12...	1200	3.5	6.3	0	60	6.3	3.0	4.4	1.3	32
23...	1100	3.7	6.0	10	50	6.5	1.0	4.5	.4	31

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 NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	DISSOLVED PHOSPHORUS (P) (MG/L)
FEB.										
15...	0	16	2.4	4.1	.0	.25	.01	.26	.22	.04
19...	0	13	2.0	3.6	.0	.23	.00	.23	.34	.01
MAR.										
26...	0	15	2.1	4.5	.2	.03	.00	.03	.21	.00
28...	0	16	3.4	5.1	.2	.03	.00	.03	.19	.00
AUG.										
01...	0	23	3.0	4.3	--	.01	.00	.01	.21	.01
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
SEP.										
12...	0	26	3.0	4.1	--	.00	.00	.00	.26	.00
23...	0	25	3.5	4.8	--	.00	.00	.00	.04	.01

11532620 MILL CREEK NEAR CRESCENT CITY, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
FEB.										
15...	.01	36	.05	7.58	17	1	29	.3	46	6.7
19...	.00	31	.04	74.5	15	1	29	.3	40	6.9
MAR.										
26...	.01	33	.04	8.46	15	0	33	.4	47	7.2
28...	.00	37	.05	15.3	16	1	35	.5	50	7.2
AUG.										
01...	--	43	.06	.80	25	0	26	.3	63	7.1
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
SEP.										
12...	--	44	.06	.42	28	2	24	.4	88	7.5
23...	--	42	.06	.42	20	0	32	.4	74	7.4

DATE	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	DIS-SOL-VED ORGANIC CARBON (C) (MG/L)	SUS-PENDED ORGANIC CARBON (C) (MG/L)
FEB.									
15...	9.0	--	--	6.1	--	--	--	3.7	--
19...	10.0	--	--	3.2	--	--	--	1.9	--
MAR.									
26...	--	--	--	1.8	--	--	--	9.2	.1
28...	--	--	--	1.9	--	--	--	1.2	.2
AUG.									
01...	20.0	--	9.2	3.8	--	--	--	1.5	.1
13...	--	--	--	--	B18	B4	--	--	--
13...	--	--	--	--	--	--	3.2	3.2	--
SEP.									
12...	16.0	2	--	1.6	--	--	--	.9	.1
23...	15.5	1	--	2.0	--	--	--	2.5	.2

DATE	TIME	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
FEB.				
15...	1515	0	10	60
19...	--	0	2	20
MAR.				
26...	1200	0	3	10
28...	1000	0	4	0
AUG.				
01...	1200	0	4	0
SEP.				
12...	1200	0	1	10
23...	1100	1	1	0

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

11532620 MILL CREEK NEAR CRESCENT CITY, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	8.5	15.5	11.5	16.0	14.0	21.0	15.5	22.0	18.0	19.5	16.0
2	13.0	8.0	14.5	10.0	14.5	13.5	21.0	15.0	23.0	17.5	19.5	16.5
3	12.0	8.5	12.0	10.0	16.0	13.5	21.0	15.0	22.0	17.5	20.5	16.5
4	12.5	9.0	14.0	10.0	18.0	12.5	21.0	15.0	22.0	17.5	20.5	15.5
5	13.5	8.0	11.0	9.0	17.5	14.0	20.0	16.5	20.0	17.5	20.5	15.0
6	10.5	9.0	12.0	8.5	19.0	14.5	19.0	16.0	21.5	16.5	20.5	15.0
7	11.0	9.0	12.5	8.5	17.5	15.0	17.5	15.5	21.0	16.5	19.0	15.5
8	12.0	8.5	13.0	9.5	16.0	14.5	16.5	15.5	21.0	16.0	20.0	16.0
9	12.5	9.5	13.0	10.0	20.0	14.0	18.0	15.0	22.0	16.0	19.5	16.0
10	12.5	9.0	14.5	10.5	19.0	14.0	18.0	15.0	21.5	16.5	20.0	15.5
11	10.0	9.0	14.5	10.0	18.5	15.0	19.5	14.5	21.0	16.0	20.5	15.5
12	12.5	9.0	15.5	11.0	19.5	15.0	20.0	14.0	20.5	16.0	20.5	15.5
13	12.5	8.5	16.0	11.5	18.5	14.5	20.0	14.5	20.0	15.5	19.0	16.0
14	10.0	8.5	18.5	13.0	17.5	14.5	19.5	16.0	20.0	15.0	18.5	15.5
15	13.0	8.5	18.0	13.0	14.5	13.0	20.0	15.0	20.5	15.5	18.5	15.0
16	12.0	9.0	17.5	12.5	---	---	19.5	14.5	19.0	16.5	18.5	15.0
17	14.0	8.5	16.5	12.5	---	---	19.5	17.0	17.5	16.0	20.0	14.5
18	14.5	9.5	17.0	12.5	---	---	18.5	17.0	20.0	15.0	19.5	14.5
19	13.0	11.0	17.5	11.5	---	---	21.5	16.5	19.5	14.5	19.0	14.0
20	13.0	10.5	18.0	12.0	---	---	21.5	16.5	20.0	14.5	18.5	14.5
21	14.0	9.0	18.0	12.5	---	---	20.5	17.0	20.0	15.0	18.0	15.0
22	15.0	9.5	18.0	13.0	---	---	21.0	15.5	20.5	15.5	18.0	15.0
23	15.5	10.0	15.5	13.5	---	---	21.5	16.0	21.5	17.5	18.0	14.0
24	15.0	11.0	14.0	12.5	---	---	22.5	16.5	21.0	17.0	17.0	13.5
25	16.0	11.0	15.5	13.0	---	---	23.5	17.5	21.0	16.5	17.0	13.5
26	15.5	11.5	17.0	13.5	---	---	22.5	18.5	21.0	16.5	18.0	14.5
27	16.0	11.5	17.5	12.0	20.0	15.0	21.0	18.0	20.5	16.5	18.0	13.0
28	14.5	11.0	18.5	12.5	21.5	14.5	21.5	18.0	18.0	16.5	16.5	13.0
29	15.5	11.0	19.5	13.0	23.0	17.0	21.0	18.0	17.0	16.0	15.5	14.0
30	15.0	11.5	20.0	14.0	22.0	17.0	22.0	17.5	17.0	16.0	16.5	12.5
31	---	---	18.0	14.0	---	---	23.0	18.0	17.0	16.0	---	---
MONTH	16.0	8.0	20.0	8.5	---	---	23.5	14.0	23.0	14.5	20.5	12.5

11532620 MILL CREEK NEAR CRESCENT CITY, CALIF.--Continued

SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)
JAN.					
16...	1330	--	2820	400	3050
FEB.					
15...	1440	9.0	82	10	2.2
19...	1530	10.0	906	22	54
MAR.					
08...	1500	7.0	267	38	27
26...	1030	11.0	95	4	1.0
27...	1545	10.5	111	25	7.5
27...	2115	10.0	152	40	16
28...	0745	9.5	157	8	3.4
28...	0950	10.0	152	7	2.9
APR.					
01...	1330	10.0	2010	207	1120
02...	1420	10.0	889	30	72
MAY					
15...	1345	--	29	1	.08
JUNE					
26...	1230	14.0	12	1	.03
AUG.					
01...	1150	20.0	7.2	1	.02
SEP.					
04...	1510	19.5	4.1	2	.02
12...	1200	16.0	3.5	2	.02
23...	1100	15.5	3.7	2	.02

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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
JAN.								
16...	1330	--	2820	400	3050	14	21	29
FEB.								
19...	1530	10.0	906	22	54	--	--	--
APR.								
01...	1330	10.0	2010	207	1120	--	--	--
02...	1420	10.0	889	30	72	--	--	--

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	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
JAN.								
16...	39	48	52	62	73	87	94	100
FEB.								
19...	--	--	61	68	79	90	100	--
APR.								
01...	--	--	58	66	85	93	100	--
02...	--	--	58	67	78	88	100	--

11532620 MILL CREEK NEAR CRESCENT CITY, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	INSTAN-TANEOUS DIS-CHARGE (CFS)	STREAM WIDTH (FT)	SEDI-MENT BEDLOAD DIS-CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
JAN.							
16...	1420	--	5	2800	65	337	3
FEB.							
15...	1400	9.0	--	74	--	.00	--
19...	1615	10.0	5	890	45	34	3
MAR.							
08...	1500	7.0	--	267	--	.00	--
APR.							
02...	1420	10.0	5	889	50	60	1
MAY							
15...	1345	--	--	29	--	.00	--
SEP.							
04...	1510	19.5	--	4.1	--	.00	--
23...	1100	15.5	--	3.7	--	.00	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
JAN.							
16...	6	10	17	25	37	69	100
FEB.							
15...	--	--	--	--	--	--	--
19...	8	29	49	65	75	89	100
MAR.							
08...	--	--	--	--	--	--	--
APR.							
02...	6	25	51	67	78	98	100
MAY							
15...	--	--	--	--	--	--	--
SEP.							
04...	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--

SALTON SEA BASIN
10256000 WHITEWATER RIVER AT WHITE WATER, CALIF.1/

LOCATION.--Lat 33°56'48", long 116°38'24", in NW¼NW¼NE¼ sec.2, T.3 S., R.3 E., Riverside County.
DRAINAGE AREA.--57.4 mi^2 (148.7 km^2).
PERIOD OF RECORD.--Chemical analyses: Water year 1967 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
DEC. 17...	0900	12	46	16	14	4.2	198	0	163
MAR. 25...	0730	19	46	12	12	3.5	184	0	151
JUNE 17...	0730	7.6	52	13	13	3.9	193	0	159
SEP. 23...	0730	8.9	47	13	13	4.2	190	0	156

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
DEC. 17...	42	5.0	.9	.81	226	.31	181	19	14
MAR. 25...	35	3.5	.9	.79	242	.33	165	14	13
JUNE 17...	41	3.9	1.0	.52	243	.33	182	24	13
SEP. 23...	37	4.0	1.0	.70	241	.33	171	15	14

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED BORON (B) (UG/L)
DEC. 17...	.5	390	8.1	13.5	2	10.0	2.5	0
MAR. 25...	.4	320	8.1	11.0	--	10.7	2.3	0
JUNE 17...	.4	370	8.1	17.0	4	8.7	2.5	0
SEP. 23...	.4	340	8.2	19.0	6	8.7	1.9	0

1/ Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

MOJAVE RIVER BASIN

10261100 MOJAVE RIVER BELOW FORK RESERVOIR, NEAR HESPERIA, CALIF.[1/]

LOCATION.--Lat 34°20'38", long 117°14'15", in SW¼NE¼SW¼ sec.18, T.3 N., R.3 W., San Bernardino County.
DRAINAGE AREA.--211 mi^2 (546 km^2).
PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1968, water years 1969-71, 1974 (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV. 21...	0930	11	19	6.0	30	2.3	105	0
JAN. 30...	1200	68	16	7.7	23	1.4	83	0
APR. 24...	0830	41	19	3.6	16	1.2	83	0
JULY 24...	0815	1.2	27	4.1	48	2.3	113	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV. 21...	86	26	15	1.7	1.0	181	.25	72	0
JAN. 30...	68	18	25	.6	.22	141	.19	72	4
APR. 24...	68	12	12	.5	.22	140	.19	62	0
JULY 24...	92	72	13	2.6	.00	218	.30	85	0

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
NOV. 21...	47	1.5	265	7.7	7.0	3	10.7	190
JAN. 30...	41	1.2	230	7.7	4.0	2	11.5	50
APR. 24...	35	.9	185	7.8	12.0	8	10.0	40
JULY 24...	54	2.3	350	8.0	20.5	3	7.8	170

1/ Records furnished by California Department of Water Resources.

MOJAVE RIVER BASIN--Continued

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CALIF.1/

LOCATION.--Lat 34°34'23", long 117°19'11", in SW¼SW¼SE¼ sec.29, T.6 N., R.4 W., San Bernardino County.
DRAINAGE AREA.--514 mi^2 (1,331 km^2).
PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1968, water years 1969 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV.									
21...	1300	32	43	11	51	4.0	205	0	168
JAN.									
30...	1030	36	43	10	47	4.0	196	0	161
APR.									
24...	1200	26	48	9.7	53	5.5	218	0	179
JULY									
24...	1145	16	50	9.8	60	8.6	217	0	178

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
NOV.									
21...	50	28	.6	.68	312	.42	153	0	41
JAN.									
30...	46	29	.5	2.3	291	.40	149	0	40
APR.									
24...	50	32	.6	2.5	367	.50	161	0	41
JULY									
24...	59	40	.7	1.4	367	.50	165	0	43

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED BORON (B) (UG/L)
NOV.								
21...	1.8	525	7.8	13.0	9	8.6	.3	80
JAN.								
30...	1.7	470	7.7	6.0	5	--	.2	140
APR.								
24...	1.8	550	7.8	18.5	5	7.1	.3	50
JULY								
24...	2.0	575	7.8	31.5	5	4.6	.1	260

1/ Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

WALKER RIVER BASIN
10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CALIF.1/

LOCATION.--Lat 38°19'40", long 119°12'50", in SW¼NE¼ sec.34, T.6 N., R.25 E., Mono County.
DRAINAGE AREA.--359 mi² (930 km²).
PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1963, water years 1964 to current year (partial-record station).

DATE	TIME	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
APR.												
29...	1500	22	4.4	16	2.9	103	0	84	17	3.7	.09	142
SEP.												
18...	1430	23	3.8	9.5	2.8	101	0	83	8.2	.0	.75	132

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)
APR.											
29...	.19	73	0	31	.8	208	8.1	10.0	6	9.6	100
SEP.											
18...	.18	73	0	21	.5	185	8.1	15.5	20	6.2	100

CARSON RIVER BASIN
10310000 WEST FORK CARSON RIVER AT WOODFORDS, CALIF.1/

LOCATION.--Lat 38°46'10", long 119°49'55", in NW¼SE¼ sec.34, T.11 N., R.19 E., Alpine County.
DRAINAGE AREA.--65.6 mi² (169.9 km²).
PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1963, water years 1964 to current year (partial-record station).

DATE	TIME	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)
APR.												
29...	1015	5.9	1.6	1.2	.8	29	0	24	3.6	.0	.02	67
SEP.												
18...	1000	9.2	1.9	3.5	1.4	46	0	38	2.1	.0	.00	66

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)
APR.											
29...	.09	21	0	10	.1	58	7.3	4.0	1	11.4	0
SEP.											
18...	.09	31	0	19	.3	87	7.7	9.0	0	9.2	0

PYRAMID AND WINNEMUCCA LAKES BASIN
10336660 BLACKWOOD CREEK NEAR TAHOE CITY, CALIF.

LOCATION.--Lat 39°06'26", long 120°09'40", in NE¼NW¼ sec.36, T.15 N., R.16 E., Placer County.
DRAINAGE AREA.--11.2 mi² (29.0 km²).
PERIOD OF RECORD.--Sediment records: Water year 1974 (partial-record station).

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)
NOV.					
12...	1115	2.0	276	321	239
MAY					
16...	1545	7.0	141	37	14
28...	1745	6.0	225	187	114
JUNE					
06...	1445	9.0	195	52	27
27...	1625	14.0	55	13	1.9

1/ Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

PYRAMID AND WINNEMUCCA LAKES BASIN--Continued
10336673 WARD CREEK LOOP ROAD TRIBUTARY NEAR TAHOE PINES, CALIF.

