Williams

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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

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Water-resources records, 1972, 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

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Prepared in cooperation with

California Department of Water Resources
California Department of Transportation
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
Placer County Department of Public Works
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 County Flood Control and Water District
Santa Cruz City Water Department
Santa Cruz County Flood Control and Water Conservation District
Siskiyou County Flood Control and Water Conservation District
Solano Irrigation 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, (t) water temperature, (s) sediment)

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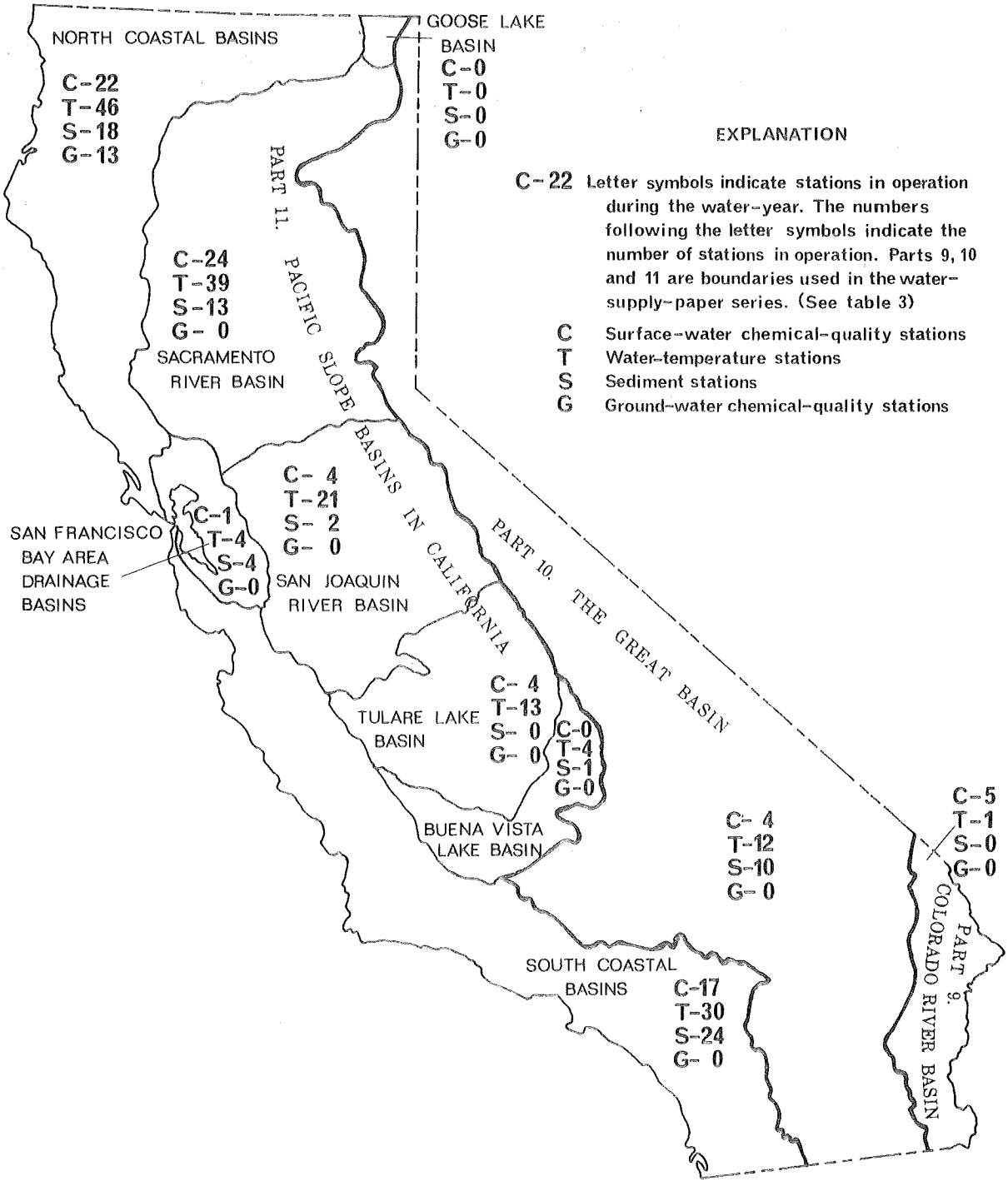

FIGURE 1.--Drainage-basin boundaries and number and distribution of water-quality stations.

WATER RESOURCES DATA FOR CALIFORNIA, 1972

Part 2. Water Quality Records

INTRODUCTION

Water-resources data for the 1972 water year for California include records of data for the chemical and physical characteristics of surface and ground water. 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 R. Stanley Lord and Lee R. Peterson, successive district chiefs. These data represent that portion of the National Water Data System collected by the U.S. 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:

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California Department of Transportation, John B. Skog, assistant materials and research engineer.
Coachella Valley County Water District, Lowell O. Weeks, general manager.
Desert Water Agency, Paul G. Payne, general manager.
Georgetown Divide Public Utility District, C. F. Gierau, general manager.
Monterey County Flood Control and Water Conservation District, Loren Bunte, Jr., district engineer.
Orange County Flood Control District, H. G. Osbourne, chief engineer.
Orange County Water District, James R. Cofer, district engineer.
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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 water-quality and hydrologic data, as used in this report are defined as follows:

Acre-foot (AC-FT, ac-ft) is a 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.

Bed material is the shifting portion of fragmented alluvial material of which the streambed is composed.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons.

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.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate or delayed incubation membrane filter method.

Cubic foot per second (cfs, CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second or 448.8 gallons per minute.

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 mean of individual daily mean discharges during a specific period. If this discharge is reported, the heading of the column in the tables is "Discharge (cfs)."

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

Dissolved solids is the residue on evaporation after drying at 180°C for 1 hour. For some water samples, particularly those containing moderately large quantities of soluble salts, the value reported is calculated from the quantities of the various determined constituents using the carbonate equivalent of the reported bicarbonate. The calculated sum of the constituents may be given instead of or in addition to the residue.

Drainage area of a stream at a specified locations is that area, measured in horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point.

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 attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium cabonate ($CaCO_3$).

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

Milligrams per liter (mg/l, MG/L) is a unit for exprssing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, page 6. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, p. 6.

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

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined either by sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969).

Particle-size classification, used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is shown on p. 7.

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

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

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per liter to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 mg/l	Divide by	Range of concentration in 1000 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		

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

Classification	Size (mm)	Method of analysis
Clay...	0.00024 - 0.004	Sedimentation.
Silt..... ...	.004 - .062	Sedimentation.
Sand.....	.062 - 2.0	Sedimentation or sieve.
Gravel.....	2.0 - 64.0	Sieve.

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

Plankton is the floating (or weakly swimming) animal or plant life in a body of water consisting chiefly of minute plants (as diatoms and blue-green algae) and of minute animals (as protozoan, entomostracans, and various larvae).

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.

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 or by volume, that is discharged in a given time. Sediment discharge in tons per day is computed by multiplying water discharge (cfs) times suspended-sediment concentration (mg/l) times 0.0027.

Total sediment discharge or total sediment load is the sum of the 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 (Colby and Hembree, 1955).

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 liter 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.

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. This ratio should be known especially for water used for irrigating farmland.

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 centimeter 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, the amount of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, or from well to well, and it may even vary in the same source with changes in the composition of the water.

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

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 location of the thermograph or the digital mechanism that automatically records water temperature in 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 years.

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

Tons per day 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. See also table for converting English Units to Internation Units (SI) on page 21.

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 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 of 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."

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 (Goerlitz and Brown, 1972, p. 24). 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). There are 275 isotopes of the 81 stable elements in addition to over 800 radioactive isotopes.

Radioisotopes that are determined in this program are those of uranium in micrograms per liter, radium as radium-226 in picocuries per liter, gross beta radiation as strontium/yttrium-90 in picocuries per liter, and gross alpha radiation as micrograms of uranium equivalent per liter.

A picocuries (PC/L, pCi/l) is one millionth of the amount of radioactivity represented by a microcurie, which is the quantity of radiation represented by one millionth of a gram of radium-226. A picocurie of radium results in 2.22 disintegration 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 Coast basins). 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 for a surface-water miscellaneous sampling site and a well site are the same, assign sequential numbers "01", "02", etc. within the same sequence. See figure 2, page 13.

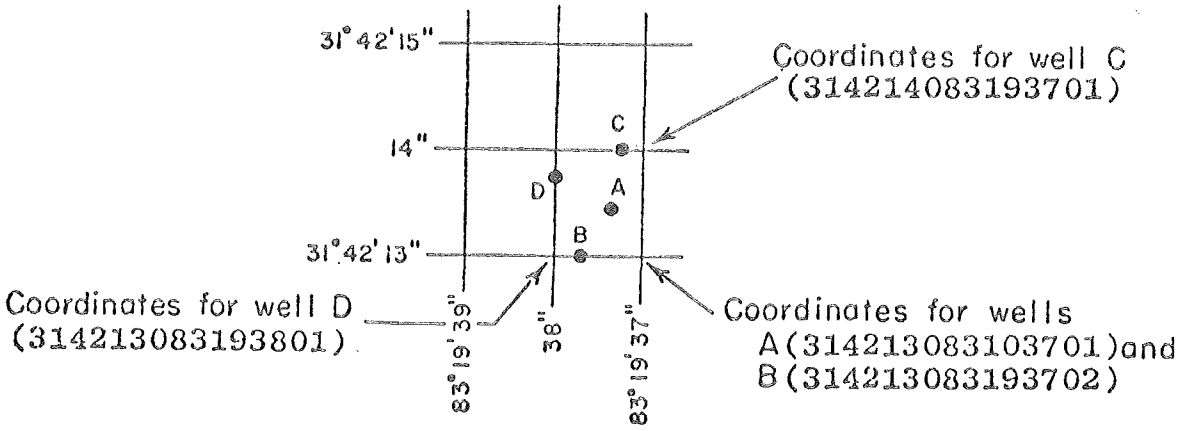

Figure 2.--System for numbering wells (latitude and longitude)

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 sediment loads. Discharge records for streams in California have been released in the report, "Water Resources Data for California, 1972, 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 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 liter (mg/l) and water temperatures in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per milliliter), parts per millions and milligrams per liter 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 liter. Temperature reported in degrees Celsius may be converted to degrees Fahrenheit by using the table on page 15.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. (See "Definitions of Terms," p. 5 and table for converting English units to SI units, p. 21.

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge depending on the source of material and the turbulence and the mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

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

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

The daily chemical quality data in this report generally represent equal-volume composites for 2- to 30-day periods; the composite periods are selected on the basis of specific conductance of the daily samples and fluctuation of water discharge.

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 does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately defines ground-water quality at a given site. Water samples from wells are analyzed individually.

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 the monthly maximum and minimum.

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 in 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 sub-divided 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 sub-divided 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 some 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 establihsing 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, 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 employed. 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 ppm (parts per million) as SiO_2 from July 1966 to September 1968, and in mg/l (milligrams per liter) as SiO_2 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 mg/l or in JTU. Hence, conversion of data for the period July 1966 through September 1970, from ppm or mg/l of silica to JTU can be made by use of table 4 below:

Table 4.--Conversion of turbidity values, measured by Hach Turbidimeters Model 1860 or 2100 from ppm or mg/l 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 below 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 1941-70

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	A2148, A2149
1950	1189	1960	1745	1970	A2158, A2159

A In preparation.

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_____1957, Some fundamentals of particle size analysis: Rpt. 12, 55 p.

_____1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA, 38 p.

_____1961, The single stage sampler for suspended sediment: Rept. 13, 105 p.

_____1963, Determinations of fluvial sediment discharge: Rept. 14, 151 p.

Table 5.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units published herein to the International System of Units (SI). Subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
inches (in)	25.4	millimeters (mm)
	.0254	meters (m)
feet (ft)	.3048	meters (m)
yards (yd)	.9144	meters (m)
rods	5.0292	meters (m)
miles (mi)	1.609	kilometers (km)
	Area	
acres	4047	square meters (m^2)
	.4047	*hectares (ha)
	.4047	square hectometer (hm^2)
	.004047	square kilometers (km^2)
square miles (mi^2)	2.590	square kilometers (km^2)
	Volume	
gallons (gal)	3.785	**liters (l)
	3.785	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons (10^6 gal)	3785	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	28.32	cubic decimeters (dm^3)
	.02832	cubic meters (m^3)
cfs-day (ft^3/s-day)	2447	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1233	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	28.32	liters per second (l/s)
	28.32	cubic decimeters per second (dm^3/s)
	.02832	cubic meters per second (m^3/s)
gallons per minute (gpm)	.06309	liters per second (l/s)
	.06309	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day (mgd)	43.81	cubic decimeters per second (dm^3/s)
	.04381	cubic meters per second (m^3/s)
	Mass	
ton (short)	.9072	tonne (t)

*The unit hectare is approved for use with the International System (SI) for a limited time. See NBS Special Bulletin 330, p.15, 1972 edition.

**The unit liter is accepted for use with the International System (SI). See NBS Special Bulletin 330, p. 13, 1972

COLORADO RIVER MAIN STEM

09421500 COLORADO RIVER BELOW HOOVER DAM, ARIZ.-NEV.
(Irrigation network station)

LOCATION.--Lat 36°00'55", long 114°44'16", in NE¼SW¼ sec.3, T.30 N., R.23 W., Gila and Salt River meridian, Mohave County, Ariz., or in SW¼NE¼ sec.29, T.22 S., R.65 E., Mount Diablo meridian, Clark County, Nev., 0.3 mile downstream from gaging station in powerhouse at downstream side of Hoover Dam.