LOCATION.--Lat 39°08'28", long 120°13'05", in SE¼SW¼ sec.16, T.15 N., R.16 E., Placer County, Tahoe National Forest.
PERIOD OF RECORD.--Sediment records: April 1973 to current year (partial-record station).

WATER QUALITY DATA, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

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)
APR.					
30...	1140	--	5.1	4	.06
MAY					
02...	1845	--	5.1	28	.39
05...	0930	--	5.1	2	.03
07...	0930	2.0	4.1	2	.02
14...	1610	--	22	440	27
JUNE					
08...	1715	--	3.4	3	.03

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

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)
APR.					
18...	1525	2.0	2.9	2	.02
23...	1430	2.0	3.5	2	.02
29...	1030	--	2.4	1	.01
MAY					
01...	1500	3.5	4.7	8	.10
06...	2030	--	13	66	2.3
07...	1940	--	21	147	8.3
08...	1955	1.5	16	96	4.1
09...	1045	3.5	10	19	.51
09...	1405	3.0	14	23	.87
09...	2210	2.0	21	35	2.0
10...	0220	1.5	16	19	.82
10...	0610	1.5	14	27	1.0
10...	1810	2.0	19	44	2.3
11...	1045	--	12	11	.36
12...	0840	2.0	13	18	.63
13...	1450	3.5	13	8	.28
14...	1755	3.0	16	23	.99
15...	1850	--	15	8	.32
17...	1730	1.5	7.7	3	.06
20...	1510	3.0	5.3	5	.07
22...	1620	3.0	14	39	1.5
23...	1555	3.0	17	27	1.2
24...	1210	4.5	12	11	.36
27...	1745	2.5	27	240	17
28...	1045	3.0	13	13	.46
29...	1425	4.0	23	40	2.5
29...	1630	3.5	21	48	2.7
29...	1800	3.0	21	36	2.0
29...	2400	2.0	13	19	.67
30...	0600	2.0	12	7	.23
30...	0800	2.5	11	8	.24
30...	1200	6.0	12	8	.26
30...	1600	6.5	19	66	3.4
JUNE					
01...	1650	--	22	38	2.3
03...	1020	4.5	12	5	.16
05...	1955	4.0	17	22	1.0
07...	1000	4.0	10	4	.11
10...	1715	--	13	9	.32
12...	2000	6.5	11	5	.15
14...	1015	6.0	6.6	3	.05
15...	1815	8.0	7.7	3	.06
19...	1555	8.0	4.4	2	.02
22...	1730	11.5	3.5	1	.01
24...	1545	13.0	2.4	1	.01
JULY					
01...	1315	16.5	.82	1	.00
08...	1055	10.0	.47	2	.00
08...	1540	9.0	3.1	18	.15
09...	1025	7.5	20	62	3.3
09...	1600	8.0	30	71	5.8
10...	1405	10.5	6.2	4	.07

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	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
MAY											
27...	1745	2.5	27	240	17	60	70	80	88	98	100
JULY											
09...	1600	8.0	30	71	5.8	46	56	73	91	100	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

SANTA MARGARITA RIVER BASIN
11044500 SANTA MARGARITA RIVER NEAR FALLBROOK, CALIF.1/

LOCATION.--Lat 33°23'54", long 117°15'44", in NE¼SE¼NE¼ sec.14, T.9 S., R.4 W., San Diego County.
DRAINAGE AREA.--644 mi^2 (1,668 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1967 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
DEC. 19...	1400	3.3	100	41	133	3.3	345	0
MAR. 27...	1230	6.9	105	40	120	2.0	331	0
JUNE 19...	1200	.84	114	44	139	3.5	367	0
SEP. 25...	1215	.63	121	49	154	3.7	417	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
DEC. 19...	283	168	175	.5	.00	822	1.12	418	140
MAR. 27...	271	186	160	.5	.00	874	1.19	428	160
JUNE 19...	301	172	195	.6	.00	933	1.27	463	160
SEP. 25...	342	176	225	.6	.07	1010	1.37	504	160

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
DEC. 19...	41	2.8	1250	8.0	10.0	2	11.1	130
MAR. 27...	38	2.5	1230	8.1	16.0	--	10.8	190
JUNE 19...	39	2.8	1320	8.0	20.0	5	8.6	230
SEP. 25...	40	3.0	1435	7.9	21.5	3	7.6	190

1/ Records furnished by California Department of Water Resources.

SANTA ANA RIVER BASIN
11051500 SANTA ANA RIVER NEAR MENTONE, CALIF.1/

LOCATION.--Lat 34°06'30", long 117°05'59", in NE¼SW¼SW¼ sec.4, T.1 S., R.2 W., San Bernardino County.
DRAINAGE AREA.--209 mi² (541 km²), including area tributary to Baldwin Lake at head of Bear Valley.
PERIOD OF RECORD.--Chemical analyses: January to December 1906, December 1907 to December 1908, water years 1973 to current year (partial-record station). Published as "above Mentone" in 1906-08.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN IN BOTTOM MATERIAL (N) (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)
JAN.												
05...	1530	48	1.8	.01	.03	1.8	.35	.28	.63	--	.25	.05
07...	1410	136	--	--	--	--	.45	.85	1.3	--	.29	--
10...	1130	68	1.8	.01	.03	1.8	.20	.04	.24	--	.07	.01
MAR.												
08...	1030	125	.79	.00	.00	.79	.47	1.6	2.1	--	.72	.00
JUNE												
19...	1045	.70	--	--	--	--	.02	.38	.40	--	.15	.03
AUG.												
28...	1130	.80	.32	.01	.03	.33	.10	.10	.20	1700	.05	.00

DATE	TOTAL PHOSPHORUS IN BOTTOM MATERIAL (MG/KG)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOTTOM MATERIAL (C) (G/KG)	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)
JAN.												
05...	--	346	--	8.0	--	6.7	--	3	0	3	--	<10
07...	--	231	--	8.5	--	--	--	0	--	--	--	<10
10...	--	271	--	7.0	--	5.0	--	9	9	0	--	<10
MAR.												
08...	--	214	--	10.0	--	22	--	6	6	0	--	<10
JUNE												
19...	--	442	8.2	22.0	--	1.8	--	0	0	1	--	<10
AUG.												
28...	28	--	8.8	23.0	<.0	3.2	<.1	2	1	1	0	<10

DATE	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	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 COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)
JAN.												
05...	10	0	--	--	0	<50	49	1	<10	9	1	--
07...	--	--	--	--	--	100	--	--	10	--	--	--
10...	10	0	--	--	0	50	50	0	<10	8	2	--
MAR.												
08...	<10	0	--	--	0	<50	<49	1	10	5	5	--
JUNE												
19...	<9	1	--	--	0	<50	<50	0	<10	<8	2	--
AUG.												
28...	<9	<1	<1	7	0	<50	<50	0	<10	<8	2	6

DATE	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	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)
JAN.												
05...	<100	100	0	--	.2	.2	.0	--	30	10	20	--
07...	<100	--	--	--	.1	--	--	--	70	--	--	--
10...	<100	100	0	--	.0	.0	.0	--	20	10	10	--
MAR.												
08...	<100	<99	1	--	.2	.2	.0	--	130	110	20	--
JUNE												
19...	100	99	1	--	.0	.0	.0	--	60	50	10	--
AUG.												
28...	<100	<97	3	20	.0	.0	.0	.0	10	0	10	27

1/ Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

SANTA ANA RIVER BASIN--Continued
11051500 SANTA ANA RIVER NEAR MENTONE, CALIF.--Continued

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA-TERIAL (UG/KG)
JAN.										
05...	--	.00	.0	--	.00	--	.00	--	.00	--
10...	1130	.00	.0	--	.00	--	.00	--	.00	--
MAR.										
08...	1010	.00	.0	--	.00	--	.00	--	.00	--
AUG.										
28...	1130	.00	.0	2	.00	.5	.00	1.0	.00	1.2

DATE	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)
JAN.										
05...	.00	.00	--	.00	--	.00	--	.00	--	.00
10...	.00	.00	--	.00	--	.00	--	.00	--	.00
MAR.										
08...	.00	.00	--	.00	--	.00	--	.00	--	.00
AUG.										
28...	.00	.00	.0	.00	.0	.00	.0	.00	.1	.00

DATE	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA-TERIAL (UG/KG)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JAN.										
05...	.00	.00	.00	.0	--	--	--	.00	.00	.00
10...	.00	.00	.00	.0	--	--	--	.00	.00	.00
MAR.										
08...	.00	.00	.00	.0	--	--	--	.00	.00	.00
AUG.										
28...	.00	.00	.00	.0	0	0	0	.00	.00	.00

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CALIF.

LOCATION.--Lat 34°04'05", long 117°17'36", in San Bernardino Grant, San Bernardino County.
DRAINAGE AREA.--532 mi^2 (1,378 km^2).
PERIOD OF RECORD.--Chemical analyses: Water year 1969 (partial-record station), February 1970 to September 1972, water year 1973 to current year (partial-record station).
Specific conductance: October 1967 to September 1972.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED NITRATE (N) (MG/L)	DIS_ SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS_ SOLVED NITRITE (NO2) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN IN BOTTOM MATERI-AL (N) (MG/KG)
JAN.											
05...	1345	200	.58	2.6	.03	.10	.61	.36	7.9	8.3	--
07...	1255	1300	--	--	--	--	--	.25	4.1	4.3	--
10...	1215	45	.28	1.2	.05	.16	.33	36	.00	19	--
JUNE											
19...	1140	32	.51	2.3	.10	.33	.61	19	4.0	23	--
AUG.											
28...	1120	31	.24	1.1	.15	.49	.39	31	3.0	34	600

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)
JAN.										
05...	1.6	--	340	--	10.0	18	--	11	9	2
07...	--	--	244	--	10.0	--	--	5	--	--
10...	7.3	--	943	--	21.0	26	--	5	0	0
JUNE										
19...	3.7	--	919	7.5	29.0	--	--	3	1	2
AUG.										
28...	4.9	190	976	7.7	23.0	42	<.1	4	0	4

SANTA ANA RIVER BASIN--Continued

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CALIF.--Continued

DATE	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)	SUSPENDED COBALT (CO) (UG/L)
JAN.										
05...	--	10	10	0	--	20	--	0	<50	50
07...	--	20	--	--	--	60	--	--	100	--
10...	--	10	9	1	--	0	--	--	--	--
JUNE										
19...	--	<10	<9	1	--	0	--	0	<50	<50
AUG.										
28...	0	<10	<9	<1	<1	20	7	0	<50	<50

DATE	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)
JAN.										
05...	0	--	20	12	8	--	200	200	0	--
07...	--	--	80	--	--	--	100	--	--	--
10...	0	--	20	0	21	--	100	98	2	--
JUNE										
19...	0	--	20	0	30	--	<100	<97	3	--
AUG.										
28...	0	<5	40	18	22	7	<100	<98	2	10

DATE	TIME	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 HEPTACHLOR (UG/L)
JAN.										
05...	--	.00	.1	.00	.01	.03	.17	.03	.00	.00
10...	1220	.00	.0	.00	.00	.00	.12	.02	.00	.00
MAR.										
08...	1120	.00	.1	.00	.01	.02	--	.02	.00	.00
AUG.										
28...	1320	.00	.0	.00	.00	.00	.14	.02	.00	.00

DATE	TOTAL HEPTACHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL PCB (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
JAN.									
05...	.00	.02	.03	.00	.00	.0	.16	.00	.00
10...	.00	.00	.00	.00	.00	.0	.00	.00	.00
MAR.									
08...	.00	.00	.00	.00	.00	.0	.03	.00	.00
AUG.									
28...	.00	.00	.00	.00	.00	.0	.00	.00	.00

SANTA ANA RIVER BASIN--Continued
11077500 SANTIAGO CREEK AT SANTA ANA, CALIF.

LOCATION.--Lat 33°46'13", long 117°53'02", in NW¼SW¼NW¼ sec.1, T.5 S., R.10 W., Orange County.
DRAINAGE AREA.--98.6 mi² (246 km²).
PERIOD OF RECORD.--Sediment records: Water year 1974 (partial-record station).

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
JAN.										
04...	1040	14.0	22	196	12	29	34	52	72	87
04...	1320	--	340	1260	1160	23	31	38	48	57
04...	1500	--	115	160	50	--	--	--	--	--
MAR.										
08...	1200	11.0	80	60	13	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
JAN.									
04...	--	95	--	99	--	100	--	--	--
04...	--	72	--	83	--	92	--	99	100
04...	95	--	98	--	99	--	100	--	--
MAR.									
08...	--	95	--	98	--	100	--	--	--

DATE	TIME	NUMBER OF SAMPLING POINTS	DISCHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM
SEP.							
26...	1200	3	.00	1	1	6	13

DATE	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
SEP.						
26...	20	29	45	73	92	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

SANTA CLARA RIVER BASIN
11113300 SANTA CLARA RIVER NEAR SANTA PAULA, CALIF.1/

LOCATION.--Lat 34°21'14", long 119°01'38", in sec.12, T.3 N., R.21 W., Ventura County.
PERIOD OF RECORD.--Chemical analyses: October 1966 to July 1971, water years 1972 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV.								
20...	1030	95	179	68	134	5.2	290	0
JAN.								
29...	1030	242	137	48	85	3.6	256	0
APR.								
23...	0945	111	151	54	94	3.9	279	0
JULY								
23...	0945	38	162	58	108	4.7	269	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV.									
20...	238	638	63	1.1	4.1	1380	1.88	726	490
JAN.									
29...	210	426	35	.9	2.3	939	1.28	540	330
APR.									
23...	229	478	43	.9	3.6	1110	1.51	598	370
JULY									
23...	221	538	51	1.0	3.2	1160	1.58	640	420

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
NOV.								
20...	28	2.2	1700	7.8	14.0	18	9.8	1050
JAN.								
29...	25	1.6	1230	7.9	11.5	9	10.4	560
APR.								
23...	25	1.7	1320	7.9	15.5	4	10.0	880
JULY								
23...	27	1.9	1380	8.0	22.0	100	8.6	850

1/ Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

VENTURA RIVER BASIN
11115500 MATILIJA CREEK AT MATILIJA HOT SPRINGS, CALIF.[1/]

LOCATION.--Lat 34°28'58", long 119°18'03", in SW¼NW¼SW¼ sec.28, T.5 N., R.23 W., Ventura County.
DRAINAGE AREA.--54.6 mi^2 (141.4 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1972 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV. 19...	0900	4.8	97	31	48	2.4	207	0	170
JAN. 28...	0830	120	99	28	32	1.8	201	0	165
APR. 22...	0845	11	99	27	36	2.0	196	0	161
JULY 22...	0800	4.0	96	28	46	2.0	176	0	144

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV. 19...	248	30	.9	.00	602	.82	7.80	370	200
JAN. 28...	236	9.0	.6	.05	539	.73	175	362	200
APR. 22...	243	13	.7	.11	582	.79	17.3	361	200
JULY 22...	256	26	.8	.00	560	.76	6.05	356	210

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
NOV. 19...	22	1.1	900	7.7	12.0	2	10.1	880
JAN. 28...	16	.7	800	7.8	9.0	3	11.5	300
APR. 22...	18	.8	775	8.1	16.0	4	9.9	530
JULY 22...	22	1.1	775	8.0	22.0	3	8.2	690

1/ Records furnished by California Department of Water Resources.

SANTA MARIA RIVER BASIN
11138100 CUYAMA RIVER BELOW TWITCHELL DAM, CALIF.1/

LOCATION.--Lat 34°56'40", long 120°17'30", in Suey Grant, Santa Barbara County.
DRAINAGE AREA.--1,132 mi² (2,932 km²).
PERIOD OF RECORD.--Chemical analyses: Water years 1967-71, 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV.											
19...	1300	29	--	--	147	60	82	6.2	247	0	203
30...	--	9.2	--	--	--	--	--	--	--	--	--
JAN.											
28...	1320	2.2	--	--	173	81	115	4.9	340	0	279
FEB.											
19...	--	2.0	19	30	180	83	120	4.8	355	0	291
APR.											
25...	1100	130	--	--	--	--	--	--	--	--	--
MAY											
29...	1210	150	--	--	98	42	63	3.1	243	0	199
JULY											
22...	1230	125	--	--	102	47	76	4.3	215	3	181

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (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)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV.											
19...	484	53	.8	.86	--	1133	--	1.54	88.7	614	410
30...	520	56	--	--	--	1140	--	1.55	28.3	654	--
JAN.											
28...	596	72	.8	.29	--	1293	--	1.76	7.68	765	490
FEB.											
19...	590	76	.9	--	.18	--	1250	1.70	6.75	790	500
APR.											
25...	283	44	--	--	--	723	--	.98	254	421	--
MAY											
29...	286	45	.7	.00	--	722	--	.98	292	418	220
JULY											
22...	336	53	.7	.00	--	787	--	1.07	266	448	270

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)
NOV.										
19...	22	1.4	1350	8.2	14.5	3	12.9	2.5	300	--
30...	--	--	--	--	9.0	--	--	--	--	--
JAN.										
28...	24	1.8	1600	7.8	14.0	3	11.2	8.6	260	--
FEB.										
19...	25	1.9	1770	8.0	10.5	--	--	5.7	290	--
APR.										
25...	--	--	--	--	20.0	24	--	--	--	--
MAY										
29...	25	1.3	950	8.2	20.5	4	--	2.5	280	--
JULY										
22...	27	1.6	1000	8.4	25.5	6	12.8	1.4	250	250

1/ Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

SALINAS RIVER BASIN
11143500 SALINAS RIVER NEAR POZO, CALIF.

LOCATION.--Lat 35°17'55", long 120°24'10", in NE¼ sec.19, T.30 S., R.15 E., San Luis Obispo County.
DRAINAGE AREA.--70.3 mi^2 (182.1 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1972 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
DEC. 11...	1230	2.1	1.3	.00	1.3	.02	.16
JAN. 21...	1530	27	.71	.00	.71	.01	.27

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 11...	.18	.03	.05	645	14.5	1.7
JAN. 21...	.28	.03	.01	427	14.0	3.3

DATE	TIME	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 HEPTACHLOR (UG/L)
DEC. 11...	1230	.00	.0	.00	.00	.00	.00	.00	.00	.00
JAN. 21...	1530	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTACHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL PCB (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC. 11...	.00	.00	.00	.00	.00	.0	.00	.00	.00
JAN. 21...	.00	.00	.00	.00	.00	.0	.00	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)
DEC. 11...	1230	6	6	0	<10	10	0	0	0	<10	7	3
JAN. 21...	1530	1	0	1	<10	10	0	0	0	<50	50	0

DATE	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
DEC. 11...	20	18	2	<100	91	9	.0	.0	.0	10	10	0
JAN. 21...	<10	7	3	<100	100	0	.0	.0	.0	30	10	20

SALINAS RIVER BASIN--Continued

11145000 SALINAS RIVER ABOVE PILITAS CREEK, NEAR SANTA MARGARITA, CALIF.

LOCATION.--Lat 35°20'56", long 120°30'42", in SW¼NE¼ sec.6, T.30 S., R.14 E., San Luis Obispo County.
DRAINAGE AREA.--114 mi² (295 km²).
PERIOD OF RECORD.--Chemical analyses: Water years 1972 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
DEC. 11...	1320	12	.03	.00	.03	.03	.39

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO, PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC. 11...	.42	.03	.01	389	9.5	7.4

DATE	TIME	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 HEPTACHLOR (UG/L)
DEC. 11...	1320	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTACHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALATHION (UG/L)	TOTAL METHYL PARATHION (UG/L)	TOTAL PARATHION (UG/L)	TOTAL PCB (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC. 11...	.00	.00	.00	.00	.00	.0	.00	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)
DEC. 11...	1320	6	4	2	<10	9	1	0	0	<50	48	2

DATE	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
DEC. 11...	40	34	6	<100	93	7	.0	.0	.0	10	0	10

SALINAS RIVER BASIN--Continued
11147500 SALINAS RIVER AT PASO ROBLES, CALIF.

LOCATION.--Lat 35°37'43", long 120°41'00", in Paso de Robles Grant, San Luis Obispo County.
DRAINAGE AREA.--390 mi^2 (1,010 km^2).
PERIOD OF RECORD.--Chemical analyses: December 1907 to September 1908, October 1962 to May 1966, water years 1972 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
JAN. 21...	1315	367	.56	.00	.56	.05	.32
MAR. 04...	1230	1310	.23	.00	.23	.15	.95
APR. 15...	1300	113	.50	.00	.50	.12	.14
MAY 10...	1245	28	.24	.00	.24	.04	.26

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
JAN. 21...	.37	.15	.05	520	10.5	5.3
MAR. 04...	1.1	.32	.14	504	10.5	10
APR. 15...	.26	.06	.07	650	22.5	3.2
MAY 10...	.30	.08	.06	800	26.0	3.5

DATE	TIME	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)
JAN. 21...	1315	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00
MAR. 04...	1230	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00
APR. 15...	1300	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY 10...	1245	.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 PARATHION (UG/L)	TOTAL PCB (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)
JAN. 21...	.00	.00	.00	--	.00	.0	--	--	.00	.00	.00
MAR. 04...	.00	.00	.00	--	.00	.0	--	--	.00	.00	.00
APR. 15...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
MAY 10...	.00	.00	.00	.00	.00	.0	0	.00	--	--	--

SALINAS RIVER BASIN--Continued
11147500 SALINAS RIVER AT PASO ROBLES, CALIF.--Continued

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)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
JAN.												
21...	1315	0	0	0	<10	9	1	0	0	<50	50	0
MAR.												
04...	1230	0	0	0	<10	<8	2	0	0	<50	<50	0
APR.												
15...	1300	3	1	2	10	10	0	0	0	<50	<50	0
MAY												
10...	1245	0	0	0	<10	<10	0	20	0	<50	<50	0

DATE	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
JAN.												
21...	<10	5	5	<100	98	2	.0	.0	.0	30	10	20
MAR.												
04...	120	90	30	<100	<94	6	.1	.1	.0	30	0	40
APR.												
15...	10	7	3	<100	<97	3	.0	.0	.0	20	0	20
MAY												
10...	<10	<7	3	<100	<97	3	.0	.0	.0	20	10	10

11150500 SALINAS RIVER NEAR BRADLEY, CALIF.

LOCATION.--Lat 35°55'49", long 120°52'04", in SW¼NW¼ sec.14, T.23 S., R.10 E., Monterey County.
DRAINAGE AREA.--2,535 mi^2 (6,566 km^2).
PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), August 1962 to September 1966, water years 1972 to current year (partial-record station.
Sediment records: Water year 1950 (partial-record station).

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
DEC.									
11...	1500	870	--	--	.04	.01	.05	.03	.47
JAN.									
22...	1115	2650	133	109	.12	.00	.12	.01	.18
MAR.									
04...	1345	1410	--	--	.38	.00	.38	.23	.73
APR.									
15...	1440	153	--	--	.44	.00	.44	.15	.04
MAY									
10...	1430	61	--	--	.10	.03	.13	.04	.24

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC.								
11...	.50	.07	.06	281	--	12.0	--	4.1
JAN.								
22...	.19	.13	.03	290	8.0	8.5	2.1	4.7
MAR.								
04...	.96	.54	.15	401	--	10.0	--	12
APR.								
15...	.19	.14	.12	740	--	21.0	--	3.3
MAY								
10...	.28	.12	.09	880	--	25.0	--	2.8

SALINAS RIVER BASIN--Continued
11150500 SALINAS RIVER NEAR BRADLEY, CALIF.--Continued

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)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)
DEC.												
11...	1500	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00
JAN.												
31...	1215	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00
MAR.												
04...	1345	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00
APR.												
15...	1440	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
DEC.											
11...	.00	.00	.00	--	.00	.0	--	--	.00	.00	.00
JAN.											
31...	.00	.00	.00	--	.00	.0	--	--	.00	.00	.00
MAR.											
04...	.00	.00	.00	--	.00	.0	--	--	.00	.00	.00
APR.											
15...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

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)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
DEC.												
11...	1500	6	6	0	<10	--	--	0	--	<10	--	--
JAN.												
22...	1115	2	2	0	<10	9	1	0	0	<50	50	0
MAR.												
04...	1345	10	0	10	<10	<8	2	0	0	<50	<50	0
APR.												
15...	1440	3	0	3	10	9	1	0	0	<50	<50	0
MAY												
10...	1430	1	1	0	<10	<10	0	30	0	<50	<50	0

DATE	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC.												
11...	10	--	--	<100	--	--	.0	.0	.0	30	30	0
JAN.												
22...	10	2	8	<100	93	7	.0	.0	.0	30	10	20
MAR.												
04...	40	10	30	<100	<91	9	.1	.1	.0	110	80	30
APR.												
15...	20	17	3	<100	<93	7	.0	.0	.0	200	180	20
MAY												
10...	10	7	3	<100	<98	2	.0	.0	.0	30	0	30

SALINAS RIVER BASIN--Continued
11151700 SALINAS RIVER AT SOLEDAD, CALIF.

LOCATION.--Lat 36°24'40", long 121°19'06", on boundary between San Vicente and Los Coches Grants, Monterey County.
DRAINAGE AREA.--3,563 mi^2 (9,228 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1972 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
DEC.									
10...	0945	301	--	--	.15	.00	.15	.08	.37
JAN.									
23...	1000	2570	138	113	.13	.00	.13	.02	.40
MAR.									
04...	1500	1120	--	--	.42	.00	.42	.11	2.2
APR.									
16...	0940	277	282	231	1.6	.00	1.6	.19	.05
MAY									
13...	1115	79	--	--	4.3	.05	4.3	.06	.37

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO, PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
DEC.								
10...	.45	.17	.08	304	--	9.0	--	5.3
JAN.								
23...	.42	.24	.03	346	8.1	8.5	1.8	5.1
MAR.								
04...	2.3	1.8	.15	446	--	12.0	--	27
APR.								
16...	.24	.18	.11	960	8.2	13.5	2.8	3.2
MAY								
13...	.43	--	.05	1410	--	17.0	--	3.1

DATE	TIME	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)
DEC.												
10...	0945	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00
JAN.												
31...	1345	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00
MAR.												
04...	1500	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00
APR.												
16...	0940	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY												
13...	1115	.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 PARATHION (UG/L)	TOTAL PCB (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)
DEC.											
10...	.00	.00	.00	--	.00	.0	--	--	.00	.00	.00
JAN.											
31...	.00	.00	.00	--	.00	.0	--	--	.00	.00	.00
MAR.											
04...	.00	.00	.00	--	.00	.0	--	--	.02	.00	.00
APR.											
16...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
MAY											
13...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00

SALINAS RIVER BASIN--Continued
11151700 SALINAS RIVER AT SOLEDAD, CALIF.--Continued

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)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
DEC. 10...	0945	6	5	1	<10	9	1	0	0	<10	9	1
JAN. 23...	1000	11	11	0	<10	6	4	0	0	<50	50	0
MAR. 04...	1500	14	7	7	<10	<7	3	210	0	<50	<50	0
APR. 16...	0940	5	2	3	10	10	0	0	0	<50	<50	0
MAY 13...	1115	0	0	1	<10	<10	0	0	0	<50	<50	0

DATE	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC. 10...	30	26	4	<100	91	9	.0	.0	.0	10	10	0
JAN. 23...	20	0	29	<100	78	22	.0	.0	.0	--	--	70
MAR. 04...	100	60	40	<100	<91	9	.4	.4	.0	200	160	40
APR. 16...	20	17	3	<100	<98	2	.0	.0	.0	30	20	10
MAY 13...	10	3	7	<100	<90	10	.0	.0	.0	130	110	20

SAN LORENZO RIVER BASIN
11160020 SAN LORENZO RIVER NEAR BOULDER CREEK, CALIF.

LOCATION.--Lat 37°12'24", long 122°08'38", in NE¼SW¼ sec.25, T.8 S., R.3 W., Santa Cruz County.
DRAINAGE AREA.--6.17 mi^2 (15.98 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
AUG. 20...	1330	1.7	--	--	--	--	--	--	--	--
SEP. 17...	1000	1.4	21	40	0	75	14	44	2.6	233

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 NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)
AUG. 20...	230	--	--	--	--	--	--	--	--	--
SEP. 17...	216	74	57	.4	.00	.10	403	.55	.62	250

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)
AUG. 20...	--	--	--	508	7.9	14.0	9.6	--	--	84
SEP. 17...	54	28	1.2	483	8.3	14.0	9.7	.9	1.9	88

SAN LORENZO RIVER BASIN--Continued

11160036 KINGS CREEK NEAR BOULDER CREEK, CALIF.

LOCATION.--Lat 37°09'35", long 122°07'32", in SE¼SW¼ sec.7, T.9 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--7.56 mi^2 (19.58 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
AUG.											
21...	1145	.47	--	--	--	--	--	--	--	--	202
SEP.											
17...	1120	.42	22	80	10	76	16	38	2.6	234	190

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
AUG.										
21...	--	--	--	--	--	--	--	--	--	--
SEP.										
17...	93	34	.4	.05	.08	398	.54	.45	260	64

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG.										
21...	--	--	583	7.5	15.0	9.2	--	--	B36	--
SEP.										
17...	24	1.0	589	8.0	15.0	10.0	1.5	3.7	680	1000

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

11160045 SAN LORENZO RIVER AT BOULDER CREEK, CALIF.

LOCATION.--Lat 37°08'31", long 122°07'53", in NW¼NW¼ sec.19, T.9 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--22.9 mi^2 (59.3 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
AUG.											
23...	1305	2.5	--	--	--	--	--	--	--	--	180
SEP.											
17...	1345	2.1	24	60	10	76	13	22	1.2	262	192

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
AUG.										
23...	--	--	--	--	--	--	--	--	--	--
SEP.										
17...	62	17	.3	.00	.16	345	.47	1.96	240	28

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG.										
23...	--	--	678	8.0	18.0	8.8	--	--	100	--
SEP.										
17...	16	.6	782	8.0	18.0	9.3	1.9	4.2	190	330

SAN LORENZO RIVER BASIN--Continued

11160055 BEAR CREEK NEAR BOULDER CREEK, CALIF.

LOCATION.--Lat 37°09'54", long 122°04'25", in SW¼NW¼ sec.10, T.9 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--10.4 mi² (26.9 km²).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
AUG.											
21...	1500	1.6	--	--	--	--	--	--	--	--	179
SEP.											
17...	1510	.98	20	40	10	69	17	33	2.0	245	202