DRAINAGE AREA.--167,800 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1939 to September 1972.
Water temperatures: October 1941 to September 1965.
Published as "below Boulder Dam" in 1940-45.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	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)
OCT.								
13...	0855	14220	9.5	10	89	31	110	4.2
NOV.								
16...	0915	9620	9.4	10	92	31	110	4.6
DEC.								
14...	1025	9960	9.2	10	88	31	110	5.1
JAN.								
18...	1645	8320	12	0	91	29	130	7.0
FEB.								
15...	0930	18450	8.9	0	88	31	110	5.9
MAR.								
14...	0920	28000	9.0	40	85	31	110	5.3
APR.								
18...	1730	25400	9.4	10	87	30	110	5.3
MAY								
15...	1755	28060	9.4	10	90	29	100	4.9
JUNE								
19...	1540	18960	9.3	20	87	30	110	5.0
JULY								
18...	1110	25700	9.2	10	81	31	110	4.9
AUG.								
21...	1330	15800	9.1	20	80	30	100	5.4
SEP.								
26...	1040	14620	9.2	10	86	29	100	4.4

DATE	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)	DIS-SOLVED NITRITE PLUS NITRATE (N) (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)
OCT.									
13...	171	0	320	92	.4	.75	.01	736	744
NOV.									
16...	169	0	330	91	.4	.71	.01	--	755
DEC.									
14...	159	0	330	94	.5	.55	.01	742	749
JAN.									
18...	157	0	350	110	--	.52	.00	804	809
FEB.									
15...	162	0	320	96	.4	.48	.00	744	742
MAR.									
14...	168	0	300	91	.4	.63	.01	718	717
APR.									
18...	165	0	300	91	--	.61	.03	720	717
MAY									
15...	165	0	300	91	.3	.63	.00	702	709
JUNE									
19...	174	0	310	92	.3	.60	.03	728	732
JULY									
18...	165	0	310	91	.4	.58	.00	728	721
AUG.									
21...	163	0	300	90	.5	.47	.04	764	698
SEP.									
26...	163	0	300	87	.4	.65	.00	784	699

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	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.								
13...	1.00	350	210	2.6	1160	7.8	13.0	150
NOV.								
16...	1.03	360	220	2.5	1160	7.8	12.0	150
DEC.								
14...	1.01	350	220	2.6	1160	7.8	13.5	180
JAN.								
18...	1.09	350	220	3.0	1230	7.8	14.0	210
FEB.								
15...	1.01	350	210	2.6	1170	8.0	12.0	150
MAR.								
14...	.98	340	200	2.6	1120	7.3	11.0	140
APR.								
18...	.98	340	210	2.6	1120	8.0	11.0	--
MAY								
15...	.95	340	210	2.3	1090	8.2	11.0	100
JUNE								
19...	.99	340	200	2.6	1130	7.6	12.0	140
JULY								
18...	.99	330	190	2.6	1140	7.8	12.0	150
AUG.								
21...	1.04	320	190	2.4	1120	7.9	12.0	150
SEP.								
26...	1.07	330	200	2.4	1120	8.0	12.0	180

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
13...	0855	14220	1080	7.8	13.0	23.0	6.7
NOV.							
16...	0915	9620	1150	7.6	12.0	8.0	8.0
DEC.							
14...	1025	9960	1120	7.6	13.5	7.0	8.8
JAN.							
18...	1645	8320	1220	7.5	14.0	13.0	9.0
FEB.							
15...	0930	18450	1120	7.8	12.0	11.0	9.7
MAR.							
14...	0923	28000	1020	7.8	11.0	19.0	9.0
APR.							
18...	1730	25400	1120	7.9	11.0	19.0	8.5
MAY							
15...	1755	28060	1140	7.8	11.0	31.0	8.0
JUNE							
19...	1540	18960	1000	7.7	12.0	40.0	7.6
JULY							
18...	1110	25700	1150	7.8	12.0	38.0	7.5

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 miles upstream from Parker Dam, and 154 miles downstream from Hoover Dam.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1972.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.												
06...	1700	6.8	84	32	110	5.0	134	2	113	327	93	.4
NOV.												
08...	1730	8.4	88	32	110	5.0	146	0	120	328	98	.5
DEC.												
08...	--	8.5	89	33	109	5.0	151	0	124	323	96	.4
JAN.												
08...	1820	6.4	90	33	114	4.0	151	1	126	328	100	.4
FEB.												
08...	1800	8.4	90	33	113	5.0	159	0	130	330	100	.4
MAR.												
08...	1710	6.8	90	33	110	5.0	157	0	129	321	98	.4
APR.												
08...	1290	8.4	87	34	110	6.0	153	0	125	324	98	.5
MAY												
08...	1730	8.0	89	33	113	6.0	157	1	130	324	98	.5
JUNE												
07...	1690	6.8	87	32	113	5.0	155	1	129	319	97	.5
JULY												
08...	1980	7.4	82	32	109	5.0	142	1	118	314	96	.4
AUG.												
08...	1810	7.8	78	32	112	5.0	123	4	108	316	96	.4

DATE	DIS-SOLVED 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)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.											
06...	.14	728	1020	.99	341	230	14	1.2	1160	8.5	--
NOV.											
08...	.11	744	742	1.01	353	230	40	2.6	1150	8.2	17.0
DEC.											
08...	.20	740	739	1.01	358	230	39	2.5	1160	8.2	13.0
JAN.											
08...	.16	753	752	1.02	360	230	40	2.6	1170	8.6	9.5
FEB.											
08...	.32	761	760	1.03	360	230	40	2.6	1200	8.3	9.5
MAR.											
08...	.25	744	743	1.01	360	230	39	2.5	1170	8.2	15.5
APR.											
08...	.25	746	744	1.01	359	230	40	2.5	1170	8.3	18.5
MAY											
08...	.26	752	751	1.02	358	230	40	2.6	1140	8.3	21.5
JUNE											
07...	.20	740	739	1.01	349	220	41	2.6	1140	8.5	25.5
JULY											
08...	.02	718	717	.98	338	220	41	2.6	1100	8.4	25.5
AUG.											
08...	.07	714	712	.97	328	220	42	2.7	1110	8.5	26.5

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 San Bernardino County, Calif., at gaging station at Parker Dam, 13 miles northeast of Parker, Ariz., and 14 miles upstream from Headgate Rock Dam.

DRAINAGE AREA.--178,800 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: October 1963 to September 1972.
Water temperatures: February 1954 to August 1970.
Prior to 1969 water year, published as sta 09428000.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.												
06...	1020	4550	8.6	10	82	33	110	5.1	148	0	340	98
NOV.												
03...	--	A5640	9.3	10	87	30	120	5.3	152	0	340	99
DEC.												
01...	1150	4300	9.4	10	84	32	110	5.7	159	0	340	98
JAN.												
05...	1030	4420	8.8	0	89	33	110	6.8	163	0	340	100
FEB.												
14...	1255	10000	9.8	10	89	33	120	5.9	167	0	340	100
MAR.												
05...	0930	5590	9.3	10	91	32	120	5.3	171	0	340	100
APR.												
02...	1025	18100	8.4	20	95	33	110	5.7	162	0	340	98
MAY												
07...	1100	18000	9.2	10	91	32	110	5.4	164	0	320	98
JUNE												
04...	1530	18200	8.5	20	89	30	110	5.1	169	0	320	96
AUG.												
06...	1115	15800	9.1	10	83	30	110	4.8	154	0	310	93
SEP.												
10...	1045	14000	8.7	10	80	30	110	5.3	142	0	300	95

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)	DISSOLVED BORON (B) (UG/L)
OCT.											
06...	.4	.36	770	752	1.05	340	220	2.6	1160	7.7	140
NOV.											
03...	.3	.38	776	768	1.06	340	220	2.8	1180	8.0	170
DEC.											
01...	.5	.42	760	760	1.03	340	210	2.6	1170	8.1	100
JAN.											
05...	.4	.40	776	770	1.06	360	220	2.5	1190	8.1	150
FEB.											
14...	.5	.44	766	782	1.04	360	220	2.8	1180	8.1	160
MAR.											
05...	.4	.54	770	785	1.05	360	220	2.8	1180	7.9	80
APR.											
02...	.4	.76	756	774	1.03	370	240	2.5	1180	7.7	160
MAY											
07...	.4	.60	752	749	1.02	360	220	2.5	1160	7.9	110
JUNE											
04...	.4	.43	730	744	.99	350	210	2.6	1150	7.5	150
AUG.											
06...	.4	.26	712	717	.97	330	200	2.6	1130	7.7	140
SEP.											
10...	.4	.12	716	700	.97	320	210	2.7	1130	7.6	140

A Mean discharge.

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

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)
NOV.								
17...	1035	4510	1080	8.0	15.0	15.0	9.5	1
DEC.								
15...	1150	6280	1140	8.0	12.0	9.0	10.7	1
JAN.								
20...	1115	4380	1150	7.8	10.0	16.0	11.1	1
FEB.								
16...	1130	12100	1100	8.0	10.5	18.0	10.7	1
MAR.								
15...	1110	13290	980	8.0	17.0	26.0	9.3	1
APR.								
19...	1115	13800	1030	8.0	18.0	22.0	9.2	1
MAY								
17...	1125	16940	1080	7.9	22.0	34.0	8.5	3
JUNE								
21...	1120	14830	970	7.9	26.0	39.0	7.9	1
JULY								
19...	1030	14400	1060	7.9	25.0	37.0	7.7	1
SEP.								
12...	1130	14200	1090	7.7	24.5	34.0	8.5	1

09429490 COLORADO RIVER ABOVE IMPERIAL DAM, ARIZ.-CALIF.
(Irrigation network and pesticide station)
(Formerly published as 09429500 Colorado River at Imperial Dam)

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 miles upstream from Laguna Dam, 15 miles northeast of Yuma, Ariz., 90 miles downstream from Palo Verde Dam, and 147 miles downstream from Parker Dam.

DRAINAGE AREA.--184,600 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: Agusut 1969 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum daily, 1,550 micromhos Dec. 3; minimum daily, 1,260 micromhos July 13, 17, 24.

Period of record:
Specific conductance: Maximum daily, 1,880 micromhos Nov. 21, 1969; minimum daily, 1,250 micromhos Aug. 22, 1971.

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 chemical constituents.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	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)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)
OCT.												
06...	6460	12	10	95	35	160	5.4	177	0	370	120	.6
NOV.												
03...	4920	13	10	99	37	180	5.8	190	0	400	160	.4
DEC.												
08...	6160	14	0	97	35	170	6.2	185	0	380	160	.7
JAN.												
05...	7400	12	10	99	36	150	7.3	180	0	390	140	.5
FEB.												
02...	6440	13	10	99	34	170	6.1	191	0	380	160	.5
MAR.												
01...	8020	11	10	100	33	150	5.5	188	0	370	130	.5
APR.												
05...	11500	9.2	10	100	33	140	5.9	173	0	360	120	.4
MAY												
03...	9340	9.5	10	95	35	140	5.7	182	0	360	130	.5
JUNE												
14...	9200	9.8	10	95	32	140	4.8	182	0	350	130	.4
JULY												
05...	11400	10	10	94	33	140	5.0	173	0	350	120	.4
12...	11100	11	10	95	33	140	4.9	171	0	350	120	.6
26...	11100	11	0	93	32	130	4.9	170	0	350	120	.4
AUG.												
02...	11500	11	10	91	32	140	5.3	168	0	340	120	.5
09...	10800	9.9	10	91	32	140	4.8	169	0	350	120	.5
16...	10100	10	10	89	32	140	5.0	166	0	340	120	.5
SEP.												
06...	8060	11	10	91	33	150	5.4	172	0	360	130	.5
13...	8890	10	10	89	33	140	5.3	164	0	350	120	.5
20...	8950	11	20	90	32	120	5.5	172	0	330	120	.5

DATE	DIS-SOLVED NITRITE PLUS NITRATE (N) (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)	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)	DIS-SOLVED BORON (B) (UG/L)
OCT.											
06...	.31	.01	962	887	1.31	380	240	3.6	1410	8.1	210
NOV.											
03...	.27	.03	976	990	1.33	400	240	3.9	1500	8.1	240
DEC.											
08...	.33	.01	996	956	1.35	390	230	3.8	1470	8.2	170
JAN.											
05...	.38	.00	956	925	1.30	400	250	3.3	1430	8.2	210
FEB.											
02...	.34	.00	950	958	1.29	390	230	3.8	1450	8.2	240
MAR.											
01...	.45	.01	880	895	1.20	390	230	3.3	1350	8.2	130
APR.											
05...	.42	.00	866	856	1.18	390	240	3.1	1310	8.2	190
MAY											
03...	.42	.00	896	867	1.22	380	230	3.1	1360	8.3	170
JUNE											
14...	.29	.00	840	853	1.14	370	220	3.2	1330	7.9	190
JULY											
05...	.51	.00	854	840	1.16	370	230	3.2	1290	8.3	200
12...	.26	.00	834	840	1.13	370	230	3.2	1300	7.8	200
26...	.24	.01	856	826	1.16	360	220	3.0	1290	8.0	190
AUG.											
02...	.40	.01	828	824	1.13	360	220	3.2	1290	7.8	160
09...	.19	.00	844	832	1.15	360	220	3.2	1290	8.0	160
16...	.15	.01	830	819	1.13	350	220	3.2	1280	8.1	160
SEP.											
06...	.12	.01	874	866	1.19	360	220	3.4	1350	7.9	190
13...	.07	.01	846	829	1.15	360	220	3.2	1300	8.0	180
20...	.24	.00	840	795	1.14	360	220	2.8	1290	7.8	190

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

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	AIR TEMP-ERATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
15...	1355	7080	1350	8.2	24.0	26.0	8.4
NOV.							
18...	1315	5890	1460	8.0	13.5	14.5	10.2
DEC.							
16...	1255	6210	1330	8.1	9.5	12.0	10.7
JAN.							
21...	1550	4900	1410	8.1	12.0	23.0	10.2
FEB.							
17...	1410	7650	1340	8.0	13.5	25.0	9.7
MAR.							
16...	1305	10760	1080	7.9	19.0	33.0	8.5
APR.							
20...	1500	1140	1200	8.1	25.0	19.0	8.7
MAY							
18...	1325	9860	1200	8.0	24.0	30.0	8.1
JUNE							
22...	1350	10700	1140	8.1	28.0	35.0	7.7
JULY							
20...	1510	11500	1220	8.2	28.0	38.0	--
SEP.							
13...	1400	9340	1240	8.0	26.5	36.0	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)
AUG.								
16...	1400	10150	.00	.0	.00	.00	.00	.00
SEP.								
13...	1400	9340	.00	.0	.00	.00	.00	.00

DATE	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG.							
16...	.00	.00	.00	.00	.00	.00	.00
SEP.							
13...	.00	.00	.00	.00	.00	.00	.00

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

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/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)
OCT.							
18...	0820	4.8	.2	14	.5	12	1.7
JULY							
10...	1325	6.1	<.1	18	<.4	12	.7

DATE	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)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.						
18...	9.7	1.5	.17	5.4	1000	12
JULY						
10...	10	.6	.19	5.6	960	6

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1320	1500	1540	1430	1430	1340	1330	1340	1320	1310	1270	1370
2	1360	1490	1540	1460	1430	1340	1320	1330	1330	1280	1270	1360
3	1440	1510	1550	1410	1390	1360	1290	1340	1330	1300	1270	1350
4	1420	1480	1520	1400	1370	1360	1280	1360	1370	1280	1280	1340
5	1410	1480	1520	1410	1380	1360	1290	1360	1340	1290	1280	1330
6	1400	1480	1520	1410	1400	1310	1290	1340	1320	1280	1280	1330
7	1430	1450	1480	1380	1360	1320	1330	1350	1320	1300	1280	1320
8	1420	1450	1460	1380	1350	1320	1330	1330	1300	1300	1280	1320
9	1430	1440	1440	1380	1360	1390	1320	1320	1310	1300	1290	1330
10	1420	1410	1420	1380	1360	1320	1300	1320	1350	1300	1280	1320
11	1400	1390	1400	1360	1360	1290	1280	1330	1370	1280	1280	1300
12	1380	1410	1380	1370	1340	1320	1300	1350	1330	1270	1300	1300
13	1360	1450	1360	1360	1360	1280	1300	1360	1320	1260	1290	1280
14	1360	1480	1360	1400	1340	1290	1320	1360	1320	1290	1280	1280
15	1360	1470	1360	1440	1340	1290	1320	1340	1310	1300	1270	1310
16	1390	1440	1360	1480	1310	1290	1320	1330	1330	1300	1270	1320
17	1430	1450	1360	1470	1300	1320	1320	1320	1340	1260	1290	1330
18	1390	1420	1380	1470	1340	1340	1320	1330	1320	1280	1300	1310
19	1380	1420	1380	1480	1360	1320	1320	1340	1290	1280	1290	1300
20	1370	1420	1410	1460	1360	1280	1310	1350	1300	1300	1300	1290
21	1410	1430	1410	1450	1350	1280	1310	1360	1300	1300	1300	1300
22	1430	1420	1400	1450	1340	1290	1320	1340	1280	1300	1280	1340
23	1430	1420	1400	1480	1340	1290	1320	1330	1300	1290	1280	1340
24	1470	1420	1430	1450	1340	1310	1310	1320	1300	1260	1300	1350
25	1440	1420	1490	1420	1340	1320	1300	1330	1290	1270	1300	1310
26	1420	1460	1530	1400	1360	1310	1320	1340	1300	1280	1290	1290
27	1400	1510	1470	1420	1360	1300	1340	1370	1300	1300	1290	1300
28	1400	1540	1430	1420	1340	1300	1340	1370	1290	1300	1280	1310
29	1460	1540	1420	1420	1340	1300	1360	1320	1300	1310	1270	1330
30	1490	1540	1400	1430	---	1290	1380	1320	1320	1300	1300	1350
31	1480	---	1400	1430	---	1320	---	1320	---	1290	1330	---
MONTH	1410	1460	1440	1420	1360	1310	1320	1340	1320	1290	1290	1320

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, Yuma County, Ariz., at gaging station 0.6 mile downstream from intake at east end of Imperial Dam.

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1972 (partial-record station).
Water temperatures: January 1956 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 31.5°C July 30, 31, Aug. 1; minimum, 9.5°C on many days during December to 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. 26 to Dec. 3. No flow Nov. 27 to Dec. 2. Temperature recorder inoperative Sept. 20-30. Unpublished chemical analyses (partial-record) for water years 1965-67 available from district office in Tucson, Ariz.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.												
20...	1105	994	10	10	99	36	150	5.0	175	0	370	110
JAN.												
19...	1350	500	11	0	100	37	150	7.5	163	0	380	180
APR.												
12...	1410	1740	9.2	10	98	33	140	6.0	180	0	370	130
JULY												
13...	0945	1850	9.9	10	90	33	130	5.5	171	0	330	120

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)	DISSOLVED BORON (B) (UG/L)
OCT.											
20...	.4	.34	904	868	1.23	400	250	3.3	1390	8.1	200
JAN.											
19...	.5	.04	986	947	1.34	400	270	3.3	1500	8.1	230
APR.											
12...	.5	.31	868	877	1.18	380	230	3.1	1330	8.0	200
JULY											
13...	.6	.27	838	804	1.14	360	220	3.0	1270	8.1	170

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	20.5	14.0	13.5	---	---	11.0	11.0	9.5	9.5	15.5	15.5
2	20.5	20.0	13.5	13.5	---	---	11.0	11.0	9.5	9.5	15.5	15.5
3	20.0	20.0	13.5	13.5	---	---	11.0	11.0	9.5	9.5	15.5	15.5
4	20.0	20.0	14.0	13.5	12.0	12.0	11.0	11.0	9.5	9.5	16.5	15.5
5	21.0	20.0	14.5	14.0	12.0	11.5	11.0	11.0	10.0	9.5	18.0	16.5
6	22.0	21.0	15.0	14.5	11.5	11.5	11.0	11.0	10.5	10.5	18.0	18.0
7	23.0	22.0	15.0	15.0	11.5	11.5	11.0	11.0	11.0	10.5	18.0	18.0
8	24.0	23.0	15.0	15.0	11.5	10.5	11.0	11.0	11.0	11.0	18.5	18.0
9	25.0	24.0	15.5	15.0	10.5	10.0	11.0	11.0	11.0	11.0	18.5	18.5
10	25.0	25.0	15.5	15.5	10.5	9.5	11.0	11.0	11.5	11.0	19.0	18.5
11	25.0	24.5	15.5	15.5	9.5	9.5	11.0	11.0	11.5	11.5	19.0	18.5
12	25.0	24.5	15.5	15.0	9.5	9.5	11.0	11.0	12.0	11.5	19.0	18.5
13	25.0	24.5	15.0	15.0	9.5	9.5	11.0	11.0	12.0	11.5	19.0	18.5
14	24.5	24.0	15.0	15.0	9.5	9.5	11.0	10.5	12.0	11.5	19.0	18.5
15	24.0	23.5	15.0	14.5	9.5	9.5	10.5	10.5	12.0	12.0	19.0	18.5
16	23.5	21.0	14.5	14.0	9.5	9.5	10.5	10.5	13.0	12.0	19.0	18.5
17	21.0	20.0	14.0	13.0	9.5	9.5	10.5	10.5	13.0	13.0	19.0	19.0
18	20.0	18.5	13.0	13.0	10.0	9.5	10.5	10.5	14.0	13.0	19.5	19.0
19	18.5	18.0	13.0	11.5	10.0	10.0	10.5	10.5	14.5	14.0	20.0	19.5
20	18.0	18.0	11.5	11.0	10.0	10.0	10.5	10.5	14.5	14.5	20.0	20.0
21	18.5	18.0	11.0	11.0	10.0	10.0	10.5	10.0	14.5	14.5	20.5	20.0
22	18.5	18.0	11.0	11.0	10.0	10.0	10.0	10.0	15.0	14.5	20.0	20.0
23	19.0	18.5	11.5	11.0	11.0	10.0	10.0	10.0	15.5	15.0	20.0	20.0
24	19.0	18.5	11.5	11.5	13.0	11.0	10.0	10.0	15.5	15.5	20.0	20.0
25	18.5	17.0	11.5	10.5	13.5	12.0	10.0	10.0	15.5	15.5	20.0	20.0
26	17.0	17.0	---	---	13.5	12.0	10.0	10.0	15.5	15.5	20.0	19.5
27	17.0	17.0	---	---	13.0	13.0	10.0	10.0	15.5	15.5	19.5	19.0
28	17.0	16.5	---	---	13.0	13.0	10.0	9.5	15.5	15.5	19.0	19.0
29	16.5	16.0	---	---	13.0	13.0	10.0	9.5	15.5	15.5	19.0	19.0
30	16.0	15.0	---	---	13.0	12.0	10.0	9.5	---	---	19.0	17.0
31	15.0	14.0	---	---	12.0	11.0	9.5	9.5	---	---	18.0	17.0
MONTH	25.0	14.0	15.5	10.5	13.5	9.5	11.0	9.5	15.5	9.5	20.5	15.5

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

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 mile upstream from Punchbowl Canyon, and 1.9 miles southeast of Valyermo.
DRAINAGE AREA.--22.9 sq mi.
PERIOD OF RECORD.--Water temperatures: January 1962 to September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 24.0°C July 15, 31; minimum recorded, 5.5°C Feb. 8.
Period of record:
Water temperatures: Maximum, 24.0°C Aug. 19, 26, 1970, July 15, 31, 1972; minimum recorded, 1.0°C Feb. 1-4, 1969.
REMARKS.--No record available Dec. 24 to Jan. 16, temperature probe destroyed in flood Dec. 24. No record available Apr. 18-26, clock stopped; Aug. 4-16, temperature probe destroyed by vandals.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	10.0	17.5	11.0	19.5	14.0	22.5	15.0	23.5	16.0	22.5	15.5
2	15.0	10.5	18.0	11.5	20.5	14.0	22.0	15.0	23.0	15.5	22.0	16.0
3	15.5	10.0	18.0	11.5	20.0	14.0	22.5	14.5	23.0	15.0	21.0	16.0
4	16.5	11.0	17.5	11.5	21.0	13.5	22.0	15.5	---	---	21.5	16.5
5	14.5	11.0	17.5	11.0	19.0	14.0	23.0	15.5	---	---	21.5	17.0
6	15.5	10.5	17.5	10.5	19.5	14.0	22.0	16.0	---	---	21.0	16.5
7	16.0	10.0	17.5	10.5	16.0	14.0	20.5	15.0	---	---	20.5	16.0
8	---	---	18.0	11.0	20.5	14.5	21.5	15.5	---	---	20.5	16.0
9	---	---	17.5	11.0	20.0	13.5	22.5	15.0	---	---	21.5	15.5
10	---	---	18.0	11.0	20.0	12.5	22.5	15.0	---	---	21.0	14.5
11	---	---	18.5	11.5	20.0	12.5	22.5	15.0	---	---	20.5	14.5
12	---	---	18.5	12.0	21.0	13.0	23.0	15.0	---	---	20.0	13.0
13	---	---	19.0	12.0	20.0	13.0	23.0	15.5	---	---	20.5	13.5
14	---	---	19.0	12.0	21.0	13.0	23.5	15.5	---	---	20.5	14.0
15	---	---	19.0	12.0	21.5	13.5	24.0	16.0	---	---	20.5	14.0
16	---	---	18.5	12.0	21.5	13.5	23.5	16.0	---	---	21.0	14.0
17	---	---	18.5	11.5	21.5	13.5	23.5	16.5	18.5	16.5	21.0	14.5
18	---	---	17.5	11.5	21.5	13.5	23.0	17.5	22.0	15.0	21.0	15.0
19	---	---	14.0	10.5	20.5	14.0	22.5	16.0	22.0	15.0	19.5	14.0
20	---	---	16.5	10.5	20.0	14.0	22.5	15.5	22.0	14.5	20.0	13.5
21	---	---	17.5	10.5	22.0	14.0	22.0	14.0	22.5	15.0	20.0	14.0
22	---	---	18.5	11.0	21.0	14.0	22.0	14.0	22.5	15.5	19.0	14.0
23	---	---	19.0	11.5	20.5	13.5	22.5	14.5	22.5	15.5	20.0	14.0
24	---	---	19.0	11.5	21.0	13.0	22.5	15.0	22.5	15.5	17.0	14.0
25	---	---	19.0	12.0	20.5	13.0	22.0	15.5	21.5	15.5	19.0	13.0
26	---	---	19.0	12.0	21.0	12.5	22.5	15.5	22.5	16.5	19.5	13.5
27	17.0	11.5	17.5	12.5	21.0	13.0	23.0	15.5	20.5	16.5	19.5	14.0
28	17.5	10.5	18.0	13.0	21.5	13.5	22.5	16.0	20.5	16.5	20.0	14.5
29	17.0	10.5	20.0	13.0	22.0	14.0	21.5	16.5	19.5	15.5	18.5	14.5
30	17.0	10.5	19.5	15.0	22.5	15.0	22.5	16.5	20.5	17.0	20.5	14.5
31	---	---	21.0	14.0	---	---	24.0	16.5	22.5	16.5	---	---
MONTH	---	---	21.0	10.5	22.5	12.5	24.0	14.0	---	---	22.5	13.0

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 September 1972.

REMARKS.--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 1971 TO SEPTEMBER 1972

DATE	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)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)
OCT.										
19...	685	22	40	24	4.6	31	3.6	111	26	14
NOV.										
16...	587	22	60	24	4.6	32	3.6	109	29	13
DEC.										
14...	572	21	60	24	4.8	32	3.5	109	26	12
JAN.										
18...	548	21	30	26	5.4	32	3.3	114	28	13
FEB.										
22...	581	23	40	26	5.8	30	3.2	105	37	12
MAR.										
21...	637	24	20	26	5.6	31	3.2	109	31	13
APR.										
18...	626	23	60	25	5.6	37	3.7	115	26	16
MAY										
16...	634	23	100	25	5.0	36	3.7	118	21	15
JUNE										
20...	676	23	100	26	4.1	35	3.5	120	24	16
JULY										
18...	750	22	30	25	4.6	34	3.9	115	24	16
AUG.										
22...	771	24	30	25	5.1	33	4.1	119	21	16
SEP.										
19...	695	26	100	24	5.4	35	3.6	113	19	17

DATE	DIS-SOLVED FLUO-RIDE (F) (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)
OCT.									
19...	.5	.23	1.0	.01	.00	.00	.32	.10	79
NOV.									
16...	.6	.23	1.0	.00	.00	.00	.16	.07	78
DEC.									
14...	.4	.16	.70	.00	.00	.00	.12	.04	79
JAN.									
18...	.6	.23	1.0	.00	.00	.00	.20	.05	86
FEB.									
22...	.4	.14	.60	.00	.00	.00	.24	.04	88
MAR.									
21...	.5	.23	1.0	.00	.00	.00	.24	.07	88
APR.									
18...	.7	.20	.90	.00	.00	.00	.24	.06	85
MAY									
16...	.6	.16	.70	.00	.00	.00	.28	.06	83
JUNE									
20...	.6	.20	.90	.00	.00	.00	.24	.10	83
JULY									
18...	.5	.14	.60	.00	.00	.00	.56	.07	81
AUG.									
22...	.6	.14	.60	.00	.00	.00	.32	.12	83
SEP.									
19...	5.0	.18	.80	.00	.00	.00	.32	.12	83

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT.								
19...	45	1.5	309	8.3	18.0	.9	30	410
NOV.								
16...	45	1.6	307	8.2	13.0	.6	30	330
DEC.								
14...	45	1.6	320	8.2	9.0	2.6	20	330
JAN.								
18...	43	1.5	328	8.3	8.0	1.6	30	360
FEB.								
22...	41	1.4	322	8.1	10.5	1.5	<10	--
MAR.								
21...	42	1.4	328	8.3	15.0	.8	20	380
APR.								
18...	47	1.7	340	8.4	14.0	.4	10	530
MAY								
16...	47	1.7	333	8.2	18.5	.1	30	400
JUNE								
20...	47	1.7	341	8.3	21.0	1.1	20	450
JULY								
18...	46	1.6	326	--	24.0	.1	<10	510
AUG.								
22...	45	1.6	326	8.3	24.0	2.0	20	520
SEP.								
19...	47	1.7	325	8.3	22.0	1.6	10	530

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-CHARGE (CFS)	ALKA-LINITY AS CACO3 (MG/L)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.					
19...	685	113	--	18.0	9.8
NOV.					
16...	587	108	8.3	13.0	8.6
DEC.					
14...	572	135	8.3	9.0	6.6
JAN.					
18...	548	115	8.5	8.0	12.6
FEB.					
22...	581	105	--	10.5	12.2
MAR.					
21...	637	110	8.7	15.0	11.0
APR.					
18...	626	115	8.6	14.0	10.8
MAY					
16...	634	118	8.6	18.5	9.8
JUNE					
20...	676	118	8.5	21.0	9.2
JULY					
18...	750	118	8.4	24.0	8.8
AUG.					
22...	771	120	8.4	24.0	9.0
SEP.					
19...	695	113	7.9	22.0	9.6

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, Eldorado National Forest, at gaging station on left bank 60 ft upstream from Grass Lake Way, 300 ft upstream from confluence with Upper Truckee River, and 3.8 miles south of Meyers.