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
AUG.										
21...	--	--	--	--	--	--	--	--	--	--
SEP.										
17...	90	25	.4	.03	.09	378	.51	1.00	240	41

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG.										
21...	--	--	564	7.4	18.0	9.9	--	--	B8	--
SEP.										
17...	23	.9	564	8.1	18.0	9.0	2.2	3.1	B8	520

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

11160060 BEAR CREEK AT BOULDER CREEK, CALIF.

LOCATION.--Lat 37°07'40", long 122°07'14", in NW¼NE¼ sec.30, T.9 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--16.2 mi² (42.0 km²).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
AUG.											
21...	1830	2.8	--	--	--	--	--	--	--	--	166
SEP.											
18...	1000	1.5	22	50	0	60	14	35	2.4	208	238

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
AUG.										
21...	--	--	--	--	--	--	--	--	--	--
SEP.										
18...	79	27	.4	.00	.09	343	.47	1.39	210	37

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG.										
21...	--	--	520	7.3	16.0	8.8	--	--	62	--
SEP.										
18...	27	1.1	508	8.1	15.0	9.1	1.2	2.6	100	310

SAN LORENZO RIVER BASIN--Continued

11160065 BOULDER CREEK ABOVE JAMISON CREEK, NEAR BOULDER CREEK, CALIF.

LOCATION.--Lat 37°08'56", long 122°09'22", in NE¼SE¼ sec.14, T.9 S., R.3 W., Santa Cruz County.
DRAINAGE AREA.--6.03 mi² (15.62 km²).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station)

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
AUG.											
22...	1040	.19	--	--	--	--	--	--	--	--	72
SEP.											
18...	1130	.18	15	230	40	27	6.0	22	2.5	105	110

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
AUG.										
22...	--	--	--	--	--	--	--	--	--	--
SEP.										
18...	31	19	.2	.09	.06	175	.24	.09	92	6

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG.										
22...	--	--	316	7.4	14.0	8.3	--	--	86	--
SEP.										
18...	33	1.0	249	8.2	19.0	7.1	1.0	1.1	B150	820

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

11160070 BOULDER CREEK AT BOULDER CREEK, CALIF.

LOCATION.--Lat 37°07'36", long 122°07'18", in NW¼NE¼ sec.30, T.9 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--11.3 mi² (29.3 km²).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
AUG.											
22...	1325	2.3	--	--	--	--	--	--	--	--	75
SEP.											
18...	1340	2.0	21	80	0	21	6.2	11	1.8	99	84

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
AUG.										
22...	--	--	--	--	--	--	--	--	--	--
SEP.										
18...	10	10	.1	.13	.07	131	.18	.71	78	0

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG.										
22...	--	--	190	8.0	16.5	9.2	--	--	100	--
SEP.										
18...	23	.5	175	7.6	19.0	10.1	1.0	4.0	56	400

SAN LORENZO RIVER BASIN--Continued

11160150 LOVE CREEK AT BEN LOMOND, CALIF.

LOCATION.--Lat 37°05'20", long 122°05'13", in NE¼SW¼ sec.4, T.10 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--3.04 mi^2 (7.87 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
AUG. 23...	1005	.76	--	--	--	--	--	--	--	--	123
SEP. 19...	0920	.60	34	150	0	45	7.8	21	1.8	158	131

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
AUG. 23...	--	--	--	--	--	--	--	--	--	--
SEP. 19...	34	22	.2	.08	.25	245	.33	.40	140	15

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 23...	--	--	340	8.1	14.5	9.4	--	--	46	--
SEP. 19...	24	.8	341	8.1	15.0	9.2	.8	2.0	B160	870

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

11160200 NEWELL CREEK AT BEN LOMOND, CALIF.

LOCATION.--Lat 37°05'42", long 122°04'23", in SW¼NW¼ sec.3, T.10 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--8.98 mi^2 (23.3 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
AUG. 22...	1545	.56	--	--	--	--	--	--	--	--	116
SEP. 18...	1530	.76	20	80	60	59	10	21	2.3	156	131

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
AUG. 22...	--	--	--	--	--	--	--	--	--	--
SEP. 18...	80	18	.3	.04	.08	288	.39	.59	190	61

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 22...	--	--	409	7.5	15.0	9.1	--	--	38	--
SEP. 18...	19	.7	434	7.7	15.0	9.2	.8	5.0	84	380

SAN LORENZO RIVER BASIN--Continued

11160230 FALL CREEK BELOW BENNETT CREEK, AT FELTON, CALIF.

LOCATION.--Lat 37°03'11", long 122°04'45", in NE¼NE¼ sec.21, T.10 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--4.33 mi^2 (11.21 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
SEP. 19...	1050	3.2	23	40	0	37	5.1	9.2	1.8	136	110

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
SEP. 19...	8.7	10	.1	.00	.04	162	.22	1.40	110	2

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
SEP. 19...	15	.4	235	8.1	14.0	10.7	.6	1.7	B32	410

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

11160250 FALL CREEK AT FELTON, CALIF.

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.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
AUG. 23...	1555	3.1	--	--	--	--	--	--	--	--	71
SEP. 19...	1250	3.3	24	50	0	36	5.1	9.0	2.0	137	113

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
AUG. 23...	--	--	--	--	--	--	--	--	--	--
SEP. 19...	8.6	11	.1	.01	.04	164	.22	1.46	110	0

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 23...	--	--	242	7.6	15.5	9.4	--	--	42	--
SEP. 19...	15	.4	241	8.2	14.0	9.9	.2	1.4	B2	240

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

SAN LORENZO RIVER BASIN--Continued

11160280 ZAYANTE CREEK BELOW MOUNTAIN CHARLIE GULCH, NEAR ZAYANTE, CALIF.

LOCATION.--Lat 37°06'22", long 122°01'17", in SE¼NE¼ sec.36, T.9 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--9.27 mi^2 (24.01 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
NOV.											
07...	1235	2.4	58	17	95	28	--	--	.06	.07	.34
DEC.											
11...	0930	7.7	50	14	93	18	.08	.00	.08	--	--
JAN.											
23...	1320	21	43	12	74	12	.09	.00	.09	--	--
FEB.											
20...	1100	6.4	56	15	110	17	--	--	.01	--	--
MAR.											
20...	1135	13	52	14	97	14	.01	.00	.01	--	--
APR.											
25...	1100	12	53	14	96	15	3.8	.01	3.8	--	--
MAY											
23...	1015	4.6	60	15	98	16	--	--	.03	--	--
JULY											
30...	1050	1.7	62	16	88	24	.02	.00	.02	--	--

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL ORTHO PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
NOV.											
07...	.41	.30	.18	210	529	7.3	12.0	10.6	1.4	270	--
DEC.											
11...	--	--	--	180	444	8.0	8.5	11.6	--	1800	--
JAN.											
23...	--	--	--	160	403	8.2	9.0	11.2	--	--	--
FEB.											
20...	--	--	--	200	493	7.5	6.0	12.7	--	--	--
MAR.											
20...	--	--	--	190	459	7.2	10.5	10.5	--	82	--
APR.											
25...	--	--	--	190	428	8.1	9.0	11.7	--	27	7
MAY											
23...	--	--	--	210	488	8.1	10.5	11.1	--	--	--
JULY											
30...	--	--	--	220	545	7.9	16.0	9.7	--	--	--

11160300 ZAYANTE CREEK AT ZAYANTE, CALIF.

LOCATION.--Lat 37°05'10", long 122°02'45", in SE¼ sec.2, T.10 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--11.1 mi^2 (28.7 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station.
Water temperatures: February 1970 to September 1973.
Sediment records: February 1970 to September 1973.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
NOV.											
06...	1245	16	44	15	68	19	--	--	.63	.06	1.5
DEC.											
11...	1050	13	59	14	100	19	.06	.00	.06	--	--
JAN.											
23...	1240	25	53	12	80	12	.07	.00	.07	--	--
FEB.											
20...	1200	9.3	61	15	100	17	--	--	.03	--	--
MAR.											
20...	1340	16	58	14	95	15	.02	.01	.03	--	--
APR.											
24...	1345	13	55	13	88	13	.22	.01	.23	--	--
MAY											
23...	1115	5.5	66	15	99	17	--	--	.03	--	--
JULY											
30...	1345	1.2	72	17	91	25	.03	.00	.03	--	--

SAN LORENZO RIVER BASIN--Continued
11160300 ZAYANTE CREEK AT ZAYANTE, CALIF.--Continued

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV.											
06...	1.6	.87	.15	170	363	7.2	11.0	10.9	.0	3800	--
DEC.											
11...	--	--	--	210	488	8.2	8.5	--	--	790	--
JAN.											
23...	--	--	--	180	458	8.6	8.0	11.1	--	--	--
FEB.											
20...	--	--	--	210	485	8.0	6.0	11.7	--	--	--
MAR.											
20...	--	--	--	200	466	7.4	12.0	10.8	--	150	--
APR.											
24...	--	--	--	190	445	8.1	10.5	11.6	--	1100	1100
MAY											
23...	--	--	--	230	554	8.3	11.5	12.2	--	--	--
JULY											
30...	--	--	--	250	587	8.4	18.0	9.9	--	--	--

11160320 LOMPICO CREEK AT ZAYANTE, CALIF.

LOCATION.--Lat 37°04'59", long 122°03'01", in NE¼NW¼ sec.11, T.10 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--2.78 mi^2 (7.20 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)
NOV.											
07...	1455	1.0	49	14	41	22	--	--	.19	.04	.19
DEC.											
11...	1200	3.0	26	7.3	21	14	.66	.00	.66	--	--
JAN.											
24...	0955	3.8	26	6.7	19	13	.09	.00	.09	--	--
FEB.											
20...	1325	1.8	38	11	29	18	--	--	.09	--	--
MAR.											
20...	1515	2.6	33	8.7	25	16	.07	.01	.08	--	--
APR.											
25...	1245	2.5	39	9.6	30	16	.07	.01	.08	--	--
MAY											
23...	1225	1.3	51	13	35	17	--	--	.04	--	--
JULY											
30...	1540	.54	63	14	41	20	.13	.00	.13	--	--

DATE	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV.											
07...	.23	.17	.19	180	422	7.2	12.0	9.5	1.8	820	--
DEC.											
11...	--	--	--	95	237	8.0	9.5	--	--	18000	--
JAN.											
24...	--	--	--	93	232	8.2	8.5	11.1	--	--	--
FEB.											
20...	--	--	--	140	315	7.7	8.0	10.0	--	--	--
MAR.											
20...	--	--	--	120	266	7.6	12.0	9.9	--	240	--
APR.											
25...	--	--	--	140	322	8.1	9.5	10.8	--	210	80
MAY											
23...	--	--	--	180	417	7.4	12.5	11.4	--	--	--
JULY											
30...	--	--	--	220	496	8.0	17.0	8.5	--	--	--

SAN LORENZO RIVER BASIN--Continued
11160430 BEAN CREEK NEAR FELTON, CALIF.

LOCATION.--Lat 37°03'14", long 122°02'53", in SE¼ sec.14, T.10 S., R.2 W., Santa Cruz County.
DRAINAGE AREA.--9.18 mi^2 (23.78 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
NOV.									
08...	0940	4.4	47	8.4	61	23	--	--	--
DEC.									
12...	0910	7.6	43	9.4	55	20	.58	.24	.00
JAN.									
23...	1055	26	32	8.8	46	14	--	.34	--
FEB.									
21...	1030	7.3	46	9.7	64	20	--	--	--
MAR.									
21...	1350	12	42	10	66	18	--	.34	--
APR.									
24...	1120	14	41	9.9	61	16	--	.08	--
MAY									
23...	0900	5.9	49	9.4	71	20	--	--	--
JULY									
31...	1435	4.3	44	6.4	51	24	--	.64	--

DATE	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	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)
NOV.									
08...	--	--	.62	.04	.16	.20	--	.38	.39
DEC.									
12...	.00	.58	.24	.04	.28	.32	.90	.35	.32
JAN.									
23...	.00	--	.34	--	--	--	--	--	--
FEB.									
21...	--	--	.48	--	--	--	--	--	--
MAR.									
21...	.00	--	.34	.03	.17	.20	--	.37	.25
APR.									
24...	.00	--	.08	.12	.33	.45	--	.39	.24
MAY									
23...	--	--	.62	--	--	--	--	--	--
JULY									
31...	.00	--	.64	.01	.44	.45	--	.43	--

DATE	HARDNESS (CA,MG) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
NOV.									
08...	150	384	7.4	13.0	10.8	--	1.0	150	--
DEC.									
12...	150	369	7.7	9.5	--	9	--	460	--
JAN.									
23...	120	323	9.2	8.0	11.0	--	--	--	--
FEB.									
21...	150	353	6.8	8.5	10.9	--	--	--	--
MAR.									
21...	150	352	7.9	12.0	10.4	9	1.0	130	--
APR.									
24...	140	343	7.1	11.0	10.3	18	2.0	1500	1200
MAY									
23...	160	533	6.6	12.5	10.1	--	--	--	--
JULY									
31...	140	374	7.5	18.0	9.2	0	.7	--	--

SAN LORENZO RIVER BASIN--Continued
370314122025302 BEAN CREEK SEEP NEAR FELTON, CALIF.

LOCATION.--Lat 37°03'14", long 122°02'53", in SE¼ sec.14, T.10 S., R.2 W., Santa Cruz County.
PERIOD OF RECORD.--Chemical analyses: Water year 1974 (partial-record station).