DRAINAGE AREA.--6.99 sq mi.

PERIOD OF RECORD.--Water temperatures: November 1971 to September 1972.
Sediment records: October 1971 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 113 mg/l June 4; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 22 tons June 4; minimum daily, 0 tons on several days.

TEMPERATURE (°C) OF WATER, NOVEMBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
MAY										
08...	1745	--	26	13	.91	35	35	45	70	100
17...	1200	7.0	29	16	1.3	31	31	100	--	--
31...	1450	13.5	34	20	1.8	32	--	--	--	--
JUNE										
14...	1250	11.5	22	7	.42	50	--	--	--	--

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	2.4	2	.01	2.0	2	.01	4.2	2	.02
2	2.4	2	.01	2.4	2	.01	4.0	2	.02
3	2.4	2	.01	2.6	2	.01	4.0	2	.02
4	2.4	2	.01	2.6	2	.01	3.4	2	.02
5	2.4	2	.01	2.6	2	.01	3.4	2	.02
6	2.0	2	.01	2.6	2	.01	3.4	1	.01
7	2.0	2	.01	2.6	2	.01	3.4	1	.01
8	2.0	2	.01	2.4	2	.01	3.4	1	.01
9	2.0	2	.01	2.4	2	.01	3.4	1	.01
10	2.0	2	.01	2.6	2	.01	3.4	1	.01
11	1.8	2	.01	11	21	.81	3.2	1	.01
12	1.8	2	.01	6.2	8	.13	3.0	1	.01
13	1.8	2	.01	4.4	3	.04	3.2	1	.01
14	1.8	2	.01	4.0	3	.03	3.4	1	.01
15	1.8	2	.01	4.0	2	.02	3.4	1	.01
16	2.0	4	.02	3.6	2	.02	3.4	1	.01
17	2.0	2	.01	3.8	2	.02	3.4	1	.01
18	2.0	2	.01	3.6	2	.02	3.4	1	.01
19	2.0	2	.01	3.4	2	.02	3.2	1	.01
20	2.0	2	.01	3.4	2	.02	3.2	1	.01
21	2.0	2	.01	3.4	2	.02	3.2	1	.01
22	2.0	2	.01	3.4	2	.02	3.6	1	.01
23	2.0	2	.01	3.4	2	.02	3.2	1	.01
24	2.0	2	.01	3.4	2	.02	3.2	1	.01
25	2.0	2	.01	3.4	2	.02	2.8	1	.01
26	1.8	2	.01	4.7	10	.19	2.7	1	.01
27	1.8	2	.01	6.0	4	.06	2.7	1	.01
28	1.8	2	.01	6.0	2	.03	2.7	1	.01
29	1.8	2	.01	4.4	2	.02	2.7	1	.01
30	1.8	2	.01	4.0	2	.02	2.6	1	.01
31	1.8	2	.01	--	--	--	2.6	1	.01
TOTAL	61.8	--	.32	114.3	--	1.65	100.8	--	.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	2.6	1	.01	2.6	1	.01	3.2	2	.02
2	2.6	1	.01	2.6	1	.01	4.4	5	.06
3	2.6	1	.01	2.6	1	.01	8.2	17	.41
4	2.6	1	.01	2.6	1	.01	6.5	4	.07
5	2.6	1	.01	2.6	1	.01	6.8	5	.09
6	2.6	1	.01	2.6	1	.01	9.3	7	.18
7	2.4	1	.01	2.6	1	.01	11	7	.21
8	2.4	1	.01	2.6	1	.01	13	8	.28
9	2.4	1	.01	2.6	1	.01	15	8	.32
10	2.6	1	.01	2.6	2	.01	16	9	.39
11	2.6	1	.01	2.6	2	.01	17	9	.41
12	2.7	1	.01	2.6	2	.01	18	9	.44
13	2.8	1	.01	2.7	2	.01	19	12	.62
14	2.8	1	.01	2.7	2	.01	20	13	.70
15	2.7	1	.01	2.7	2	.01	21	13	.74
16	2.7	1	.01	2.7	2	.01	23	16	1.2
17	2.7	1	.01	2.7	2	.01	26	17	1.2
18	2.7	1	.01	2.7	2	.01	26	14	.98
19	2.7	2	.01	2.8	2	.02	25	11	.74
20	2.7	2	.01	2.8	2	.02	26	12	.84
21	2.8	2	.02	2.8	2	.02	27	13	.95
22	2.8	2	.02	2.8	2	.02	22	11	.65
23	2.8	2	.02	2.8	2	.02	20	10	.54
24	2.7	2	.01	2.8	2	.02	19	9	.46
25	2.7	2	.01	2.8	2	.02	18	8	.39
26	2.7	2	.01	2.8	2	.02	17	7	.32
27	2.7	2	.01	2.8	2	.02	16	6	.26
28	2.7	2	.01	3.4	2	.02	16	5	.22
29	2.7	2	.01	3.4	2	.02	15	5	.20
30	2.7	2	.01	--	--	--	14	5	.19
31	2.7	2	.01	--	--	--	14	6	.23
TOTAL	82.5	--	.34	79.4	--	.40	512.4	--	14.31

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	14	6	.23	24	8	.52	36	15	1.5
2	16	7	.30	26	7	.49	36	16	1.6
3	18	8	.39	27	8	.58	33	16	1.4
4	19	7	.36	29	10	.78	44	113	22
5	19	6	.31	29	13	1.0	44	68	8.8
6	18	6	.29	29	12	.94	44	30	3.6
7	17	6	.28	26	10	.70	38	23	2.4
8	16	6	.26	25	9	.61	36	19	1.8
9	16	6	.26	25	8	.54	34	10	.92
10	16	6	.26	24	8	.52	31	10	.84
11	16	6	.26	25	8	.54	27	9	.66
12	11	6	.18	27	9	.66		8	.52
13	10	6	.16	28	12	.91	[illegible]	8	.50
14	12	9	.29	31	15	1.3	21	7	.40
15	17	10	.46	32	20	1.7	21	7	.40
16	18	8	.39	32	19	1.6	21	7	.40
17	18	6	.29	29	18	1.4	20	9	.49
18	17	4	.18	27	16	1.2	21	7	.40
19	16	4	.17	27	14	1.0	20	7	.38
20	16	4	.17	25	15	1.0	19	7	.36
21	17	4	.18	23	12	.75	18	6	.29
22	18	4	.19	23	10	.62	17	6	.28
23	19	4	.21	24	11	.71	17	6	.28
24	19	4	.21	24	13	.84	16	5	.22
25	17	4	.18	26	10	.70	16	5	.22
26	18	4	.19	29	11	.86	16	5	.22
27	20	8	.43	32	13	1.1	15	5	.20
28	22	10	.59	33	14	1.2	13	5	.18
29	23	9	.56	35	15	1.4	13	5	.18
30	24	9	.58	35	15	1.4	10	5	.14
31	--	--	--	36	15	1.5	--	--	--
TOTAL	517	--	8.81	867	--	29.07	744	--	51.58

	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	10	4	.11	3.2	3	.03	2.1	2	.01
2	9.3	4	.10	2.8	3	.02	2.4	2	.01
3	7.6	4	.08	2.8	3	.02	2.1	2	.01
4	7.2	4	.08	2.7	5	.04	2.0	4	.02
5	6.8	4	.07	2.7	4	.03	2.4	2	.01
6	6.2	3	.05	2.6	4	.03	2.2	2	.01
7	6.0	3	.05	2.4	4	.03	2.0	2	.01
8	5.7	3	.05	2.2	5	.03	2.0	2	.01
9	5.7	3	.05	2.1	4	.02	1.9	2	.01
10	5.7	3	.05	2.0	4	.02	1.9	1	.01
11	5.7	3	.05	1.9	4	.02	1.9	1	.01
12	5.4	3	.04	1.9	4	.02	1.9	1	.01
13	5.0	4	.05	1.8	3	.01	1.8	1	0
14	4.4	4	.05	1.8	2	.01	1.8	1	0
15	4.0	4	.04	1.7	2	.01	1.8	1	0
16	4.0	4	.04	1.7	3	.01	1.8	1	0
17	4.2	4	.05	1.7	4	.02	1.8	1	0
18	4.0	4	.04	1.8	4	.02	1.8	1	0
19	4.0	4	.04	1.7	4	.02	1.8	1	0
20	4.0	4	.04	1.7	4	.02	1.9	1	.01
21	4.0	4	.04	1.6	4	.02	1.9	1	.01
22	4.0	4	.04	1.6	4	.02	1.9	1	.01
23	4.0	4	.04	1.6	3	.01	1.9	1	.01
24	3.8	4	.04	1.6	2	.01	1.9	1	.01
25	3.6	4	.04	1.6	1	0	1.9	2	.01
26	3.4	4	.04	1.5	1	0	3.4	7	.06
27	3.2	4	.03	1.5	1	0	4.2	7	.08
28	3.2	3	.03	1.5	1	0	2.8	3	.02
29	3.0	3	.02	1.7	3	.01	2.4	3	.02
30	3.2	3	.03	2.2	2	.01	2.4	3	.02
31	3.2	3	.03	2.0	2	.01	--	--	--
TOTAL	153.5	--	1.51	61.6	--	.52	64.0	--	.39

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 3358.3
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 109.26

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. 50 highway bridge, 1.0 mile northeast of South Lake Tahoe Post Office, and 1.4 miles upstream from Lake Tahoe.

DRAINAGE AREA.--54.8 sq mi.

PERIOD OF RECORD.--Water temperatures: November 1971 to September 1972.
Sediment records: October 1971 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 200 mg/l Mar. 3; minimum daily, 2 mg/l on many days.
Sediment discharge: Maximum daily, 87 tons Mar. 3; minimum daily, 0.05 ton on several days.

TEMPERATURE (°C) OF WATER, NOVEMBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	4.5	---	---	0.0	---	---	---	---	---	18.5	17.0
2	---	---	---	---	---	---	---	---	9.0	---	---	---
3	---	---	---	0.0	---	4.0	9.5	---	---	14.5	---	---
4	---	---	0.0	---	---	1.0	---	---	---	---	21.5	14.5
5	---	---	---	---	---	---	3.0	9.5	---	---	---	---
6	---	---	1.0	---	---	2.0	6.0	---	14.0	---	---	---
7	---	---	---	---	0.0	1.0	---	---	---	15.0	---	17.0
8	---	---	---	---	---	---	---	---	11.5	---	19.0	---
9	---	3.5	---	---	---	---	---	---	9.5	---	---	---
10	---	---	---	---	---	5.0	6.0	5.0	---	15.5	---	---
11	---	---	---	---	0.0	---	---	---	---	---	18.0	12.5
12	---	---	---	---	---	4.0	---	9.5	14.5	---	---	---
13	---	---	---	---	---	---	---	---	9.0	---	---	---
14	---	---	0.0	---	0.0	1.0	7.0	---	15.5	20.0	17.5	13.0
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	0.0	---	3.0	---	9.0	12.0	---	---	---
17	---	---	---	---	0.0	---	---	9.5	---	---	---	---
18	---	---	---	---	---	---	8.5	---	---	---	20.0	13.0
19	---	---	---	---	---	6.0	---	4.5	15.0	---	---	---
20	---	---	0.0	0.0	---	---	10.5	6.0	---	16.5	---	---
21	---	---	---	---	1.0	5.0	6.0	---	---	---	15.5	---
22	---	---	---	---	---	---	---	5.5	---	---	---	---
23	---	---	---	---	---	3.0	---	---	11.0	---	---	---
24	---	---	---	---	---	---	---	5.5	---	15.0	---	---
25	---	---	---	0.0	---	---	---	9.0	---	---	15.5	10.0
26	---	---	---	---	---	---	---	7.0	18.0	---	---	9.5
27	---	---	---	---	---	4.0	---	13.0	---	---	---	8.5
28	---	---	---	0.5	1.0	---	8.5	---	---	---	---	7.5
29	---	---	---	---	---	4.0	---	8.5	---	---	21.5	---
30	---	---	---	---	---	---	---	---	18.0	---	17.0	---
31	---	---	---	---	---	---	---	11.5	---	---	18.0	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	4	.17	14	4	.15	38	10	1.0
2	17	4	.18	18	4	.19	37	10	1.0
3	17	4	.18	18	4	.19	35	12	1.1
4	16	4	.17	17	4	.18	33	13	1.2
5	16	4	.17	16	4	.17	31	8	.67
6	16	4	.17	15	4	.16	32	3	.26
7	15	4	.16	15	4	.16	32	3	.26
8	14	3	.11	14	4	.15	32	3	.26
9	14	3	.11	14	4	.15	32	4	.35
10	14	3	.11	16	4	.17	33	4	.36
11	14	3	.11	48	15	30	33	4	.36
12	14	3	.11	50	40	7.2	34	5	.46
13	13	3	.11	26	8	.56	34	6	.55
14	13	3	.11	21	6	.34	34	7	.64
15	13	3	.11	20	5	.27	34	6	.55
16	14	15	.57	20	3	.16	34	6	.55
17	14	18	.68	20	3	.16	36	5	.49
18	15	12	.49	20	3	.16	39	4	.42
19	15	10	.41	20	3	.16	42	3	.34
20	15	10	.41	20	3	.16	45	2	.24
21	15	8	.32	20	3	.16	46	4	.50
22	15	6	.24	20	3	.16	48	6	.78
23	15	5	.20	20	3	.16	52	8	1.1
24	15	8	.32	20	4	.22	54	10	1.5
25	15	6	.24	20	4	.22	56	12	1.8
26	15	5	.20	28	21	2.7	48	9	1.2
27	15	4	.16	48	42	5.7	44	6	.71
28	15	4	.16	57	30	4.6	41	4	.44
29	15	4	.16	39	18	1.9	37	3	.30
30	15	4	.16	39	14	1.5	35	3	.28
31	14	4	.15	--	--	--	34	3	.28
TOTAL	459	--	6.95	733	--	58.16	1195	--	19.95

	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	2	.18	27	4	.29	52	8	1.1
2	35	2	.19	27	4	.29	70	60	13
3	36	2	.19	26	4	.28	149	200	87
4	35	2	.19	26	4	.28	195	157	82
5	33	2	.18	26	4	.28	192	125	65
6	33	3	.27	26	4	.28	187	45	23
7	32	3	.26	26	4	.28	183	35	17
8	32	3	.26	26	5	.35	188	30	15
9	32	3	.26	27	6	.44	201	25	14
10	32	3	.26	27	7	.51	218	30	18
11	31	3	.25	28	8	.60	209	25	14
12	31	3	.25	30	8	.65	192	15	7.8
13	31	3	.25	30	9	.73	192	14	7.3
14	31	4	.33	31	10	.84	192	16	8.3
15	31	4	.33	32	8	.69	185	12	6.0
16	30	4	.32	32	7	.60	187	11	5.6
17	30	4	.32	33	6	.53	205	11	6.1
18	30	4	.32	35	6	.57	216	12	7.0
19	30	3	.24	37	8	.80	199	12	6.4
20	30	3	.24	39	9	.95	203	15	8.2
21	29	3	.23	43	13	1.5	218	17	10
22	29	3	.23	45	12	1.5	214	20	12
23	29	3	.23	43	10	1.2	196	25	13
24	29	3	.23	41	9	1.0	164	15	6.6
25	28	3	.23	33	8	.71	207	25	14
26	28	3	.23	33	7	.62	161	10	4.3
27	28	4	.30	36	8	.78	147	8	3.2
28	28	4	.30	48	12	1.6	134	8	2.9
29	28	4	.30	72	--	--	125	10	3.4
30	27	4	.29	--	--	--	118	9	2.9
31	27	4	.29	--	--	--	116	8	2.5
TOTAL	949	--	7.95	985	--	19.15	5415	--	486.6

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	114	7	2.2	212	27	15	441	30	36
2	121	6	2.0	244	27	18	424	28	32
3	118	5	1.6	278	30	23	384	26	27
4	153	16	6.6	290	30	23	355	25	24
5	220	49	32	298	28	23	429	20	23
6	182	20	10	315	25	21	424	18	21
7	148	8	3.2	294	20	16	390	18	19
8	132	6	2.1	260	15	11	417	22	25
9	122	4	1.3	264	15	11	402	26	28
10	114	3	.92	256	13	9.0	333	20	18
11	118	4	1.3	268	18	13	250	16	11
12	120	6	1.9	236	11	7.0	207	14	7.8
13	194	20	12	258	13	9.1	178	14	6.7
14	118	20	6.4	300	20	16	173	16	7.5
15	125	20	6.8	353	40	38	169	16	7.3
16	148	18	7.2	355	35	34	169	16	7.3
17	142	10	3.8	324	18	16	169	17	7.8
18	125	8	2.7	290	16	13	174	18	8.5
19	113	6	1.8	274	18	13	173	19	8.9
20	108	4	1.2	230	14	8.7	163	16	7.0
21	109	4	1.2	176	12	5.7	150	13	5.3
22	118	5	1.6	150	10	4.1	136	10	3.7
23	131	10	3.5	142	9	3.5	129	7	2.4
24	150	15	6.1	168	16	7.3	114	6	1.8
25	131	14	5.0	197	14	7.4	102	5	1.4
26	125	12	4.1	246	22	15	94	5	1.3
27	140	14	5.3	300	30	24	91	5	1.2
28	174	15	7.0	362	38	37	89	4	.96
29	188	22	11	405	40	44	88	4	.95
30	188	25	13	410	40	44	83	4	.90
31	--	--	--	412	38	42	--	--	--
TOTAL	4189	--	164.82	8567	--	571.8	6900	--	352.71

	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	71	4	.77	16	3	.13	12	15	.49
2	61	4	.66	16	3	.13	12	14	.45
3	61	4	.66	15	4	.16	13	16	.56
4	58	4	.63	14	4	.15	12	16	.52
5	54	4	.58	12	4	.13	13	10	.35
6	48	4	.52	13	3	.11	12	6	.19
7	41	4	.44	13	3	.11	12	3	.10
8	36	3	.29	13	3	.11	10	3	.08
9	34	3	.28	13	3	.11	10	2	.05
10	33	2	.18	12	4	.13	9.9	2	.05
11	33	2	.18	11	4	.12	9.3	2	.05
12	34	3	.28	11	4	.12	9.6	2	.05
13	31	4	.33	11	4	.12	9.9	2	.05
14	28	5	.38	12	4	.13	9.9	2	.05
15	28	5	.38	11	4	.12	9.9	2	.05
16	28	4	.30	10	3	.08	9.6	2	.05
17	28	4	.30	9.9	3	.08	9.3	2	.05
18	27	4	.29	9.6	3	.08	9.3	2	.05
19	25	4	.27	9.3	3	.08	9.3	2	.05
20	24	4	.26	9.6	2	.05	8.8	2	.05
21	20	3	.16	9.6	2	.05	8.8	2	.05
22	21	3	.17	8.8	2	.05	8.5	3	.07
23	20	2	.11	8.8	2	.05	9.0	3	.07
24	20	2	.11	8.8	3	.07	9.3	3	.08
25	19	2	.10	8.5	3	.07	9.3	3	.08
26	18	2	.10	8.5	3	.07	12	5	.16
27	18	2	.10	8.5	4	.09	22	10	.59
28	18	3	.15	9.0	4	.10	18	6	.29
29	17	3	.14	9.9	4	.11	15	4	.16
30	17	3	.14	13	142	8.0	14	4	.15
31	17	3	.14	11	90	2.7	--	--	--
TOTAL	988	--	9.40	345.8	--	13.61	336.7	--	5.04

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 31062.5
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 1716.14

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMP-ERATURE (DEG C)	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.										
11...	1520	--	52	270	38	99	100	--	--	--
APR.										
10...	1230	6.0	116	3	.94	68	--	--	--	--
MAY										
08...	2355	--	276	14	10	39	--	--	--	--
12...	1400	9.5	226	11	6.7	50	50	100	--	--
17...	1420	9.5	318	13	11	36	50	80	100	--
JUNE										
13...	0850	9.0	188	15	7.6	39	44	70	100	--
16...	1400	14.0	166	19	8.5	22	27	52	94	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMP-ERATURE (DEG C)	NUMBER OF SAM-PLING POINTS	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
MAY							
12...	1450	9.5	4	218	1	7	28
JULY							
03...	1140	14.5	5	62	1	7	22

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
MAY						
12...	38	53	75	96	100	--
JULY						
03...	35	47	65	90	99	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 mile northwest of Bay View Guard Station, and 4.0 miles northwest of Camp Richardson.

DRAINAGE AREA.--6.38 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1972.
Sediment records: October 1971 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 20 mg/l Mar. 3; minimum daily, 0 mg/l on many days.
Sediment discharge: Maximum daily, 1.5 tons Mar. 3; minimum daily, 0 tons on many days.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	0.0	---	---	---	---	---	16.5	14.0
2	---	---	---	---	---	---	---	---	7.0	---	---	---
3	---	---	---	---	---	1.0	4.0	---	---	15.5	---	---
4	---	---	0.0	0.0	---	2.0	---	---	---	---	16.5	14.0
5	---	---	---	---	---	---	1.5	4.0	---	---	---	---
6	---	---	0.0	---	---	---	2.5	---	9.5	---	---	---
7	---	---	---	---	0.0	3.0	---	---	---	14.5	---	14.5
8	---	---	---	---	---	---	---	---	8.5	---	18.0	---
9	---	3.0	---	---	---	---	---	---	8.0	---	---	---
10	---	---	---	---	---	---	2.0	---	---	14.5	---	---
11	---	---	---	---	0.0	---	---	5.0	---	---	16.5	9.5
12	---	---	---	---	---	2.5	---	---	9.0	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	0.0	---	0.5	2.5	2.0	---	10.0	18.0	14.0	9.5
15	---	---	---	---	---	---	---	4.5	---	---	---	---
16	---	---	---	0.0	---	1.5	---	5.5	11.5	---	---	---
17	---	---	---	---	0.0	---	---	4.0	---	---	---	---
18	---	---	---	---	---	---	1.5	---	---	18.0	---	10.5
19	---	---	---	---	---	2.0	---	4.0	13.5	---	---	---
20	---	---	0.0	0.5	---	---	4.0	4.0	---	---	---	---
21	---	---	---	---	2.0	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	7.0	---	---	12.5	---
23	---	---	---	---	---	2.0	---	---	11.0	---	---	---
24	---	---	---	---	---	---	---	4.5	---	---	---	---
25	---	---	---	0.0	---	---	---	5.5	---	15.0	12.0	8.0
26	---	---	---	---	---	---	---	6.0	12.5	---	---	9.0
27	---	---	---	---	---	---	---	7.5	---	---	---	8.0
28	0.0	---	---	---	2.0	---	2.5	---	---	---	---	11.0
29	---	---	---	---	---	1.0	---	6.5	---	---	16.5	---
30	---	---	---	---	---	---	---	---	16.0	---	15.5	---
31	---	---	---	---	---	---	---	7.5	---	---	15.5	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.50	1	0	.62	0	0	6.8	0	0
2	.50	1	0	.62	0	0	5.8	0	0
3	.50	1	0	.62	0	0	5.8	0	0
4	.50	1	0	.62	0	0	5.8	0	0
5	.50	1	0	.59	0	0	5.2	0	0
6	.50	1	0	.56	0	0	5.4	1	.01
7	.50	1	0	.56	0	0	5.4	1	.01
8	.50	1	0	.50	0	0	5.6	1	.02
9	.50	1	0	.44	0	0	4.9	0	0
10	.50	1	0	.35	0	0	5.2	0	0
11	.50	1	0	7.7	2	.04	5.8	0	0
12	.50	1	0	26	1	.07	8.2	1	.02
13	.50	1	0	16	1	.04	9.4	1	.03
14	.50	1	0	10	1	.03	8.0	0	0
15	.50	1	0	7.4	1	.02	7.2	0	0
16	1.4	2	.01	5.4	1	.01	6.0	0	0
17	1.2	1	0	4.7	1	.01	5.1	0	0
18	1.0	1	0	4.1	1	.01	4.3	0	0
19	.82	1	0	3.5	0	0	4.0	0	0
20	.71	1	0	2.8	0	0	3.6	0	0
21	.65	1	0	2.7	0	0	3.6	0	0
22	.65	1	0	2.5	0	0	3.5	0	0
23	.65	1	0	2.5	0	0	3.5	0	0
24	.65	1	0	2.7	0	0	3.5	0	0
25	.82	1	0	2.7	0	0	3.5	0	0
26	.82	1	0	7.7	2	.04	3.5	0	0
27	.78	1	0	19	1	.05	3.5	0	0
28	.78	1	0	16	1	.04	3.5	0	0
29	.78	1	0	12	1	.03	3.5	0	0
30	.74	1	0	9.0	1	.02	3.5	0	0
31	.68	1	0	--	--	--	3.8	0	0
TOTAL	20.63	--	.01	169.88	--	.41	156.4	--	.09

	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	3.8	0	0	4.0	0	0	8.2	0	0
2	3.6	0	0	3.5	0	0	10	3	.08
3	3.5	0	0	3.3	0	0	28	20	1.5
4	3.5	0	0	3.2	0	0	40	4	.43
5	3.5	0	0	3.3	0	0	38	3	.31
6	3.2	0	0	3.3	0	0	32	2	.17
7	3.2	0	0	3.5	0	0	30	1	.08
8	3.2	0	0	3.5	0	0	31	1	.08
9	3.2	0	0	3.3	1	.01	34	1	.09
10	3.0	0	0	3.2	1	.01	37	1	.10
11	2.8	0	0	3.2	1	.01	34	1	.09
12	2.8	0	0	3.2	1	.01	29	1	.08
13	2.7	0	0	3.0	0	0	27	1	.07
14	2.7	0	0	3.0	0	0	28	2	.15
15	2.7	0	0	3.0	0	0	26	1	.07
16	2.7	0	0	3.0	1	.01	26	2	.14
17	2.7	0	0	3.0	1	.01	32	2	.17
18	3.1	0	0	3.3	1	.01	34	2	.18
19	3.5	0	0	3.5	1	.01	29	2	.16
20	3.5	0	0	4.3	1	.01	30	2	.16
21	3.5	0	0	4.7	1	.01	35	1	.09
22	3.5	0	0	5.6	1	.02	32	1	.09
23	3.5	1	.01	5.4	1	.01	25	1	.07
24	3.5	1	.01	5.2	0	0	20	1	.05
25	3.5	1	.01	6.4	0	0	22	1	.06
26	3.5	1	.01	7.0	0	0	18	1	.05
27	3.5	1	.01	7.0	0	0	15	0	0
28	3.5	1	.01	8.7	0	0	13	0	0
29	3.5	0	0	10	0	0	11	0	0
30	3.8	0	0	--	--	--	10	0	0
31	3.8	0	0	--	--	--	10	0	0
TOTAL	102.0	--	.06	126.6	--	.13	794.2	--	4.52

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	0	0	43	1	.12	112	2	.60
2	10	0	0	52	2	.28	106	2	.57
3	14	0	0	58	2	.31	90	2	.49
4	20	0	0	62	3	.50	82	2	.44
5	32	1	.09	69	3	.56	84	2	.45
6	27	0	0	67	2	.36	95	3	.77
7	22	0	0	58	2	.31	95	2	.51
8	17	0	0	46	2	.25	92	2	.50
9	14	0	0	45	1	.12	101	1	.27
10	13	0	0	45	1	.12	73	1	.20
11	13	0	0	53	1	.14	49	1	.13
12	14	0	0	62	2	.33	43	1	.12
13	16	1	.04	73	2	.39	49	1	.13
14	15	1	.04	86	2	.46	57	1	.15
15	13	1	.04	93	2	.50	58	0	0
16	14	0	0	90	3	.73	57	0	0
17	15	0	0	74	3	.60	51	0	0
18	13	0	0	61	2	.33	52	1	.14
19	10	0	0	51	2	.28	54	1	.15
20	10	0	0	37	1	.10	49	1	.13
21	11	0	0	28	1	.08	44	1	.12
22	15	0	0	27	1	.07	40	1	.11
23	20	1	.05	38	1	.10	38	1	.10
24	23	1	.06	50	1	.14	34	1	.09
25	18	1	.05	65	1	.18	29	1	.08
26	17	1	.05	83	2	.45	26	1	.07
27	23	1	.06	99	2	.53	27	1	.07
28	37	1	.10	102	3	.83	30	1	.08
29	38	1	.10	104	3	.84	33	1	.09
30	36	1	.10	106	2	.57	32	1	.09
31	--	--	--	110	2	.59	--	--	--
TOTAL	549.7	--	.78	2037	--	11.17	1782	--	6.65

	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	29	1	.08	3.5	0	0	.82	1	0
2	26	1	.07	3.6	0	0	.83	1	0
3	24	1	.06	3.5	0	0	.86	1	0
4	19	1	.05	2.8	0	0	.96	1	0
5	17	0	0	2.2	0	0	1.0	1	0
6	16	0	0	1.9	1	.01	1.0	1	0
7	14	0	0	1.9	1	.01	1.0	1	0
8	12	0	0	1.9	1	.01	.96	1	0
9	9.4	0	0	2.2	1	.01	.86	1	0
10	9.0	0	0	2.4	1	.01	.78	1	0
11	9.2	0	0	1.9	1	.01	.68	1	0
12	10	0	0	1.8	0	0	.65	1	0
13	11	0	0	1.4	0	0	.59	1	0
14	11	0	0	1.3	0	0	.53	1	0
15	10	0	0	1.1	0	0	.65	1	0
16	10	0	0	.96	0	0	.44	1	0
17	11	0	0	.91	0	0	.39	1	0
18	11	1	.03	.86	0	0	.37	1	0
19	9.4	1	.03	.82	0	0	.35	1	0
20	8.2	1	.02	.78	0	0	.33	1	0
21	7.2	1	.02	.71	0	0	.33	1	0
22	6.4	1	.02	.74	0	0	.31	1	0
23	5.4	1	.01	.68	0	0	.29	1	0
24	4.5	1	.01	.68	0	0	.25	1	0
25	4.1	1	.01	.68	0	0	.23	1	0
26	4.0	1	.01	.65	0	0	.43	2	0
27	3.8	1	.01	.68	0	0	7.6	7	.14
28	3.6	0	0	.65	0	0	19	7	.36
29	3.3	0	0	.65	1	0	10	2	.05
30	3.0	0	0	.74	1	0	6.4	2	.03
31	2.8	0	0	.82	2	0	--	--	--
TOTAL	324.3	--	.43	45.41	--	.06	58.89	--	.58

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 6167.01
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 24.89

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, Eldorado National Forest, at gaging station on upstream side of State Highway 89 culvert, and 0.1 mile north of Meeks Bay Fire Department.