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	FECAL COLIFORM (COL. PER 100 ML)
DEC. 12...	1000	668	6.1	14.5	0

11160450 ZAYANTE CREEK AT FELTON, CALIF.

LOCATION.--Lat 37°02'54", long 122°03'55", in Zayante Grant, Santa Cruz County.
DRAINAGE AREA.--26.4 mi^2 (68.4 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)
NOV. 06...	1500	42	--	--	--	36	10	--	--	--
DEC. 11...	1300	27	--	--	--	36	8.4	--	--	--
JAN. 24...	1040	60	--	--	--	39	9.4	--	--	--
FEB. 20...	1435	24	--	--	--	42	9.7	--	--	--
MAR. 21...	1120	35	--	--	--	45	11	--	--	--
APR. 25...	1455	32	--	--	--	44	10	--	--	--
MAY 23...	1320	17	--	--	--	46	9.9	--	--	--
JULY 31...	1230	8.6	--	--	--	44	7.9	--	--	--
AUG. 26...	1040	6.1	--	--	--	--	--	--	--	--
SEP. 19...	1410	6.5	27	40	0	43	7.2	24	1.5	133

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
NOV. 06...	--	53	19	--	--	--	.58	.11	1.1	1.2
DEC. 11...	--	48	18	--	.50	.00	.50	--	--	--
JAN. 24...	--	52	14	--	.26	.00	.26	--	--	--
FEB. 20...	--	62	18	--	--	--	.33	--	--	--
MAR. 21...	--	70	17	--	.24	.00	.24	--	--	--
APR. 25...	--	66	16	--	.24	.01	.25	--	--	--
MAY 23...	--	61	18	--	--	--	.38	--	--	--
JULY 31...	--	50	23	--	.44	.00	.44	--	--	--
AUG. 26...	107	--	--	--	--	--	--	--	--	--
SEP. 19...	110	47	23	.2	--	--	.52	--	--	--

SAN LORENZO RIVER BASIN--Continued
11160450 ZAYANTE CREEK AT FELTON, CALIF.--Continued

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORTHO PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM
NOV.									
06...	.84	.29	--	--	--	--	130	--	--
DEC.									
11...	--	--	--	--	--	--	120	--	--
JAN.									
24...	--	--	--	--	--	--	140	--	--
FEB.									
20...	--	--	--	--	--	--	140	--	--
MAR.									
21...	--	--	--	--	--	--	160	--	--
APR.									
25...	--	--	--	--	--	--	150	--	--
MAY									
23...	--	--	--	--	--	--	160	--	--
JULY									
31...	--	--	--	--	--	--	140	--	--
AUG.									
26...	--	--	--	--	--	--	--	--	--
SEP.									
19...	--	--	.27	242	.33	4.25	140	28	27

DATE	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV.									
06...	--	311	7.1	12.0	10.8	4.3	--	7500	--
DEC.									
11...	--	338	8.0	10.0	--	--	--	1700	--
JAN.									
24...	--	341	8.3	8.5	10.9	--	--	--	--
FEB.									
20...	--	334	7.4	9.0	10.9	--	--	--	--
MAR.									
21...	--	356	8.2	11.0	10.1	--	--	320	--
APR.									
25...	--	395	8.3	11.0	11.4	--	--	100	110
MAY									
23...	--	422	8.0	14.0	11.2	--	--	--	--
JULY									
31...	--	372	7.6	18.0	9.1	--	--	--	--
AUG.									
26...	--	362	7.7	15.0	9.6	--	--	130	--
SEP.									
19...	.9	351	7.6	18.0	11.1	1.9	5.3	98	660

11161400 CARBONERA CREEK AT SANTA CRUZ, CALIF.

LOCATION.--Lat 36°59'12", long 122°00'48", in NW¼SW¼ sec.7, T.11 S., R.1 W., Santa Cruz County.
DRAINAGE AREA.--7.42 mi^2 (19.22 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
AUG.											
26...	1555	.70	--	--	--	--	--	--	--	--	66
SEP.											
20...	1300	1.0	33	140	40	22	5.8	24	2.7	80	71

SAN LORENZO RIVER BASIN--Continued
11161400 CARBONERA CREEK AT SANTA CRUZ, CALIF.--Continued

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
AUG. 26...	--	--	--	--	--	--	--	--	--	--
SEP. 20...	34	26	.2	.88	.13	192	.26	.52	79	13

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
AUG. 26...	--	--	286	7.5	17.0	8.9	--	--	B8	--
SEP. 20...	39	1.2	279	7.5	15.0	9.2	1.6	4.0	B160	170

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

11161500 BRANCIFORTE CREEK AT SANTA CRUZ, CALIF.

LOCATION.--Lat 36°59'10", long 122°00'48", in NE¼SW¼ sec.7, T.11 S., R.1 W., Santa Cruz County.
DRAINAGE AREA.--17.3 mi^2 (44.8 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
AUG. 26...	1545	2.3	--	--	--	--	--	--	--	--	143
SEP. 20...	1320	1.8	34	150	30	35	11	30	3.1	132	120

DATE	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA+MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
AUG. 26...	--	--	--	--	--	--	--	--	--	--
SEP. 20...	45	30	.4	.67	.17	257	.35	1.25	130	24

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
AUG. 26...	--	--	458	7.7	16.5	9.0	--	--	44	--
SEP. 20...	32	1.1	375	8.0	16.0	9.0	2.2	2.1	110	480

CALABAZAS CREEK BASIN

11169581 CALABAZAS CREEK AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.

LOCATION.--Lat 37°16'03", long 122°03'31", in SE¼NE¼ sec.3, T.8 S., R.2 W., Santa Clara County.
DRAINAGE AREA.--0.49 mi^2 (1.27 km^2).
PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).

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
NOV.							
16...	1025	13.0	.41	131	.15	--	--
JAN.							
16...	1255	12.0	.89	715	1.7	73	84
16...	1505	12.0	.80	91	.20	--	--
18...	1255	13.0	1.0	156	.42	--	--

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
NOV.							
16...	--	--	--	93	--	--	--
JAN.							
16...	90	96	97	98	98	99	100
16...	--	--	--	97	--	--	--
18...	--	--	--	97	--	--	--

11169586 CALABAZAS CREEK TRIBUTARY NO. 3 AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.

LOCATION.--Lat 37°15'54", long 122°03'19", in NW¼SW¼ sec.2, T.8 S., R.2 W., Santa Clara County.
DRAINAGE AREA.--0.11 mi^2 (0.28 km^2).
PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).

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
NOV.							
16...	1040	13.5	.19	32	.02	--	--
JAN.							
16...	1305	12.0	.38	665	.68	82	94
16...	1520	12.0	.50	92	.12	--	--
18...	1305	13.0	.45	1200	1.5	80	92

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
NOV.						
16...	--	--	--	99	--	--
JAN.						
16...	98	100	--	--	--	--
16...	--	--	--	97	--	--
18...	98	99	99	99	99	100

CALABAZAS CREEK BASIN--Continued

11169588 CALABAZAS CREEK TRIBUTARY NO. 4 AT MT. EDEN ROAD, SARATOGA, CALIF.

LOCATION.--Lat 37°15'54", long 122°03'18", in NW¼SW¼ sec.2, T.8 S., R.2 W., Santa Clara County.
DRAINAGE AREA.--0.28 mi² (0.73 km²).
PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).

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.								
16...	1045	14.0	.50	4990	6.7	8	10	12

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
NOV.								
16...	14	15	17	20	43	83	98	100

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
JAN.										
16...	1310	12.0	.86	28300	66	3	4	4	5	6
16...	1530	12.0	2.4	24800	161	17	20	24	29	33
18...	1335	13.0	1.0	19000	51	19	21	25	30	35

DATE	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	TOTAL SED. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 4.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 8.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 16.0 MM
JAN.									
16...	6	8	11	19	32	60	100	--	--
16...	36	39	44	54	68	79	89	94	100
18...	40	46	58	78	94	95	97	99	100

BUENA VISTA LAKE BASIN
11186000 KERN RIVER NEAR KERNVILLE, CALIF.1/

LOCATION.--Lat 35°56'43", long 118°28'36", in SW¼ sec.12, T.23 S., R.32 E (unsurveyed), Tulare County.
DRAINAGE AREA.--846 mi² (2,191 km²).
PERIOD OF RECORD.--Chemical analyses: October 1955 to July 1963, water years 1964-69, 1972 to current year (partial-record station).
Water temperatures: June 1961 to September 1963, October 1964 to September 1965.

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
MAR., 1974												
21...	0800	279	9.7	7.8	47	0	39	1.4	.00	--	--	--
APR.												
10...	1210	466	--	--	--	--	--	--	.02	.00	.22	.02

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)
MAR., 1974											
21...	--	74	.10	55.7	31	0	97	7.0	11.0	9.6	0
APR.											
10...	.01	--	--	--	--	--	60	7.4	6.5	12.2	--

TULARE LAKE BASIN
11222700 KINGS RIVER AT PEOPLES WEIR, NEAR KINGSBURG, CALIF.1/

LOCATION.--Lat 36°29'06", long 119°32'22", in NW¼NE¼ sec.1, T.17 S., R.22 E., Kings County.
PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1967, water years 1958 to current year (partial-record station).

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED SODIUM (NA) (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)	TOTAL NITRATE (N) (MG/L)
MAR.										
14...	1350	665	7.3	4.2	33	0	27	--	2.8	.25
JULY										
16...	1030	1785	2.5	2.0	16	0	13	.0	1.9	.14

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)
MAR.										
14...	60	.08	108	28	1	76	7.2	13.0	10.9	0
JULY										
16...	26	.04	125	10	0	30	7.2	20.0	10.1	0

1/ Records furnished by California Department of Water Resources.

GOOSE LAKE BASIN
11337705 GOOSE LAKE AT WILLOW RANCH, CALIF.

LOCATION.--Lat 41°54'14", long 120°21'55", in NW¼NW¼ sec.21, T.47 N., R.20 E., Modoc County.
PERIOD OF RECORD.--Chemical analyses: Water years 1969 to current year (partial-record station).

DATE	TIME	RESERVOIR STORAGE (AC-FT)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
29...	1600	745700	60	--	14	4.9	300	43	--	--
MAY										
13...	1415	1030000	51	20	12	4.5	340	29	621	56

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.										
29...	--	91	160	.9	.11	.00	.04	.11	.33	1.5
MAY										
13...	603	68	120	.8	--	--	--	.22	--	--

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO
OCT.									
29...	1.8	1.8	1.9	1.8	1310	1.78	55	86	18
MAY									
13...	--	--	--	--	1030	1.40	48	90	21

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED BORON (B) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.									
29...	2020	--	8.0	4000	--	17	4	28	30
MAY									
13...	1600	9.0	14.5	3000	.2	--	--	--	--

GOOSE LAKE BASIN--Continued
11337715 GOOSE LAKE NEAR EVERLY RANCH, NEAR WILLOW RANCH, CALIF.

LOCATION.--Lat 41°52'17", long 120°29'49", in NW¼SE¼ sec.32, T.47 N., R.19 E., Modoc County.
PERIOD OF RECORD.--Chemical analyses: Water years 1969 to current year (partial-record station).

DATE	TIME	RESERVOIR STORAGE (AC-FT)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
29...	1325	745700	57	--	14	5.1	460	43	--	--
MAY										
13...	1305	1030000	50	50	12	4.7	320	28	595	57

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)
OCT.									
29...	--	88	150	.9	.18	.01	1.6	.19	.24
MAY									
13...	583	59	100	.8	--	--	--	.29	--

GOOSE LAKE BASIN--Continued

11337715 GOOSE LAKE NEAR EVERLY RANCH, NEAR WILLOW RANCH, CALIF.--Continued

DATE	TOTAL ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	PERCENT SODIUM
OCT.									
29...	1.9	2.1	3.7	1.9	1.7	1330	1.81	56	90
MAY									
13...	--	--	--	--	--	1000	1.36	49	89

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED BORON (B) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.									
29...	27	2070	--	7.5	3800	--	17	33	30
MAY									
13...	20	1530	9.0	14.5	2800	.3	--	--	--

GOOSE LAKE BASIN--Continued

11337720 GOOSE LAKE AT WEST SHORE LOG LANDING, NEAR WILLOW RANCH, CALIF.

LOCATION.--Lat 41°57'51", long 120°29'37", in NE¼NE¼ sec.32, T.48 N., R.13 E., Modoc County.
PERIOD OF RECORD.--Chemical analyses: Water years 1969 to current year (partial-record station).

DATE	TIME	RESERVOIR STORAGE (AC-FT)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
29...	1415	745700	58	--	14	4.8	310	42	--	--
MAY										
13...	1215	1030000	48	40	12	4.5	300	26	561	46

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
OCT.										
29...	--	93	150	.9	.14	.00	.18	.14	.22	1.7
MAY										
13...	537	61	100	.8	--	--	--	.16	--	--

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO
OCT.									
29...	1.9	2.1	1.9	1.7	1310	1.78	55	86	18
MAY									
13...	--	--	--	--	938	1.28	48	89	19

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED BORON (B) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED MOLYBDENUM (MO) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED VANADIUM (V) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT.									
29...	2070	--	9.0	4000	--	17	3	28	20
MAY									
13...	1410	8.9	15.0	2700	.1	--	--	--	--

SACRAMENTO RIVER BASIN
11345500 SOUTH FORK PIT RIVER NEAR LIKELY, CALIF.1/

LOCATION.--Lat 41°13'51", long 120°26'10", in NE¼SE¼ sec.11, T.39 N., R.13 E., Modoc County.
DRAINAGE AREA.--247 mi² (640 km²).
PERIOD OF RECORD.--Chemical analyses: October 1956 to September 1968, water years 1969 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SODIUM (NA) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT., 1973								
16...	0740	24	7.0	73	0	60	.0	44
JUNE, 1974								
04...	0845	272	--	--	--	--	--	--

DATE	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
OCT., 1973								
16...	0	.5	118	7.5	7.0	15	12.5	0
JUNE, 1974								
04...	--	--	77	7.8	10.0	7	9.5	--

SACRAMENTO RIVER BASIN--Continued
11365000 PIT RIVER NEAR MONTGOMERY CREEK, CALIF.1/

LOCATION.--Lat 40°50'36", long 122°00'58", in NW¼SE¼ sec.31, T.35 N., R.1 W., Shasta County.
DRAINAGE AREA.--4,951 mi² (12,823 km²), excluding Goose Lake basin.
PERIOD OF RECORD.--Chemical analyses: Water years 1951, 1953, 1955-58 (partial-record station), October 1958 to September 1968, water years 1969 to current year (partial-record station).
Water temperatures: June to September 1951, October 1953 to September 1957, October 1958 to August 1959.

DATE	TIME	DISCHARGE (CFS)	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV., 1973												
14...	1100	--	11000	--	--	10	4.1	4.9	1.0	56	0	46
MAR., 1974												
14...	1000	--	13300	--	--	--	--	--	--	--	--	--
MAY												
08...	1050	7770	--	280	10	--	--	7.5	--	66	0	54
JULY												
17...	0905	5040	--	--	--	--	--	--	--	--	--	--
SEP.												
12...	1000	--	3070	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
NOV., 1973												
14...	3.4	1.0	.14	--	--	--	72	.10	2140	42	0	20
MAR., 1974												
14...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	1.4	.03	.10	.06	.03	--	--	--	44	0	--
JULY												
17...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
12...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV., 1973											
14...	.3	100	7.4	9.5	65	13.9	0	--	--	--	--
MAR., 1974											
14...	--	118	8.3	7.0	35	14.0	--	--	--	--	--
MAY											
08...	.5	118	8.1	13.0	4	11.0	0	0	0	0	10
JULY											
17...	--	130	8.0	16.0	2	11.4	--	--	--	--	--
SEP.											
12...	--	136	7.6	15.5	2	10.0	--	--	--	--	--

1/ Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

SACRAMENTO RIVER BASIN--Continued
11368000 MCCLOUD RIVER ABOVE SHASTA LAKE, CALIF.1/

LOCATION.--Lat 40°57'30", long 122°13'07" (unsurveyed), T.36 N., R.3 W., Shasta County.
DRAINAGE AREA.--604 mi² (1,564 km²).
PERIOD OF RECORD.--Chemical analyses: Water years 1951, 1953-58 (partial-record station), October 1958 to September 1970, water years 1971 to current year (partial-record station).
Water temperatures: June to September 1951, October 1953 to September 1959.