DRAINAGE AREA.--8.08 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1972.
Sediment records: October 1971 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 31 mg/l Sept. 1; minimum daily, 0 mg/l on many days.
Sediment discharge: Maximum daily, 2.5 tons May 15; minimum daily, 0 tons on many days.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	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
MAY										
15...	0940	5.0	92	11	2.7	21	--	--	--	--
25...	0930	6.0	54	12	1.7	18	--	--	--	--
29...	0720	8.0	94	11	2.8	10	12	22	58	100
JUNE										
12...	1230	10.0	26	2	.14	57	--	--	--	--

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.40	3	0	.41	3	0	4.4	2	.02
2	.40	3	0	.41	3	0	3.3	2	.02
3	.40	3	0	.41	3	0	4.4	1	.01
4	.40	3	0	.41	3	0	4.4	1	.01
5	.40	3	0	.41	3	0	4.1	2	.02
6	.40	3	0	.41	2	0	4.4	2	.02
7	.40	3	0	.41	2	0	4.1	2	.02
8	.40	3	0	.41	2	0	3.7	2	.02
9	.40	3	0	.41	2	0	3.3	2	.02
10	.40	3	0	.41	2	0	3.3	2	.02
11	.40	3	0	3.0	5	.06	3.7	2	.02
12	.40	3	0	4.8	[illegible]	.05	4.1	1	.01
13	.40	3	0	1.8	2	.01	4.8	1	.01
14	.40	3	0	1.1	2	.01	4.4	1	.01
15	1.0	6	.02	1.1	2	.01	4.1	1	.01
16	.60	5	.01	.97	2	.01	3.3	1	.01
17	.41	4	0	.86	2	0	2.9	1	.01
18	.41	4	0	.86	2	0	2.5	1	.01
19	.41	4	0	.75	2	0	2.2	2	.01
20	.41	4	0	.75	2	0	1.9	2	.01
21	.41	4	0	.86	2	0	1.8	2	.01
22	.41	4	0	.86	2	0	1.7	2	.01
23	.41	4	0	.86	2	0	1.6	2	.01
24	.41	4	0	.86	2	0	1.5	2	.01
25	.41	3	0	.97	2	.01	1.4	2	.01
26	.41	3	0	3.0	4	.06	1.3	1	0
27	.41	3	0	5.2	4	.06	1.1	1	0
28	.41	3	0	6.5	3	.05	1.0	1	0
29	.41	3	0	6.1	2	.03	1.0	1	0
30	.41	3	0	5.2	2	.03	1.0	0	0
31	.41	3	0	--	--	--	1.0	0	0
TOTAL	13.35	--	.03	50.50	--	.39	87.7	--	.34

	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	1.0	0	0	2.0	0	0	12	4	.13
2	1.1	0	0	2.1	0	0	14	4	.15
3	1.1	0	0	2.3	0	0	27	4	.29
4	1.2	0	0	2.6	0	0	37	5	.50
5	1.2	0	0	3.0	0	0	39	6	.63
6	1.3	0	0	3.4	0	0	34	7	.64
7	1.4	0	0	3.7	0	0	33	8	.71
8	1.5	0	0	4.1	0	0	33	5	.45
9	1.6	0	0	4.1	0	0	36	3	.29
10	1.8	0	0	3.7	0	0	41	3	.33
11	1.8	0	0	3.7	0	0	41	2	.22
12	1.8	0	0	3.7	0	0	35	2	.19
13	1.8	0	0	3.7	0	0	34	2	.18
14	1.8	1	0	3.7	0	0	35	2	.19
15	1.8	1	0	3.7	0	0	32	2	.17
16	1.8	1	0	4.1	1	.01	33	2	.18
17	1.8	1	0	4.1	1	.01	37	2	.20
18	2.5	1	.01	4.4	1	.01	41	2	.22
19	2.5	1	.01	4.4	1	.01	37	2	.20
20	2.9	1	.01	5.2	1	.01	37	2	.20
21	3.7	1	.01	6.1	1	.02	40	2	.22
22	4.4	1	.01	6.9	1	.02	40	2	.22
23	5.0	1	.01	6.9	1	.02	34	2	.18
24	4.7	1	.01	6.9	1	.02	28	2	.15
25	4.2	1	.01	7.4	1	.02	34	2	.18
26	3.6	1	.01	7.8	1	.02	27	2	.15
27	3.2	1	.01	7.4	1	.02	22	2	.12
28	2.9	1	.01	9.1	1	.02	18	1	.05
29	2.6	0	0	14	4	.15	18	1	.05
30	2.2	0	0	--	--	--	16	1	.04
31	2.0	0	0	--	--	--	16	1	.04
TOTAL	72.2	--	.11	144.2	--	.36	961	--	7.47

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	17	1	.05	41	4	.44	71	11	2.1
2	20	1	.05	50	7	.95	66	11	2.0
3	23	1	.06	60	7	1.1	57	10	1.5
4	30	2	.16	62	6	1.0	48	10	1.3
5	53	13	1.7	66	5	.89	47	9	1.1
6	47	3	.38	68	4	.73	49	9	1.2
7	31	2	.17	63	3	.51	45	8	.97
8	25	2	.14	48	2	.26	47	8	1.0
9	22	1	.06	48	2	.26	52	5	.70
10	21	1	.06	50	2	.27	40	4	.43
11	21	1	.06	54	2	.29	30	3	.24
12	21	1	.06	59	2	.32	25	2	.14
13	23	1	.06	66	4	.71	25	2	.14
14	23	1	.06	82	9	2.0	26	2	.14
15	21	1	.06	84	11	2.5	26	2	.14
16	23	1	.06	78	7	1.5	25	2	.14
17	23	1	.06	69	4	.75	22	2	.12
18	22	1	.06	56	3	.45	21	2	.11
19	18	1	.05	51	3	.41	21	2	.11
20	18	1	.05	40	3	.32	20	2	.11
21	20	1	.05	32	2	.17	17	2	.09
22	22	1	.06	28	2	.15	14	2	.08
23	27	1	.07	32	2	.17	13	2	.07
24	31	1	.08	42	2	.23	12	2	.06
25	27	1	.07	49	12	1.6	9.5	2	.05
26	24	1	.06	62	11	1.8	9.1	2	.05
27	27	1	.07	73	10	2.0	9.1	2	.05
28	37	3	.30	82	11	2.4	8.6	2	.05
29	42	3	.34	78	11	2.3	8.2	2	.04
30	39	4	.42	72	11	2.1	7.8	2	.04
31	--	--	--	72	11	2.1	--	--	--
TOTAL	798	--	4.93	1817	--	30.68	871.3	--	14.27

	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	6.5	2	.04	.22	2	0	.59	31	.14
2	5.2	2	.03	.22	3	0	.47	17	.02
3	4.8	2	.03	.22	4	0	.47	7	.01
4	4.1	2	.02	.22	4	0	.47	4	.01
5	3.3	2	.02	.22	4	0	.47	4	.01
6	2.9	2	.02	.22	3	0	.41	4	0
7	2.2	2	.01	.22	3	0	.35	4	0
8	1.4	2	.01	.22	3	0	.35	4	0
9	1.1	2	.01	.22	3	0	.35	3	0
10	.97	2	.01	.26	3	0	.35	3	0
11	.75	2	0	.26	3	0	.35	3	0
12	.65	2	0	.22	4	0	.35	3	0
13	.65	2	0	.22	4	0	.41	2	0
14	.55	2	0	.22	4	0	.41	2	0
15	.55	2	0	.22	4	0	.41	2	0
16	.55	2	0	.22	4	0	.41	5	.01
17	.55	2	0	.22	4	0	.41	6	.01
18	.47	2	0	.22	4	0	.35	3	0
19	.41	2	0	.22	4	0	.35	3	0
20	.41	2	0	.18	4	0	.30	3	0
21	.41	2	0	.18	5	0	.30	3	0
22	.41	2	0	.18	5	0	.30	4	0
23	.35	2	0	.18	8	0	.30	5	0
24	.30	2	0	.18	8	0	.30	6	0
25	.30	2	0	.18	8	0	.30	7	.01
26	.26	2	0	.22	10	.01	.45	10	.01
27	.26	2	0	.22	7	0	2.1	9	.05
28	.26	2	0	.22	6	0	.65	4	.01
29	.26	2	0	.22	5	0	.47	3	0
30	.26	2	0	.22	4	0	.35	3	0
31	.26	2	0	.26	4	0	--	--	--
TOTAL	41.34	--	.20	6.70	--	.01	13.55	--	.29

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 4876.84
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 59.08

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 upstream from Highway 89, and 0.5 mile southeast of Homewood.

DRAINAGE AREA.--0.95 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1972.
Sediment records: October 1971 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 11 mg/l Sept. 26; minimum daily, 0 mg/l on many days.
Sediment discharge: Maximum daily, 0.21 ton June 1; minimum daily, 0 tons on many days.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	1.0	---	---	6.5	---	---	15.5	10.5
2	---	---	---	---	---	---	---	---	10.5	---	---	---
3	---	---	---	---	---	2.0	6.0	---	---	12.5	---	---
4	---	---	3.5	0.0	---	---	---	---	---	---	10.5	11.0
5	---	---	---	---	---	---	1.5	6.5	---	---	---	---
6	---	---	2.5	---	---	---	3.5	---	12.0	---	---	---
7	---	---	---	---	---	3.0	4.5	---	---	12.5	---	16.0
8	---	---	---	---	3.0	---	---	---	11.0	---	16.5	---
9	---	6.5	---	---	---	---	---	---	10.5	---	---	---
10	---	---	---	---	---	---	---	---	---	13.0	---	---
11	---	---	---	---	1.0	---	---	7.0	---	---	10.5	6.0
12	---	---	---	2.0	---	3.0	---	---	10.0	18.0	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	10.5	---	---	---	1.0	6.5	4.5	---	11.0	15.0	9.0	7.0
15	---	---	---	---	---	---	---	7.5	---	---	---	---
16	---	---	0.0	2.0	---	2.5	---	8.0	15.0	---	---	---
17	---	---	---	---	4.0	---	---	---	---	---	---	---
18	---	---	---	---	---	---	3.0	---	---	---	12.0	8.0
19	---	---	---	---	---	2.5	---	7.0	13.5	---	---	---
20	---	---	2.5	3.0	---	---	4.5	6.5	---	---	---	---
21	---	---	---	---	2.5	---	---	---	---	10.5	---	---
22	---	---	---	---	---	---	---	10.5	---	---	9.5	---
23	---	---	---	---	---	2.5	---	---	11.5	---	---	---
24	---	---	---	---	---	---	---	7.5	---	---	---	---
25	---	---	---	0.0	---	---	---	7.0	---	11.5	8.5	5.0
26	---	---	---	---	---	---	---	9.0	12.0	---	---	7.5
27	---	---	---	---	---	---	---	11.0	---	---	---	8.0
28	---	---	---	---	5.0	---	3.0	---	---	---	---	9.5
29	---	---	---	---	---	2.0	---	9.5	---	---	15.5	---
30	---	---	---	---	---	---	---	---	13.5	---	---	---
31	---	---	---	---	---	---	---	10.5	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
MAY 16...	0915	8.0	15	1	.04	67	72	100

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.37	2	0	.37	2	0	.70	2	0
2	.37	2	0	.37	2	0	.64	2	0
3	.37	2	0	.37	2	0	.64	2	0
4	.37	2	0	.37	2	0	.58	2	0
5	.37	2	0	.37	2	0	.58	2	0
6	.37	2	0	.37	2	0	.64	2	0
7	.37	2	0	.37	2	0	.52	2	0
8	.37	2	0	.33	2	0	.47	2	0
9	.37	2	0	.33	2	0	.47	2	0
10	.37	2	0	.33	2	0	.42	2	0
11	.37	2	0	.90	8	.02	.42	2	0
12	.37	2	0	.98	6	.02	.42	1	0
13	.37	2	0	.76	2	0	.42	1	0
14	.37	2	0	.70	2	0	.42	1	0
15	.37	2	0	.58	2	0	.37	1	0
16	.42	2	0	.58	2	0	.37	1	0
17	.42	2	0	.58	2	0	.37	1	0
18	.42	2	0	.58	1	0	.37	1	0
19	.42	2	0	.58	1	0	.37	0	0
20	.42	2	0	.58	1	0	.37	0	0
21	.42	2	0	.58	1	0	.37	0	0
22	.42	2	0	.58	1	0	.58	0	0
23	.42	2	0	.58	1	0	.76	0	0
24	.42	2	0	.58	1	0	.64	0	0
25	.42	2	0	.58	1	0	.52	0	0
26	.42	2	0	1.2	4	.02	.52	0	0
27	.42	2	0	1.2	3	.01	.52	0	0
28	.37	2	0	1.2	2	.01	.47	0	0
29	.37	2	0	.90	2	0	.47	0	0
30	.37	2	0	.82	2	0	.42	0	0
31	.37	2	0	--	--	--	.37	0	0
TOTAL	12.07	--	0	18.62	--	.08	15.20	--	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	.37	0	0	.29	1	0	.98	3	.01
2	.37	0	0	.26	2	0	1.2	5	.02
3	.37	0	0	.29	2	0	2.6	7	.05
4	.37	0	0	.26	2	0	2.1	3	.02
5	.37	0	0	.26	2	0	1.7	2	.01
6	.42	0	0	.26	2	0	1.5	2	.01
7	.47	0	0	.26	2	0	1.4	2	.01
8	.47	1	0	.23	2	0	1.2	2	.01
9	.52	1	0	.23	2	0	1.3	2	.01
10	.52	2	0	.23	1	0	1.7	3	.01
11	.47	2	0	.23	1	0	1.9	2	.01
12	.47	2	0	.23	2	0	1.6	1	0
13	.42	1	0	.23	2	0	1.6	2	.01
14	.42	1	0	.23	2	0	1.6	2	.01
15	.42	0	0	.23	2	0	1.5	2	.01
16	.42	0	0	.23	2	0	1.7	2	.01
17	.37	0	0	.23	2	0	2.0	2	.01
18	.37	0	0	.23	2	0	2.0	2	.01
19	.37	1	0	.26	2	0	2.0	3	.02
20	.37	1	0	.29	2	0	2.6	3	.02
21	.37	1	0	.33	3	0	3.5	3	.03
22	.37	1	0	.33	3	0	4.0	3	.03
23	.33	2	0	.29	3	0	3.5	3	.03
24	.33	3	0	.29	2	0	3.2	3	.03
25	.29	3	0	.37	2	0	4.4	3	.04
26	.29	3	0	.37	2	0	3.5	2	.02
27	.26	3	0	.42	2	0	3.2	2	.02
28	.29	3	0	.64	5	.01	2.7	1	.01
29	.26	2	0	1.3	5	.02	2.3	1	.01
30	.26	2	0	--	--	--	2.3	1	.01
31	.26	2	0	--	--	--	2.2	1	.01
TOTAL	11.66	--	0	9.30	--	.03	68.98	--	.51

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	2.3	2	.01	5.4	2	.03	14	6	.21
2	2.7	2	.01	7.1	3	.06	13	3	.11
3	3.1	2	.02	8.3	3	.07	11	3	.09
4	3.6	2	.02	9.9	4	.11	9.1	2	.05
5	6.6	7	.11	10	5	.14	9.1	2	.05
6	5.4	2	.03	10	5	.14	8.3	2	.04
7	4.2	2	.02	9.5	3	.08	8.0	2	.04
8	3.4	2	.02	8.3	1	.02	8.3	4	.09
9	3.2	2	.02	8.3	2	.04	8.3	1	.02
10	3.2	2	.02	8.7	2	.05	7.1	2	.04
11	3.4	2	.02	8.7	2	.05	5.6	2	.03
12	3.4	2	.02	9.1	2	.05	5.4	3	.04
13	3.2	2	.02	11	4	.12	4.8	3	.04
14	2.6	2	.01	15	4	.16	4.0	3	.03
15	2.6	2	.01	15	5	.20	4.4	2	.02
16	2.7	2	.01	15	4	.16	5.2	2	.03
17	2.6	2	.01	9.9	3	.08	5.2	2	.03
18	2.6	1	.01	3.8	3	.03	5.0	3	.04
19	2.6	1	.01	9.5	3	.08	4.8	3	.04
20	2.7	1	.01	9.5	5	.13	4.6	3	.04
21	2.8	2	.02	8.3	3	.07	4.4	3	.04
22	3.1	2	.02	7.7	3	.06	4.0	3	.03
23	3.4	2	.02	8.3	3	.07	3.6	3	.03
24	3.6	2	.02	10	3	.08	3.5	3	.03
25	3.4	2	.02	10	3	.08	3.1	3	.03
26	3.4	2	.02	11	3	.09	3.0	5	.04
27	3.6	2	.02	12	3	.10	2.7	3	.02
28	4.6	2	.02	12	4	.13	2.2	2	.01
29	5.2	2	.03	15	4	.16	2.1	2	.01
30	5.2	2	.03	12	4	.13	2.0	2	.01
31	--	--	--	10	4	.11	--	--	--
TOTAL	104.4	--	.63	308.3	--	2.88	175.8	--	1.33

	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	2.3	3	.02	.26	2	0	.23	2	0
2	2.3	2	.01	.26	2	0	.23	2	0
3	2.0	2	.01	.26	1	0	.20	1	0
4	1.9	2	.01	.26	1	0	.23	1	0
5	1.7	2	.01	.23	1	0	.20	1	0
6	1.4	2	.01	.20	2	0	.20	1	0
7	1.2	2	.01	.20	2	0	.20	1	0
8	1.2	2	.01	.20	2	0	.20	1	0
9	1.2	2	.01	.17	2	0	.20	1	0
10	1.0	2	.01	.17	2	0	.20	1	0
11	.98	2	.01	.17	2	0	.20	1	0
12	.90	3	.01	.17	2	0	.23	1	0
13	.70	3	.01	.17	1	0	.23	1	0
14	.64	3	.01	.17	1	0	.23	1	0
15	.58	3	0	.17	1	0	.20	1	0
16	.47	3	0	.20	1	0	.20	1	0
17	.37	2	0	.20	2	0	.20	1	0
18	.42	2	0	.20	2	0	.20	1	0
19	.37	2	0	.20	2	0	.23	1	0
20	.37	2	0	.20	1	0	.23	1	0
21	.31	2	0	.20	1	0	.20	1	0
22	.33	2	0	.20	1	0	.20	1	0
23	.29	2	0	.17	1	0	.20	1	0
24	1.8	4	.03	.17	2	0	.20	1	0
25	.42	2	0	.17	2	0	.23	1	0
26	.37	2	0	.17	2	0	.60	11	.02
27	.33	2	0	.17	2	0	.69	4	.01
28	.33	2	0	.17	2	0	.42	2	0
29	.29	2	0	.20	4	0	.37	2	0
30	.29	2	0	.20	2	0	.33	2	0
31	.26	2	0	.20	2	0	--	--	--
TOTAL	27.02	--	.18	6.08	--	0	7.68	--	.03

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 765.11
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 5.67

10336655 MADDEN CREEK NEAR HOMEWOOD, CALIF.

LOCATION.--Lat 39°05'14", long 120°10'24", in NE¼SE¼ sec.2, T.14 N., R.16 E., Placer County, Tahoe National Forest, at gaging station on right bank 1.0 mile northwest of Homewood Post Office.

DRAINAGE AREA.--1.40 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1972.
Sediment records: October 1971 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 434 mg/l Sept. 26; minimum daily, 0 mg/l on many days.
Sediment discharge: Maximum daily, 5.0 tons Sept. 26; minimum daily, 0 tons on many days.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

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

10336655 MADDEN CREEK NEAR HOMEWOOD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.72	1	0	1.0	1	0	.67	2	0
2	.72	1	0	1.0	1	0	.67	2	0
3	.72	1	0	.96	0	0	.67	2	0
4	.72	1	0	.96	0	0	.67	2	0
5	.72	1	0	.96	0	0	.67	2	0
6	.72	2	0	.90	0	0	.67	2	0
7	.72	3	.01	.90	0	0	.67	2	0
8	.72	3	.01	.84	0	0	.67	2	0
9	.72	2	0	.84	0	0	.67	1	0
10	.72	2	0	.84	2	0	.67	1	0
11	.72	1	0	2.9	6	.07	.67	1	0
12	.72	1	0	1.4	3	.01	.67	1	0
13	.72	1	0	1.0	2	.01	.72	1	0
14	.84	1	0	.96	2	.01	.72	1	0
15	.96	1	0	.96	2	.01	.67	1	0
16	1.1	1	0	.78	2	0	.67	1	0
17	1.0	1	0	.72	2	0	.62	1	0
18	1.0	1	0	.72	2	0	.58	1	0
19	1.1	1	0	.72	2	0	.58	0	0
20	1.2	1	0	.72	2	0	.58	0	0
21	1.2	1	0	.72	2	0	.58	0	0
22	1.2	1	0	.72	2	0	.62	0	0
23	1.2	1	0	.72	2	0	.78	0	0
24	1.2	1	0	.67	2	0	.72	0	0
25	1.2	1	0	.67	2	0	.72	0	0
26	1.3	1	0	2.3	7	.06	.72	0	0
27	1.4	1	0	1.3	3	.01	.72	0	0
28	1.3	1	0	.96	2	.01	.72	0	0
29	1.1	1	0	.84	2	0	.72	0	0
30	1.0	1	0	.78	2	0	.72	0	0
31	1.0	1	0	--	--	--	.72	0	0
TOTAL	29.66	--	.02	29.76	--	.19	20.92	--	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	.72	0	0	.62	0	0	.84	1	0
2	.67	0	0	.62	0	0	1.3	5	.02
3	.67	0	0	.62	0	0	5.0	13	.18
4	.67	0	0	.62	0	0	5.0	3	.04
5	.67	0	0	.62	0	0	3.7	1	.01
6	.67	0	0	.62	0	0	3.1	1	.01
7	.67	0	0	.58	0	0	3.3	1	.01
8	.67	0	0	.58	0	0	3.5	1	.01
9	.62	0	0	.58	0	0	3.9	2	.02
10	.62	0	0	.58	0	0	4.4	2	.02
11	.62	0	0	.54	0	0	4.4	2	.02
12	.62	0	0	.54	0	0	4.2	2	.02
13	.62	0	0	.51	0	0	5.0	2	.03
14	.62	0	0	.51	0	0	4.7	2	.03
15	.62	0	0	.51	0	0	4.4	2	.02
16	.62	0	0	.51	1	0	5.0	2	.03
17	.62	0	0	.48	1	0	6.2	2	.03
18	.62	0	0	.48	1	0	6.2	2	.03
19	.67	0	0	.48	1	0	6.6	2	.04
20	.67	0	0	.51	1	0	6.6	2	.04
21	.72	0	0	.58	1	0	7.7	2	.04
22	.72	0	0	.58	2	0	7.7	2	.04
23	.72	0	0	.62	2	0	6.2	2	.03
24	.72	0	0	.62	2	0	5.9	2	.03
25	.72	0	0	.62	1	0	6.2	2	.03
26	.67	0	0	.62	1	0	5.3	2	.03
27	.67	0	0	.62	1	0	4.7	2	.03
28	.67	0	0	.84	1	0	4.2	2	.02
29	.67	0	0	1.0	1	0	3.7	2	.02
30	.62	0	0	--	--	--	3.5	2	.02
31	.62	0	0	--	--	--	3.5	2	.02
TOTAL	20.47	--	0	17.21	--	0	145.94	--	.92

10336655 MADDEN CREEK NEAR HOMEWOOD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	3.3	1	.01	9.6	2	.05	29	3	.23
2	3.9	1	.01	12	2	.06	28	3	.23
3	4.7	1	.01	14	2	.08	23	3	.19
4	5.9	1	.02	16	2	.09	23	2	.12
5	8.5	1	.02	18	2	.10	24	2	.13
6	7.0	1	.02	17	2	.09	24	2	.13
7	5.6	1	.02	16	1	.04	24	2	.13
8	5.3	1	.01	16	1	.04	25	1	.07
9	4.7	1	.01	15	1	.04	23	1	.06
10	4.4	1	.01	15	1	.04	21	1	.06
11	4.4	1	.01	16	2	.09	18	1	.05
12	4.2	1	.01	15	2	.08	15	2	.08
13	3.7	1	.01	16	2	.09	15	2	.08
14	3.5	1	.01	17	2	.09	16	2	.09
15	3.7	1	.01	19	2	.10	18	1	.05
16	3.9	1	.01	20	2	.11	17	1	.05
17	3.9	1	.01	20	2	.11	17	1	.05
18	3.5	1	.01	19	2	.10	17	2	.09
19	3.3	1	.01	18	2	.10	17	2	.09
20	3.3	1	.01	15	12	.49	16	2	.09
21	3.7	1	.01	13	9	.32	14	2	.08
22	4.2	1	.01	12	7	.23	13	1	.04
23	5.3	1	.01	13	6	.21	12	1	.03
24	5.3	1	.01	15	5	.20	11	1	.03
25	4.4	1	.01	15	4	.16	9.6	4	.10
26	4.7	1	.01	18	3	.15	8.5	5	.11
27	5.9	1	.02	21	3	.17	8.1	3	.07
28	8.1	2	.04	25	3	.20	8.1	2	.04
29	8.5	2	.05	26	3	.21	8.1	1	.02
30	8.9	2	.05	26	3	.21	8.1	1	.02
31	--	--	--	29	3	.23	--	--	--
TOTAL	149.7	--	.46	536.6	--	4.28	510.5	--	2.61

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7.0	2	.04	1.0	0	0	.90	2	0
2	6.6	2	.04	.96	0	0	.96	2	.01
3	5.6	2	.03	.96	1	0	.96	2	.01
4	5.3	2	.03	.96	1	0	1.1	2	.01
5	4.7	2	.03	.96	2	.01	1.0	2	.01
6	4.2	2	.02	.90	3	.01	1.0	1	0
7	3.9	1	.01	.84	4	.01	1.0	1	0
8	2.9	1	.01	.78	4	.01	1.0	1	0
9	2.9	1	.01	.72	2	0	.96	0	0
10	2.6	1	.01	.72	1	0	.96	0	0
11	2.4	1	.01	.72	1	0	1.0	0	0
12	2.6	1	.01	.72	1	0	1.0	1	0
13	2.7	1	.01	.72	0	0	1.0	4	.01
14	2.6	1	.01	.72	0	0	1.0	6	.02
15	2.4	1	.01	.72	0	0	.96	8	.02
16	2.3	1	.01	.72	0	0	1.0	7	.02
17	2.1	1	.01	.72	0	0	1.0	6	.02
18	2.1	1	.01	.72	0	0	1.0	6	.02
19	2.0	1	.01	.72	0	0	1.0	5	.01
20	1.8	0	0	.72	0	0	1.0	4	.01
21	1.8	0	0	.67	0	0	1.0	4	.01
22	1.8	0	0	.67	0	0	1.0	3	.01
23	1.8	0	0	.67	0	0	1.0	2	.01
24	1.7	0	0	.67	1	0	1.0	1	0
25	1.6	0	0	.58	1	0	1.1	5	.01
26	1.5	0	0	.58	1	0	3.6	434	5.0
27	1.4	0	0	.58	2	0	3.5	41	.54
28	1.3	0	0	.67	2	0	1.4	2	.01
29	1.3	0	0	.84	2	0	1.3	2	.01
30	1.3	0	0	.84	2	0	1.2	2	.01
31	1.3	0	0	.84	2	0	--	--	--
TOTAL	85.5	--	.32	23.61	--	.04	35.90	--	5.78

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1605.77
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 14.62

10336658 MADDEN CREEK AT HOMEWOOD, CALIF.

LOCATION.--Lat 39°05'27", long 120°09'42", in SE¼NW¼ sec.1, T.14 N., R.16 E., Placer County, Tahoe National Forest, at gaging station on left bank downstream from culvert on State Highway 89, and 0.7 mile north of Homewood Post Office.