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
NOV., 1973								
14...	1300	5480	9.6	2.2	2.2	1.0	41	0
JAN., 1974								
14...	0810	2050	--	--	--	--	--	--
MAR.								
14...	1210	2520	--	--	--	--	--	--
SEP.								
12...	1225	336	--	--	--	--	--	--

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV., 1973									
14...	34	2.0	.5	.02	48	.07	710	33	0
JAN., 1974									
14...	--	--	--	--	--	--	--	--	--
MAR.									
14...	--	--	--	--	--	--	--	--	--
SEP.									
12...	--	--	--	--	--	--	--	--	--

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)
NOV., 1973								
14...	12	.2	70	7.8	9.0	15	14.0	0
JAN., 1974								
14...	--	--	83	7.1	7.0	3	12.4	--
MAR.								
14...	--	--	80	7.6	8.0	7	12.7	--
SEP.								
12...	--	--	105	7.6	14.0	1	10.5	--

SACRAMENTO RIVER BASIN--Continued
11377200 SACRAMENTO RIVER AT BEND BRIDGE, NEAR RED BLUFF, CALIF.1/

LOCATION.--Lat 40°15'51", long 122°13'19", in NW¼SE¼ sec.20, T.28 N., R.3 W., Tehama County.
DRAINAGE AREA.--8,900 mi² (23,051 km²), at gaging station.
PERIOD OF RECORD.--Chemical analyses: May 1955 to September 1968, water years 1969 to current year (partial-record station). Reported as "Sacramento River at Bend" for period May 1955 to September 1973.
Water temperatures: May 1955 to September 1970.
Sediment records: October 1957 to September 1970.
REMARKS.--Discharge given for Sacramento River above Bend Bridge, near Red Bluff (sta 11377100).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
NOV., 1973												
12...	0815	41100	--	--	8.9	3.6	4.8	1.2	46	0	38	4.4
JAN., 1974												
03...	1240	32600	--	--	--	--	--	--	--	--	--	--
MAR.												
18...	0850	34800	--	--	9.2	4.1	5.6	1.0	50	0	41	6.1
MAY												
21...	0800	14200	820	10	--	--	4.9	--	54	0	44	--
JULY												
16...	0800	12900	--	--	--	--	--	--	--	--	--	--
SEP.												
23...	0740	8670	--	--	--	--	--	--	--	--	--	--

1/ Records furnished by California Department of Water Resources.

SACRAMENTO RIVER BASIN--Continued
11377200 SACRAMENTO RIVER AT BEND BRIDGE, NEAR RED BLUFF, CALIF.--Continued

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM
NOV., 1973											
12...	1.9	.21	--	--	.03	72	.10	7990	37	0	21
JAN., 1974											
03...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
18...	2.0	.09	--	--	.01	75	.10	7050	40	0	23
MAY											
21...	1.9	.07	.10	.03	.01	--	--	--	42	0	--
JULY											
16...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
23...	--	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV., 1973											
12...	.3	95	8.3	12.0	90	11.0	0	--	--	--	--
JAN., 1974											
03...	--	115	7.2	8.0	9	12.6	--	--	--	--	--
MAR.											
18...	.4	109	8.8	9.0	25	13.0	100	--	--	--	--
MAY											
21...	.3	104	7.4	10.5	15	10.3	100	0	10	0	30
JULY											
16...	--	100	7.6	12.0	10	9.6	--	--	--	--	--
SEP.											
23...	--	102	7.2	12.5	6	10.0	--	--	--	--	--

SACRAMENTO RIVER BASIN--Continued
11381620 MILL CREEK AT MOUTH, NEAR LOS MOLINOS, CALIF.[1/]

LOCATION.--Lat 40°02'34", long 122°05'57", T.25 N., R.2 W., in Rio de Los Molinos Grant, Tehama County.
DRAINAGE AREA.--131 mi^2 (339 km^2), at gaging station.
PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), October 1953 to September 1970, water year 1971 (partial-record station), October 1971 to September 1973, water year 1974 (partial-record station).
REMARKS.--Discharge given for Mill Creek near Los Molinos (sta 11381500), 5.5 mi (8.8 km) upstream from mouth.

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
NOV., 1973												
19...	1315	900	--	--	7.3	2.9	6.2	1.0	37	0	30	7.7
JAN., 1974												
03...	1145	467	--	--	--	--	--	--	--	--	--	--
MAR.												
12...	1240	860	--	--	--	--	--	--	--	--	--	--
MAY												
06...	1200	693	510	10	--	--	6.8	--	32	0	26	--
JULY												
17...	1300	296	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM
NOV., 1973											
19...	3.3	.09	--	--	--	98	.13	238	30	0	30
JAN., 1974											
03...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
12...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	5.1	.01	.10	.03	.02	--	--	--	26	0	--
JULY											
17...	--	--	--	--	--	--	--	--	--	--	--

1/ Records furnished by California Department of Water Resources.

SACRAMENTO RIVER BASIN--Continued
11381620 MILL CREEK AT MOUTH, NEAR LOS MOLINOS, CALIF.--Continued

DATE	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV., 1973											
19...	.5	89	7.2	7.0	6	14.5	100	--	--	--	--
JAN., 1974											
03...	--	109	7.3	4.0	2	14.7	--	--	--	--	--
MAR.											
12...	--	96	7.4	9.0	3	12.5	--	--	--	--	--
MAY											
06...	.6	89	7.4	15.0	5	10.8	100	0	0	0	10
JULY											
17...	--	124	7.8	21.0	2	9.1	--	--	--	--	--

SACRAMENTO RIVER BASIN--Continued
11383800 SACRAMENTO RIVER NEAR HAMILTON CITY, CALIF.1/

LOCATION.--Lat 39°45'06", long 121°59'40", in NE¼NE¼ sec.20, R.1 W., T.22 N., Butte County.
PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1968, water years 1969 to current year (partial-record station).

DATE	TIME	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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)
NOV.									
13...	0730	8.3	4.2	4.6	1.0	46	0	38	5.1
JAN.									
16...	1340	--	--	3.5	--	46	0	38	--
MAR.									
12...	0840	--	--	--	--	--	--	--	--
MAY									
06...	0805	--	--	5.8	--	65	0	53	--
JULY									
17...	0850	--	--	--	--	--	--	--	--
SEP.									
16...	0815	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (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 SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)
NOV.									
13...	3.4	.34	--	--	--	63	.09	8570	38
JAN.									
16...	4.9	--	--	--	--	--	--	--	38
MAR.									
12...	--	--	--	--	--	--	--	--	--
MAY									
06...	2.4	.29	.10	.04	.01	--	--	--	55
JULY									
17...	--	--	--	--	--	--	--	--	--
SEP.									
16...	--	--	--	--	--	--	--	--	--

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)
NOV.									
13...	0	20	.3	94	7.3	11.0	120	12.0	100
JAN.									
16...	0	--	.2	87	7.4	10.0	850	11.0	200
MAR.									
12...	--	--	--	120	7.2	9.0	40	11.8	--
MAY									
06...	2	--	.3	133	7.3	16.0	15	10.2	0
JULY									
17...	--	--	--	107	7.3	15.0	10	10.0	--
SEP.									
16...	--	--	--	104	7.4	14.0	7	10.4	--

1/ Records furnished by California Department of Water Resources.

SACRAMENTO RIVER BASIN--Continued
11384000 BIG CHICO CREEK NEAR CHICO, CALIF.1/

LOCATION.--Lat 39°46'35", long 121°45'10", in Arroyo Chico Grant, Butte County.
DRAINAGE AREA.--72.4 mi^2 (187.6 km^2).
PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), October 1953 to September 1968, water year 1969 (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
NOV., 1973											
13...	0820	--	--	--	6.2	2.8	3.5	1.0	36	0	30
13...	1030	1030	--	--	--	--	--	--	--	--	--
JAN., 1974											
16...	1220	3520	--	--	--	--	2.5	--	33	0	27
MAR.											
12...	0930	1340	--	--	--	--	--	--	--	--	--
MAY											
06...	0850	109	90	0	--	--	6.8	--	71	0	58
JULY											
17...	0955	70	--	--	--	--	--	--	--	--	--
SEP.											
16...	1010	30	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
NOV., 1973											
13...	2.1	3.3	.02	--	--	--	59	.08	27	0	21
13...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1974											
16...	--	.4	--	--	--	--	--	--	22	0	--
MAR.											
12...	--	--	--	--	--	--	--	--	--	--	--
MAY											
06...	--	3.9	.02	.00	.02	.01	--	--	54	0	--
JULY											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
16...	--	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV., 1973											
13...	.3	63	7.3	10.0	5	13.6	0	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
JAN., 1974											
16...	.2	58	7.1	10.0	30	13.5	0	--	--	--	--
MAR.											
12...	--	68	7.3	8.5	3	13.2	--	--	--	--	--
MAY											
06...	.4	--	7.6	14.5	1	11.0	0	0	0	0	20
JULY											
17...	--	190	8.0	19.5	1	9.3	--	--	--	--	--
SEP.											
16...	--	200	7.8	18.0	0	10.0	--	--	--	--	--

1/ Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

SACRAMENTO RIVER BASIN--Continued
11421500 YUBA RIVER AT MARYSVILLE, CALIF.[1/]

LOCATION.--Lat 39°08'40", long 121°34'35", in New Helvetia Grant, Yuba County.
DRAINAGE AREA.--1,339 mi^2 (3,468 km^2), at gaging station.
PERIOD OF RECORD.--Chemical analyses: Water years 1951-52 (partial-record station), October 1953 to September 1963, water years 1964-66, 1973 to current year (partial-record station). Published as Yuba River near Marysville (sta 11421000) in 1951-65.
Water temperatures: October 1963 to September 1970.
REMARKS.--Discharge given for Yuba River near Marysville (sta 11421000).

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	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 SOLIDS (RESI-DUE AT 180 C) (MG/L)
JUNE, 1974										
07...	1015	4670	4.8	--	1.9	24	0	20	2.6	43
SEP.										
04...	1430	340	9.2	3.4	2.5	42	0	34	1.0	72

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
JUNE, 1974										
07...	.06	542	20	0	--	49	7.2	15.5	3	10.1
SEP.										
04...	.10	66.1	37	3	.2	82	7.3	21.5	1	8.3

1/ Records furnished by California Department of Water Resources.

SACRAMENTO RIVER BASIN--Continued
11451000 CACHE CREEK NEAR LOWER LAKE, CALIF.1/

LOCATION.--Lat 38°55'27", long 122°33'53", in sec.6, T.12 N., R.6 W., Lake County.
DRAINAGE AREA.--528 mi² (1,368 km²).
PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1966, water years 1967, 1973 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT.												
04...	0910	94	--	--	--	--	--	--	--	--	--	--
DEC.												
13...	1050	510	--	--	--	--	--	--	--	--	--	--
JAN.												
24...	0940	3110	--	--	--	--	--	--	--	--	--	--
FEB.												
07...	1000	1020	--	--	22	15	11	1.8	150	0	123	8.4
APR.												
04...	0750	3500	1400	30	--	--	9.2	--	132	0	108	--
MAY												
16...	1200	394	--	--	--	--	--	--	--	--	--	--
JUNE												
13...	0850	574	--	--	--	--	--	--	--	--	--	--
JULY												
11...	1130	346	--	--	--	--	--	--	--	--	--	--
AUG.												
08...	0930	490	--	--	--	--	9.6	--	131	0	107	--
SEP.												
06...	1205	251	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO
OCT.											
04...	--	.01	1.0	.05	.01	--	--	--	--	--	--
DEC.											
13...	--	.15	.60	.06	.01	--	--	--	--	--	--
JAN.											
24...	--	.28	.20	.04	.01	--	--	--	--	--	--
FEB.											
07...	5.2	.30	.60	.05	.01	149	.20	119	0	17	.4
APR.											
04...	6.1	.26	.60	.16	.01	--	--	107	0	--	.4
MAY											
16...	--	.02	1.1	.03	.00	--	--	--	--	--	--
JUNE											
13...	--	.04	1.1	.07	.02	--	--	--	--	--	--
JULY											
11...	--	.11	1.6	.10	.02	--	--	--	--	--	--
AUG.											
08...	5.8	.01	.90	.09	.02	--	--	104	0	--	.4
SEP.											
06...	--	.00	.90	.09	.00	--	--	--	--	--	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.										
04...	288	7.6	17.0	6	10.6	--	--	--	--	--
DEC.										
13...	242	7.4	9.0	20	12.3	--	--	--	--	--
JAN.										
24...	272	7.3	8.0	10	12.3	--	--	--	--	--
FEB.										
07...	270	7.3	7.5	7	12.7	1000	--	--	--	--
APR.										
04...	240	7.4	11.0	10	11.4	800	10	0	0	0
MAY										
16...	245	7.8	17.0	10	9.9	--	--	--	--	--
JUNE										
13...	234	7.4	24.0	--	7.6	--	--	--	--	--
JULY										
11...	243	7.4	21.5	8	7.7	--	--	--	--	--
AUG.										
08...	228	8.0	27.0	4	--	700	--	--	--	--
SEP.										
06...	249	7.6	25.0	5	7.8	--	--	--	--	--

1/ Records furnished by California Department of Water Resources.

SACRAMENTO RIVER BASIN--Continued
YOLO BYPASS AT LIBERTY ISLAND (WEST), CALIF.

LOCATION.--Lat 38°16'27", long 121°41'36" (unsurveyed), T.5 N., R.3 E., Solano County.
PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).
Turbidity: Water years 1973 to current year (partial-record station).

DATE	TIME	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	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
DEC.								
05...	1055	9.5	74	95	95	96	97	99
JAN.								
19...	0935	11.5	835	60	77	88	95	95
24...	0915	7.5	259	65	86	95	99	99
28...	1110	--	53	80	92	93	93	93

DATE	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. FALL DIAM. % FINER THAN .250 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.								
05...	--	99	--	99	--	100	--	--
JAN.								
19...	96	--	98	--	100	--	--	--
24...	--	99	--	99	--	99	100	--
28...	--	93	--	94	--	95	96	100

DATE	TIME	SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
NOV.			
19...	1005	53	75
26...	0920	37	40
DEC.			
05...	1055	74	65
JAN.			
19...	0935	835	380
24...	0915	259	150
28...	1110	53	45
FEB.			
04...	1210	48	30
08...	1320	64	45
APR.			
05...	0955	225	200
08...	1010	93	85
10...	0950	129	65

SACRAMENTO RIVER BASIN--Continued
YOLO BYPASS AT LIBERTY ISLAND (EAST), CALIF.

LOCATION.--Lat 38°15'07", long 121°40'17" (unsurveyed), T.5 N., R.3 E., Solano County.
PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).
Turbidity: Water years 1973 to current year (partial-record station).

DATE	TIME	TEMPERATURE (DEG C)	SUSPENDED SEDIMENT (MG/L)	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. FALL DIAM. % FINER THAN .062 MM
DEC.									
05...	1200	9.5	130	63	77	84	86	86	--
JAN.									
19...	0855	11.0	568	48	65	78	90	91	94
24...	0950	9.0	419	61	79	91	95	97	--
28...	1310	--	134	57	79	90	96	96	--

SACRAMENTO RIVER BASIN--Continued
YOLO BYPASS AT LIBERTY ISLAND (EAST), CALIF.--Continued

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC.								
05...	87	--	89	--	99	--	100	--
JAN.								
19...	--	96	--	99	--	100	--	--
24...	98	--	98	--	99	--	99	100
28...	97	--	97	--	98	--	99	100

DATE	TIME	SUS-PENDED SEDI-MENT (MG/L)	TUR-BID-ITY (JTU)
NOV.			
19...	0910	149	80
26...	1000	57	45
DEC.			
05...	1200	130	75
JAN.			
19...	0855	568	250
24...	0950	419	250
28...	1310	134	95
FEB.			
04...	1305	94	65
08...	1135	181	100
APR.			
05...	1035	439	220
08...	0935	192	110
10...	1040	133	85

SACRAMENTO RIVER BASIN--Continued
YOLO BYPASS AT LIBERTY ISLAND (COMBINED), CALIF.

LOCATION.--Lat 38°15'08", long 121°40'17' (unsurveyed), T.5 N., R.3 E., Solano County.
PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).

DATE	TIME	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	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.							
19...	0930	10.5	139	61	77	87	95
26...	0935	9.0	54	75	87	93	94
FEB.							
04...	1235	8.0	63	66	84	91	96
08...	1240	8.0	111	71	89	95	97
APR.							
05...	1020	12.0	318	53	70	83	90
08...	0950	13.5	118	62	79	90	96
10...	0955	12.5	104	53	75	89	96

DATE	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	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.							
19...	97	98	99	99	100	--	--
26...	95	95	97	99	100	--	--
FEB.							
04...	97	99	99	99	100	--	--
08...	98	98	98	99	99	99	100
APR.							
05...	96	97	98	99	100	--	--
08...	98	99	99	100	--	--	--
10...	98	98	99	99	100	--	--

SACRAMENTO RIVER BASIN--Continued

11455125 RECLAMATION DISTRICT NO. 2068 DRAIN Z AT HACKMAN ROAD AND ROAD 105, NEAR CLARKSBURG, CALIF.

LOCATION.--Lat 38°27'08", long 121°40'28", in NE¼SE¼ sec.18, T.7 N., R.3 E., Yolo County.
PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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 KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
JUNE 24...	1300	5.3	1.4	.41	1.8	1.8	2.1	3.9	.71	662	410
AUG. 22...	0900	--	.93	.06	--	.99	1.4	--	.40	502	310

DATE	TIME	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 22...	0900	40	7.2	B2600	B21200

DATE	TIME	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
AUG. 22...	0900	4000	60	90	90	0	5	0	5	<10	<10

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
AUG. 22...	0	0	0	0	<50	<50	0	<10	<6	4	100

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 22...	98	2	.0	.0	.2	2	0	2	760	740	20

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

SACRAMENTO RIVER BASIN--Continued

11455135 RECLAMATION DISTRICT NO. 2068 DRAIN X AT MIDWAY ROAD, NEAR CLARKSBURG, CALIF.

LOCATION.--Lat 38°24'57", long 121°40'15", in NW¼NW¼ sec.32, T.7 N., R.3 E., Yolo County.
PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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 KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
JUNE 24...	1325	9.0	1.2	.24	1.3	1.4	1.6	2.9	.37	652	400
AUG. 22...	0930	--	1.7	.08	--	1.8	1.8	--	.65	532	330

DATE	TIME	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 22...	0930	2	7.4	B3200	B19400

DATE	TIME	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
AUG. 22...	0930	2000	90	80	60	20	4	0	5	<10	<10

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
AUG. 22...	0	0	0	0	<50	<50	0	<10	<3	7	<100

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 22...	<97	3	.0	.0	.0	2	0	2	50	30	20

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

SACRAMENTO RIVER BASIN--Continued
11455145 RECLAMATION DISTRICT NO. 2068W PUMP NO. 5 SPILL NEAR COURTLAND, CALIF.

LOCATION.--Lat 38°19'44", long 121°41'22", in SE¼SE¼ sec.30, T.6 N., R.3 E., Yolo County.
PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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 KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
JUNE 24...	1345	30	1.1	.22	1.2	1.3	2.1	3.3	.85	526	350
AUG. 22...	1000	--	.52	.04	--	.56	1.9	--	.93	452	260

DATE	TIME	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 22...	1000	30	6.9	500	660

DATE	TIME	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
AUG. 22...	1000	3800	100	170	150	20	4	0	4	<10	<10

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
AUG. 22...	0	0	0	0	<50	<50	0	<10	<2	8	<100

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 22...	<97	3	.0	.0	.0	1	0	2	30	30	0

SACRAMENTO RIVER BASIN--Continued
11455235 ULATIS CREEK AT LEWIS ROAD, NEAR ELMIRA, CALIF.

LOCATION.--Lat 38°22'25", long 121°53'44", in NW¼NW¼ sec.17, T.6 N., R.1 E., Solano County.
PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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 KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
JUNE 24...	1525	10	.35	.16	.38	.51	.90	1.3	.10	355	170
AUG. 22...	1130	--	.15	.00	--	.15	.56	--	.10	340	160

DATE	TIME	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 22...	1130	15	3.3	B2600	5800

DATE	TIME	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
AUG. 22...	1130	1800	20	40	40	0	1	0	2	<10	<10

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
AUG. 22...	0	0	0	0	<50	<50	0	<10	<6	4	<100

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 22...	<98	2	.0	.0	.0	2	1	1	30	30	0

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

SACRAMENTO RIVER BASIN--Continued
11455255 SWEENEY CREEK AT WEBER ROAD, NEAR DIXON, CALIF.

LOCATION.--Lat 38°24'08", long 121°51'39", in SE¼SE¼ sec.33, T.7 N., R.1 E., Solano County.
PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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 KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
JUNE 24...	1500	60	4.0	.67	5.5	4.7	1.5	7.0	.24	404	160
AUG. 22...	1205	--	.52	.01	--	.53	.67	--	.13	354	170

DATE	TIME	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 22...	1205	10	7.0	B300	B3380

DATE	TIME	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
AUG. 22...	1205	1300	30	50	50	0	3	1	2	<10	<10

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
AUG. 22...	0	0	0	0	<50	<50	0	<10	<6	4	<100

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 22...	<98	2	.0	.0	.0	1	0	1	10	10	0

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

SACRAMENTO RIVER BASIN--Continued

11455257 GIBSON CANYON CREEK AT SOUTHERN PACIFIC RAILROAD, NEAR ELMIRA, CALIF.

LOCATION.--Lat 38°23'28", long 121°52'21", in SE¼SW¼ sec.4, T.6 N., R.1 E., Solano County.
PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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 KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
JUNE 24...	1515	8.0	.37	.14	.49	.51	.64	1.1	.20	348	170
AUG. 22...	1150	--	.14	.01	--	.15	1.4	--	.31	385	140

DATE	TIME	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 22...	1150	3	11	B6000	B6000

DATE	TIME	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
AUG. 22...	1150	520	40	210	210	0	4	0	4	<10	<9

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
AUG. 22...	<1	0	0	0	<50	<50	0	<10	<5	5	<100

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 22...	<97	3	.0	.0	.0	1	1	0	70	30	40

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

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

SACRAMENTO RIVER BASIN--Continued
11455261 ULATIS CREEK AT BROWNS ROAD, NEAR ELMIRA, CALIF.

LOCATION.--Lat 38°18'24", long 121°47'37", in NW¼SE¼ sec.6, T.5 N., R.2 E., Solano County.
PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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 KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
JUNE 24...	1435	30	2.0	.39	2.3	2.4	2.0	4.3	.39	499	210
AUG. 22...	1100	--	.75	.00	--	.75	1.4	--	.41	487	190

DATE	TIME	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 22...	1100	7	7.0	B2500	>1200

DATE	TIME	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
AUG. 22...	1100	640	40	140	140	0	4	0	4	<10	<10

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
AUG. 22...	0	0	0	0	<50	<50	0	<10	<6	4	<100

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 22...	<97	3	.0	.0	.0	1	0	1	20	0	20

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

SACRAMENTO RIVER BASIN--Continued
11455265 ALAMO CREEK AT BROWN'S DAM, NEAR ELMIRA, CALIF.

LOCATION.--Lat 38°19'44", long 121°51'32", in NW¼NW¼ sec.34, T.6 N., R.3 E., Solano County.
PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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 KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
JUNE 24...	1535	30	3.4	.31	3.6	3.7	1.3	4.9	.94	465	230
AUG. 21...	0930	--	2.1	.20	--	2.3	1.2	--	.93	424	230

DATE	TIME	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 21...	0930	40	5.6	B1500	1580

DATE	TIME	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
AUG. 21...	0930	3900	20	100	80	20	4	1	3	<10	<10

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
AUG. 21...	0	0	0	0	<50	<50	0	<10	<4	6	<100

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 21...	<97	3	.0	.0	.0	1	0	1	30	10	20

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

SACRAMENTO RIVER BASIN--Continued

11455272 RECLAMATION DISTRICT NO. 2068 DRAIN V AT SWAN ROAD, NEAR DIXON, CALIF.

LOCATION.--Lat 38°21'29", long 121°44'20", in NW¼NE¼ sec.22, T.6 N., R.2 E., Solano County.
PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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 KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
JUNE 24...	1420	12	2.7	.45	3.1	3.1	1.9	5.0	.57	615	300
AUG. 22...	1045	--	2.0	.18	--	2.2	1.4	--	.41	640	330

DATE	TIME	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 22...	1045	15	6.5	B5000	B3300

DATE	TIME	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
AUG. 22...	1045	1500	70	70	70	0	5	1	4	<10	<9

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
AUG. 22...	<1	0	0	0	<50	<50	0	<10	<1	9	<100

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 22...	<99	1	.0	.0	.0	2	0	2	10	0	10

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

SACRAMENTO RIVER BASIN--Continued
11455283 NOONAN DRAIN AT HAY ROAD, NEAR ELMIRA, CALIF.

LOCATION.--Lat 38°18'57", long 121°53'02", in SW¼SE¼ sec.32, T.6 N., R.1 E., Solano County.
PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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 KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
JUNE 14...	1345	6.0	.18	.00	.01	.18	1.3	1.3	.19	355	200
AUG. 21...	1000	--	.37	.06	--	.43	.59	--	.14	327	170

DATE	TIME	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 21...	1000	60	3.1	>6000	6300

DATE	TIME	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
AUG. 21...	1000	5400	20	70	70	0	4	2	2	<10	<10

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L
AUG. 21...	0	0	0	0	<50	<50	0	<10	<5	5	<100

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 21...	<98	2	.3	.3	.0	2	1	1	20	20	0

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

SACRAMENTO RIVER BASIN--Continued
11455580 ALONZO DRAIN AT CORDELIA ROAD, NEAR FAIRFIELD, CALIF.

LOCATION.--Lat 38°13'50", long 122°03'56" unsurveyed, T.5 N., R.2 W., Solano County.
PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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 KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
JUNE 26...	1315	2.0	6.7	.18	7.4	6.9	.55	8.0	.06	1270	1400
AUG. 21...	1030	--	2.0	.18	--	2.2	.57	--	.03	1290	1600

DATE	TIME	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 21...	1030	1	1.6	460	37

DATE	TIME	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
AUG. 21...	1030	100	30	10	10	0	2	0	4	<10	<9

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
AUG. 21...	<1	0	0	0	<50	<50	0	<10	<7	3	<100

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 21...	<98	2	.0	.0	.0	5	0	5	20	10	10

SACRAMENTO RIVER BASIN--Continued
11455600 RAINES DRAIN AT CHADBOURNE ROAD, NEAR FAIRFIELD, CALIF.

LOCATION.--Lat 38°12'46", long 122°04'56" unsurveyed, T.4 N., R.2 W., Solano County.
PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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 KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
JUNE 26...	1330	8.0	.82	.13	.74	.95	.52	1.3	.08	1320	700
AUG. 21...	1045	--	.10	.03	--	.13	.64	--	.08	387	250

DATE	TIME	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
AUG. 21...	1045	30	1.6	600	8220

DATE	TIME	TOTAL IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)
AUG. 21...	1045	3800	50	120	120	0	2	0	2	<10	<9

DATE	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)
AUG. 21...	<1	0	0	0	<50	<50	0	<10	<7	3	<100

DATE	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
AUG. 21...	<98	2	.0	.0	.0	1	1	0	20	20	0

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

NAPA RIVER BASIN
11458000 NAPA RIVER NEAR NAPA, CALIF.1/

LOCATION.--Lat 38°22'06", long 122°18'08", in Yajome Grant, Napa County.
DRAINAGE AREA.--218 mi^2 (565 km^2).
PERIOD OF RECORD.--Chemical analyses: Water year 1974 (partial-record station).
Sediment records: Water year 1971 (partial-record station).

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)
OCT. 12...	1220	--	4.2	30	--	21	--	218
DEC. 12...	1215	--	333	12	--	11	--	79
FEB. 19...	1245	--	1020	9.6	6.6	8.4	1.3	58
APR. 02...	1330	--	2800	12	--	7.7	--	78
JUNE 05...	1500	--	35	26	--	18	--	183
SEP. 04...	1130	9.0	--	29	24	23	--	191

DATE	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT. 12...	0	179	--	18	--	241	.33	194	15
DEC. 12...	0	65	--	8.9	--	125	.17	79	14
FEB. 19...	0	48	8.4	6.4	.56	102	.14	51	3
APR. 02...	0	64	--	4.4	--	93	.13	77	13
JUNE 05...	0	150	--	12	--	232	.32	151	1
SEP. 04...	0	157	--	24	--	258	.35	172	15

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT. 12...	--	--	340	8.1	16.0	0	12.9	300
DEC. 12...	--	--	195	7.2	11.0	15	10.8	100
FEB. 19...	26	.5	132	7.3	10.0	140	11.2	200
APR. 02...	--	--	164	7.2	13.5	75	10.7	100
JUNE 05...	--	--	360	8.2	25.5	1	11.2	--
SEP. 04...	--	.8	417	8.1	21.5	0	10.6	--

1/ Records furnished by California Department of Water Resources.

SAN RAFAEL CREEK BASIN

11459790 SAN RAFAEL CREEK AT SIRARD LANE, AT SAN RAFAEL, CALIF.

LOCATION.--Lat 37°59'04", long 122°32'58", in San Pedro Santa Margarita Las Gallinas Grant, Marin County.
DRAINAGE AREA.--0.19 mi^2 (0.49 km^2).
PERIOD OF RECORD.--Sediment records: Water years 1972 to current year (partial-record station).

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.								
12...	1200	15.5	1.4	70	.26	--	--	--
30...	1115	12.5	.78	417	.88	58	73	85
DEC.								
18...	1330	12.0	.08	5	.00	--	--	--
JAN.								
16...	1235	11.5	11	168	5.0	--	--	--
APR.								
01...	1350	14.0	4.4	40	.48	--	--	--

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	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
NOV.								
12...	--	--	--	--	--	--	--	--
30...	93	96	97	98	98	99	100	--
DEC.								
18...	--	--	--	--	--	--	--	--
JAN.								
16...	--	--	76	79	85	95	99	100
APR.								
01...	--	--	--	--	--	--	--	--

11459800 SAN RAFAEL CREEK AT SAN RAFAEL, CALIF.

LOCATION.--Lat 37°58'22", long 122°32'07", in San Pedro Santa Margarita Las Gallinas Grant, Marin County.
DRAINAGE AREA.--1.24 mi^2 (3.21 km^2).
PERIOD OF RECORD.--Sediment records: Water years 1972 to current year (partial-record station).

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	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
NOV.										
06...	1100	16.0	3.7	11	.11	--	--	--	--	--
12...	1130	15.5	6.4	15	.26	--	--	--	--	--
DEC.										
18...	1455	12.5	1.2	2	.01	--	--	--	--	--
JAN.										
16...	1200	12.0	73	287	57	31	45	55	67	76
APR.										
01...	1005	13.5	35	122	12	--	--	--	--	--

DATE	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. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
NOV.									
06...	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--
DEC.									
18...	--	--	--	--	--	--	--	--	--
JAN.									
16...	83	--	90	--	97	--	100	--	--
APR.									
01...	--	85	--	90	--	95	--	98	100

SAN RAFAEL CREEK BASIN--Contnued

11459810 IRWIN CREEK TRIBUTARY AT SAN RAFAEL, CALIF.

LOCATION.--Lat 37°59'28", long 122°30'29", in San Pedro Santa Margarita Las Gallinas Grant, Marin County.
DRAINAGE AREA.--0.11 mi^2 (0.28 km^2).
PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).

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
DEC.									
18...	1135	12.0	.04	8	.00	--	--	--	--
JAN.									
16...	1445	13.0	1.1	29	.09	89	92	97	100
APR.									
01...	1145	13.5	1.2	10	.03	--	--	--	--

11459820 IRWIN CREEK TRIBUTARY NO. 2 AT SAN RAFAEL, CALIF.

LOCATION.--Lat 37°58'56", long 122°30'24", in San Pedro Santa Margarita Las Gallinas Grant, Marin County.
DRAINAGE AREA.--0.16 mi^2 (0.41 km^2).
PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).

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.									
12...	1115	14.5	1.3	35	.12	--	--	--	--
DEC.									
18...	1210	11.0	.37	27	.03	--	--	--	--
JAN.									
16...	1510	12.5	4.2	82	.93	92	96	99	100

11459830 IRWIN CREEK AT SAN RAFAEL, CALIF.

LOCATION.--Lat 37°58'56", long 122°30'50", in San Pedro Santa Margarita Las Gallinas Grant, Marin County.
DRAINAGE AREA.--0.69 mi^2 (1.79 km^2).
PERIOD OF RECORD.--Sediment records: Water years 1972 to current year (partial-record station).

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.									
12...	1040	14.5	3.4	37	.34	--	--	--	--
DEC.									
18...	1120	12.0	.69	13	.02	--	--	--	--
27...	1020	12.5	3.2	9	.08	--	--	--	--
JAN.									
16...	1410	12.0	13	204	7.2	65	80	96	100
APR.									
01...	1115	13.0	11	46	1.4	--	--	--	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

KLAMATH RIVER BASIN
11519500 SCOTT RIVER NEAR FOR JONES, CALIF.1/

LOCATION.--Lat 41°38'27", long 123°00'50", in NE¼NE¼ sec.29, T.44 N., R.10 W., Siskiyou County.
DRAINAGE AREA.--653 mi^2 (1,691 km^2).
PERIOD OF RECORD: Chemical analyses: November 1958 to September 1969, water years 1970 to current year (partial-record station).
Sediment records: September 1955 to May 1956 (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
JAN., 1974												
14...	1525	2730	--	--	9.0	7.2	2.0	.4	61	0	50	2.1
MAR.												
15...	1145	1660	--	--	--	--	--	--	--	--	--	--
MAY												
07...	1430	2860	3500	80	--	--	1.7	--	61	0	50	--
JULY												
16...	1505	314	--	--	--	--	--	--	--	--	--	--
SEP.												
13...	1100	74	--	--	33	18	5.0	.9	181	0	148	8.6

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
JAN., 1974											
14...	1.8	.27	--	--	--	80	.11	590	52	2	8
MAR.											
15...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	.0	.11	.10	.10	.01	--	--	--	51	1	--
JULY											
16...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
13...	3.4	.86	--	--	--	168	.23	33.6	156	8	6

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	Ph (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JAN., 1974											
14...	.1	109	7.2	7.0	16	12.8	0	--	--	--	--
MAR.											
15...	--	199	7.6	9.0	30	11.6	--	--	--	--	--
MAY											
07...	.1	106	7.5	12.5	36	10.5	0	0	10	0	10
JULY											
16...	--	231	8.0	20.5	1	12.0	--	--	--	--	--
SEP.											
13...	.2	308	8.1	17.5	0	10.9	100	--	--	--	--

1/ Records furnished by California Department of Water Resources.

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

RUSSIAN RIVER BASIN--Continued

384141123013401 LITTLE WARM SPRINGS CREEK AT SKAGGS SPRINGS, CALIF.

LOCATION.--Lat 38°41'41", long 123°01'34", in SW¼SE¼ sec.24, T.10 N., R.11 W., Sonoma County.
DRAINAGE AREA.--1.92 mi^2 (4.97 km^2).
PERIOD OF RECORD.--Chemical analyses: Water year 1974 (partial-record station).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	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...	1130	.05	60	40	32	16	520	12	1310	95	1230	13

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	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)	SUSPENDED KJEL. NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)
AUG. 29...	40	11	.00	.00	.02	.02	.86	.24	.88	.62	.26

DATE	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)
AUG. 29...	.88	.19	.15	1500	2.04	.20	150	0	88	19	2260

DATE	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	DISSOLVED ORGANIC CARBON (C) (MG/L)	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MATERIAL (UG/G)	DISSOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)
AUG. 29...	8.4	22.0	8.3	94	9.6	13	6.9	42	6	56000	<10

DATE	TOTAL CADMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MATERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MATERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MATERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MATERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MATERIAL (UG/G)
AUG. 29...	<1	0	20	<10	14	<100	10	.6	.0	10	37

RUSSIAN RIVER BASIN--Continued
384755123094501 COOLEY RANCH HOT SPRINGS NEAR YORKVILLE, CALIF.

LOCATION.--Lat 38°47'55", long 123°09'45", in SE¼ sec.14, T.11 N., R.12 W., Sonoma County.
PERIOD OF RECORD.--Chemical analyses: Water year 1974 (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
AUG. 30...	1215	.01	58	20	2.3	.3	140	2.0	187	39	218

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO
AUG. 30...	13	32	14	.07	438	.60	.01	7	0	97	23

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (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)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)
AUG. 30...	574	8.7	38.0	.8	1	1	0	45000	<10	<1	0

DATE	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	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)
AUG. 30...	0	<10	1	<100	3	.0	.0	.4	10	0

EEL RIVER BASIN
11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CALIF.

LOCATION.--Lat 39°23'19", long 123°06'54", in NE¼ sec.30, T.18 N., R.11 W., Mendocino County.
DRAINAGE AREA.--349 mi^2 (904 km^2).
PERIOD OF RECORD.--Chemical analyses: Water years 1972 to current year (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL ORGANIC NITROGEN (N) (MG/L)
NOV. 07...	1430	447	.07	.00	.07	.38	.00
JAN. 15...	1330	17000	.04	.01	.05	.37	.10
FEB. 19...	1400	3800	.01	.00	.01	.69	.00
MAR. 25...	1340	735	.05	.00	.05	.05	.13

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV. 07...	.37	.59	.02	159	12.0	6.7
JAN. 15...	.47	.32	.02	95	6.5	5.2
FEB. 19...	.32	.17	.15	117	7.5	3.5
MAR. 25...	.18	.07	.02	120	9.5	3.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974

EEL RIVER BASIN--Continued
11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CALIF.--Continued

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 HEPTA-CHLOR (UG/L)
NOV. 07...	1430	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
NOV. 07...	.00	.00	.00	.00	.00	.0	.00	.00	.00

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)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)
NOV. 07...	1430	3	3	0	<10	10	0	60	0	<25	25	0
JAN. 15...	1330	6	5	1	10	9	1	40	0	50	50	0
FEB. 19...	1400	1	1	0	10	10	0	10	0	<50	<49	1
MAR. 25...	1340	1	--	6	<10	<10	0	0	0	100	100	0

DATE	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV. 07...	20	17	3	<100	100	0	.1	.0	.1	30	0	30
JAN. 15...	20	16	4	<100	98	2	.3	.2	.1	50	30	20
FEB. 19...	10	4	6	<100	<95	5	.2	.2	.0	50	30	20
MAR. 25...	40	34	6	<100	<94	6	.2	.2	.0	30	20	10

DRY CREEK
Mendocino County

STATION NUMBER	LATI-TUDE	LONGI-TUDE	SEQ. NO.	LOCAL IDENTIFIER	GEOLOGIC UNIT 1/	DATE OF SAMPLE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)
383348122505101	38 33 48	122 50 51	01	008N009W03P02M	111ALVM	74-09-19	1020	24	50
383536122520401	38 35 36	122 52 04	01	009N009W28N02M	111ALVM	74-03-26	1030	27	10
					111ALVM	74-09-19	1120	27	20
383655122530701	38 36 55	122 53 07	01	009N009W20E02M	111ALVM	74-03-26	1100	20	10
					111ALVM	74-09-19	1155	20	20
383954122554801	38 39 54	122 55 48	01	010N010W35Q02M	111ALVM	74-03-26	1155	29	20
					111ALVM	74-09-19	1305	24	50
384218122574701	38 42 18	122 57 47	01	010N010W22D01M	111ALVM	74-03-26	1240	24	120
					111ALVM	74-09-19	1345	29	20

DATE OF SAMPLE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	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 NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
74-09-19	34	18	11	2.3	197	0	162	15	7.4	.1	.25	199
74-03-26	23	28	13	.7	209	0	171	16	7.5	.3	.75	214
74-09-19	24	30	13	1.0	213	0	175	17	8.6	.1	.86	207
74-03-26	22	17	9.3	.8	146	0	120	18	4.9	.2	.74	161
74-09-19	18	13	9.3	1.2	126	--	103	15	5.2	.1	.18	131
74-03-26	14	12	9.2	.4	84	0	69	18	6.9	.2	2.7	142
74-09-19	9.3	3.6	7.2	.4	37	0	30	13	5.1	.1	1.0	73
74-03-26	8.9	5.3	6.3	.3	32	0	26	17	4.6	.1	2.3	94
74-09-19	12	9.7	10	.4	84	0	69	15	5.7	.1	1.0	116

DATE OF SAMPLE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED BORON (B) (UG/L)
74-09-19	210	.27	160	0	13	.4	346	7.8	19.0	5.0	240
74-03-26	222	.29	170	1	14	.4	380	7.2	14.5	21	160
74-09-19	230	.28	180	9	13	.4	381	7.3	17.0	17	170
74-03-26	168	.22	130	5	14	.4	281	7.0	14.0	23	160
74-09-19	145	.18	98	0	17	.4	243	7.2	18.0	13	200
74-03-26	143	.19	84	15	19	.4	217	6.6	14.0	34	30
74-09-19	85	.10	38	8	29	.5	113	6.3	15.5	30	30
74-03-26	93	.13	44	18	24	.4	127	6.2	14.5	32	40
74-09-19	128	.16	70	1	24	.5	192	6.6	17.5	34	70

MAD RIVER
Humboldt County

STATION NUMBER	LATI-TUDE	LONGI-TUDE	SEQ. NO.	LOCAL IDENTIFIER	GEOLOGIC UNIT 1/	DATE OF SAMPLE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)
405118123592601	40 51 18	123 59 26	01	006N002E31R01H	111ALVM	74-01-24	1040	8.4	2300
					111ALVM	74-04-09	1230	9.8	70
405148123581701	40 51 48	123 58 17	01	006N002E32H01H	111ALVM	74-01-24	1005	30	350
					111ALVM	74-04-09	1030	29	10
405221124000601	40 52 21	124 00 06	01	006N002E30M01H	111ALVM	74-01-24	1120	9.6	7200
					111ALVM	74-04-09	1315	9.8	1700
405246124003801	40 52 46	124 00 38	01	006N001E25B01H	111ALVM	74-01-24	1200	6.5	160
					111ALVM	74-04-09	1340	18	80
405357124005701	40 53 57	124 00 57	01	006N001E13P01H	111ALVM	74-01-24	1245	23	230
					111ALVM	74-04-09	1405	22	80
405420124053501	40 54 20	124 05 35	01	006N001E17F02H	111ALVM	74-01-24	1415	33	9000
					111ALVM	74-04-09	1450	31	9000
405426124043301	40 54 26	124 04 33	01	006N001E16E03H	111ALVM	74-01-24	1330	14	620
					111ALVM	74-04-09	1420	15	1200
405453124060101	40 54 53	124 06 01	01	006N001E07P01H	111ALVM	74-01-24	1345	19	430
					111ALVM	74-04-09	1500	18	380

DATE OF SAMPLE	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	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 NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
74-01-24	19	3.8	3.7	.8	71	0	58	6.7	2.1	.5	.02	81
74-04-09	24	5.1	5.2	.8	89	0	73	8.0	3.1	.1	.18	107
74-01-24	34	26	11	1.2	232	0	190	7.8	9.5	.4	.18	223
74-04-09	36	25	11	1.2	236	0	194	8.8	9.5	.1	.24	228
74-01-24	29	6.5	4.9	1.4	120	0	98	6.4	2.3	.1	1.1	125
74-04-09	32	6.2	5.1	1.0	120	0	98	11	2.9	.1	.04	131
74-01-24	14	10	10	13	50	0	41	13	19	.1	9.5	168
74-04-09	16	12	11	10	61	0	50	13	21	.1	8.3	172
74-01-24	6.2	6.6	13	.8	56	0	46	2.0	12	.2	1.5	89
74-04-09	6.4	6.8	12	1.0	57	0	47	2.3	11	.1	1.9	99
74-01-24	59	20	8.2	1.1	256	0	210	24	7.4	1.5	.05	272
74-04-09	57	21	8.6	1.1	263	0	216	26	6.9	.2	.03	281
74-01-24	65	12	7.8	1.2	247	0	203	5.3	11	.5	.03	235
74-04-09	63	13	7.9	1.2	249	0	204	6.6	11	.1	.03	240
74-01-24	39	27	10	1.3	266	0	218	3.8	7.5	.6	.08	229
74-04-09	41	27	10	1.3	275	0	226	4.9	7.0	.2	.03	240

DATE OF SAMPLE	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED BORON (B) (UG/L)
74-01-24	82	.11	63	5	11	.2	136	7.5	11.0	3.6	60
74-04-09	101	.15	81	8	12	.3	175	7.5	12.5	4.5	40
74-01-24	235	.30	190	2	11	.3	399	7.5	12.5	12	40
74-04-09	238	.31	190	0	11	.3	396	7.5	12.0	12	20
74-01-24	132	.17	99	1	10	.2	213	7.1	11.5	15	90
74-04-09	129	.18	110	7	9	.2	222	7.3	13.5	9.6	80
74-01-24	153	.23	76	35	19	.5	272	5.9	11.5	101	70
74-04-09	168	.23	89	39	19	.5	271	5.9	12.0	123	40
74-01-24	99	.12	43	0	39	.9	146	6.1	11.5	71	290
74-04-09	99	.13	44	0	37	.8	150	6.1	15.0	72	330
74-01-24	290	.37	230	20	7	.2	460	6.9	12.5	52	140
74-04-09	291	.38	230	13	8	.2	465	6.9	15.0	53	120
74-01-24	239	.32	210	9	7	.2	426	7.4	11.5	16	90
74-04-09	242	.33	210	7	8	.2	427	7.4	14.0	16	70
74-01-24	240	.31	210	0	9	.3	438	7.1	13.0	34	90
74-04-09	246	.33	210	0	9	.3	436	7.1	13.5	35	70

1/ Cenozoic, Quaternary, Holocene, Alluvium.

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