DRAINAGE AREA.--2.06 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1972.
Sediment records: October 1971 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 23 mg/l Sept. 27; minimum daily, 0 mg/l on many days.
Sediment discharge: Maximum daily, 0.95 ton May 31; minimum daily, 0 tons on many days.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

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

10336658 MADDEN CREEK AT HOMEWOOD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1	0	.31	1	0	.57	2	0
2	.14	1	0	.31	1	0	.46	2	0
3	.14	1	0	.28	1	0	.57	2	0
4	.14	1	0	.25	1	0	.57	2	0
5	.14	1	0	.21	1	0	.51	3	0
6	.14	1	0	.19	1	0	.57	3	0
7	.14	1	0	.19	1	0	.46	2	0
8	.14	1	0	.19	1	0	.42	1	0
9	.14	1	0	.19	1	0	.38	1	0
10	.14	1	0	.17	2	0	.35	1	0
11	.14	1	0	2.5	7	.07	.35	1	0
12	.14	1	0	1.8	5	.02	.35	1	0
13	.14	1	0	.38	2	0	.35	0	0
14	.14	1	0	.63	2	0	.35	0	0
15	.30	1	0	.63	2	0	.35	0	0
16	.20	1	0	.57	2	0	.31	0	0
17	.18	1	0	.51	2	0	.35	0	0
18	.18	1	0	.51	2	0	.35	0	0
19	.18	1	0	.46	2	0	.35	0	0
20	.18	1	0	.42	2	0	.35	0	0
21	.18	1	0	.42	2	0	.35	0	0
22	.18	1	0	.38	2	0	.35	0	0
23	.18	1	0	.38	2	0	.35	0	0
24	.18	1	0	.42	2	0	.35	0	0
25	.18	1	0	.42	2	0	.35	0	0
26	.18	1	0	2.1	6	.05	.35	0	0
27	.21	1	0	1.1	3	.01	.35	0	0
28	.22	1	0	1.3	2	.01	.31	0	0
29	.24	1	0	.94	2	.01	.31	0	0
30	.28	1	0	.57	2	0	.31	0	0
31	.31	1	0	--	--	--	.31	0	0
TOTAL	5.52	--	0	18.73	--	.17	12.01	--	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	.31	0	0	.31	0	0	.70	2	0
2	.31	0	0	.31	0	0	1.3	3	.01
3	.31	0	0	.31	0	0	4.6	12	.17
4	.31	0	0	.31	0	0	4.7	2	.03
5	.35	0	0	.31	0	0	4.0	1	.01
6	.35	0	0	.31	0	0	3.3	1	.01
7	.35	0	0	.31	0	0	3.3	1	.01
8	.35	0	0	.28	0	0	3.3	1	.01
9	.35	0	0	.28	0	0	4.0	1	.01
10	.35	0	0	.28	0	0	4.2	1	.01
11	.35	0	0	.28	0	0	4.5	1	.01
12	.35	0	0	.28	0	0	4.5	1	.01
13	.35	0	0	.28	1	0	4.5	1	.01
14	.31	0	0	.28	1	0	4.7	2	.03
15	.31	0	0	.28	1	0	4.5	3	.04
16	.31	0	0	.28	2	0	5.1	2	.03
17	.31	0	0	.28	3	0	5.6	2	.03
18	.31	0	0	.28	3	0	6.3	2	.03
19	.35	0	0	.28	2	0	6.0	2	.03
20	.31	0	0	.31	1	0	6.6	2	.04
21	.31	0	0	.35	0	0	7.4	2	.04
22	.38	0	0	.35	0	0	7.1	2	.04
23	.35	0	0	.35	0	0	6.0	2	.03
24	.35	0	0	.35	0	0	5.6	2	.03
25	.35	0	0	.35	0	0	6.3	2	.03
26	.35	0	0	.35	0	0	5.6	2	.03
27	.35	0	0	.35	0	0	5.1	2	.03
28	.35	0	0	.57	0	0	4.7	2	.03
29	.31	0	0	1.1	3	.01	4.4	2	.02
30	.31	0	0	--	--	--	4.2	2	.02
31	.31	0	0	--	--	--	4.2	2	.02
TOTAL	10.32	--	0	9.96	--	.01	146.30	--	.85

10336658 MADDEN CREEK AT HOMEWOOD, 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	4.2	2	.02	9.2	2	.05	34	8	.73
2	4.4	2	.02	12	3	.10	33	6	.53
3	4.9	2	.03	14	4	.15	32	7	.60
4	5.3	2	.03	17	5	.23	30	8	.65
5	7.4	5	.10	19	7	.36	31	8	.67
6	6.3	2	.03	20	6	.32	30	9	.73
7	5.6	2	.03	18	5	.24	28	5	.38
8	5.6	2	.03	17	3	.14	28	2	.15
9	5.3	2	.03	16	3	.13	25	2	.14
10	4.9	2	.03	17	3	.14	23	2	.12
11	4.9	2	.03	17	3	.14	16	2	.09
12	4.9	2	.03	19	3	.15	14	2	.08
13	4.5	2	.02	20	3	.16	14	2	.08
14	4.4	2	.02	25	5	.34	15	2	.08
15	4.2	2	.02	30	6	.49	16	3	.13
16	4.4	2	.02	30	6	.49	16	4	.17
17	4.4	2	.02	28	5	.38	14	3	.11
18	4.4	2	.02	24	4	.26	15	2	.08
19	4.2	2	.02	19	3	.15	15	2	.08
20	4.0	2	.02	15	10	.41	14	2	.08
21	4.2	2	.02	12	12	.39	13	2	.07
22	4.7	2	.03	12	12	.39	12	2	.06
23	5.5	2	.03	12	5	.16	11	2	.06
24	5.6	2	.03	14	2	.08	10	2	.05
25	5.1	2	.03	16	2	.09	8.2	2	.04
26	5.1	2	.03	20	3	.16	7.7	2	.04
27	6.0	2	.03	26	4	.28	7.4	2	.04
28	7.7	2	.04	32	6	.52	7.1	2	.04
29	8.0	2	.04	33	10	.89	7.4	2	.04
30	8.2	2	.04	34	10	.92	7.1	2	.04
31	--	--	--	35	10	.95	--	--	--
TOTAL	158.3	--	.89	632.2	--	9.66	533.9	--	6.16

	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	6.6	1	.02	.28	1	0	.06	1	0
2	5.6	1	.02	.25	1	0	.06	1	0
3	5.3	1	.01	.23	2	0	.05	1	0
4	4.9	1	.01	.23	2	0	.10	1	0
5	4.5	1	.01	.21	2	0	.15	1	0
6	4.2	1	.01	.15	3	0	.10	0	0
7	4.0	1	.01	.12	4	0	.06	0	0
8	3.5	1	.01	.12	4	0	.05	0	0
9	2.5	1	.01	.09	2	0	.05	0	0
10	2.3	1	.01	.09	1	0	.05	0	0
11	2.1	1	.01	.13	0	0	.05	0	0
12	2.1	1	.01	.09	0	0	.06	0	0
13	2.5	1	.01	.09	0	0	.06	1	0
14	2.3	1	.01	.09	0	0	.06	1	0
15	2.3	1	.01	.09	0	0	.05	1	0
16	1.6	1	0	.07	0	0	.05	1	0
17	2.0	1	.01	.08	0	0	.05	1	0
18	1.6	1	0	.07	0	0	.05	1	0
19	1.5	1	0	.06	0	0	.04	1	0
20	1.3	1	0	.06	0	0	.05	1	0
21	1.5	1	0	.06	0	0	.05	1	0
22	1.3	1	0	.06	0	0	.05	1	0
23	1.1	1	0	.06	0	0	.05	1	0
24	.94	1	0	.10	1	0	.05	1	0
25	.80	1	0	.06	1	0	.05	1	0
26	.70	1	0	.06	1	0	.88	19	.07
27	.63	1	0	.05	2	0	1.3	23	.12
28	.51	1	0	.04	2	0	.46	3	0
29	.46	1	0	.07	1	0	.35	2	0
30	.46	1	0	.07	1	0	.31	1	0
31	.42	1	0	.05	1	0	--	--	--
TOTAL	71.52	--	.18	3.28	--	0	4.80	--	.19

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1606.84
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 18.11

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 upstream from culvert on State Highway 28, 1,000 ft upstream from Lake Tahoe, and 2.8 miles northeast of Tahoe City.

DRAINAGE AREA.--1.07 sq mi.

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

EXTREMES.--June to September 1972:
Sediment concentrations: Maximum daily, 7 mg/l July 4, 5; minimum daily, 1 mg/l on several days during September.
Sediment loads: Maximum daily, 0.01 ton Apr. 8; minimum daily, 0 tons on many days.

TEMPERATURE (°C) OF WATER, JUNE TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

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

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, JUNE TO SEPTEMBER 1972

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	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
JULY 06...	1500	2	.06	1	1	3	7	14	29	64	89	100

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

SUSPENDED-SEDIMENT DISCHARGE, JUNE TO SEPTEMBER 1972

	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							.22	2	0
2							.22	2	0
3							.25	2	0
4							.25	3	0
5							.22	3	0
6							.22	3	0
7							.34	3	0
8							.38	6	.01
9							.38	4	0
10							.34	3	0
11							.32	3	0
12							.25	3	0
13							.22	3	0
14							.22	3	0
15							.22	2	0
16							.23	2	0
17							.19	3	0
18							.22	3	0
19							.17	2	0
20							.17	2	0
21							.17	2	0
22							.15	2	0
23							.11	2	0
24							.14	2	0
25							.14	2	0
26							.14	2	0
27							.12	3	0
28							.08	2	0
29							.08	2	0
30							.09	3	0
31							--	--	--
TOTAL							6.25	--	.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	.06	2	0	.05	3	0	.15	2	0
2	.06	2	0	.05	3	0	.11	2	0
3	.07	6	0	.05	3	0	.11	2	0
4	.09	7	0	.05	3	0	.13	2	0
5	.07	7	0	.04	3	0	.16	2	0
6	.08	5	0	.04	3	0	.14	1	0
7	.08	6	0	.05	3	0	.14	2	0
8	.09	6	0	.03	3	0	.11	1	0
9	.11	4	0	.05	3	0	.11	2	0
10	.07	4	0	.04	3	0	.13	2	0
11	.11	5	0	.05	3	0	.11	1	0
12	.08	5	0	.05	3	0	.11	1	0
13	.09	4	0	.05	3	0	.11	1	0
14	.07	6	0	.06	3	0	.11	1	0
15	.06	5	0	.03	2	0	.08	1	0
16	.06	4	0	.10	4	0	.08	1	0
17	.03	3	0	.11	3	0	.10	1	0
18	.03	2	0	.10	3	0	.08	1	0
19	.05	3	0	.07	3	0	.07	1	0
20	.06	3	0	.04	2	0	.08	1	0
21	.04	4	0	.06	2	0	.07	1	0
22	.07	4	0	.05	2	0	.05	1	0
23	.05	3	0	.06	2	0	.05	1	0
24	.07	3	0	.06	2	0	.07	1	0
25	.05	3	0	.06	2	0	.07	1	0
26	.06	3	0	.06	2	0	.23	2	0
27	.05	3	0	.06	2	0	.29	2	0
28	.05	3	0	.06	2	0	.21	2	0
29	.04	3	0	.08	2	0	.13	1	0
30	.04	3	0	.20	2	0	.11	2	0
31	.04	3	0	.22	2	0	--	--	--
TOTAL	1.98	--	0	2.08	--	0	3.50	--	0

TOTAL DISCHARGE FOR PERIOD JUNE 1 TO SEPT. 30 (CFS-DAYS) 13.81
TOTAL SUSPENDED SEDIMENT DISCHARGE FOR PERIOD JUNE 1 TO SEPT. 30 (TONS) 0.01

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. 50 Highway bridge, 1.2 miles upstream from Lake Tahoe, and 1.9 miles northeast of South Lake Tahoe Post Office.

DRAINAGE AREA.--40.4 sq mi.

PERIOD OF RECORD.--Water temperatures: November 1971 to September 1972.
Sediment records: October 1971 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 186 mg/l Aug. 30; minimum daily, 3 mg/l Sept. 25.
Sediment discharge: Maximum daily, 51 tons June 4; minimum daily, 0.1 ton Sept. 25.

TEMPERATURE (°C) OF WATER, NOVEMBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	5.5	---	---	0.0	---	---	---	---	---	15.0	14.0
2	---	---	---	---	---	---	---	---	9.0	---	---	---
3	---	---	---	0.0	---	6.5	11.0	---	---	14.0	---	---
4	---	---	0.0	---	---	7.5	---	---	---	---	20.0	12.0
5	---	---	---	---	---	---	3.5	11.5	---	---	---	---
6	---	---	2.0	---	---	3.0	7.0	---	11.0	---	---	---
7	---	---	---	---	0.0	1.0	---	---	---	14.0	---	10.0
8	---	3.0	---	---	---	---	---	---	10.5	---	15.5	---
9	---	---	---	---	---	---	---	---	7.5	---	---	---
10	---	---	---	---	---	5.0	6.5	7.0	---	14.5	---	---
11	---	6.0	---	---	0.0	---	---	---	---	---	15.5	11.5
12	---	---	---	---	---	4.5	---	10.0	13.0	---	---	---
13	---	---	0.0	---	---	---	---	---	10.0	---	---	---
14	---	---	---	---	0.0	---	6.0	---	14.0	21.0	14.0	10.5
15	---	---	---	---	---	---	---	8.5	---	---	---	---
16	---	---	---	0.0	---	4.5	---	11.5	10.5	---	---	---
17	---	---	---	---	0.0	---	---	---	---	---	15.0	---
18	---	---	---	---	---	---	9.0	---	---	---	---	13.5
19	---	---	---	---	---	7.0	---	5.5	14.5	---	---	---
20	---	---	0.0	0.0	---	---	10.5	6.0	---	15.0	---	---
21	---	---	---	---	4.0	6.0	7.0	---	---	---	11.5	---
22	---	---	---	---	---	---	---	6.0	---	---	---	---
23	---	---	---	---	---	3.0	---	---	9.5	---	---	---
24	---	---	---	---	---	---	---	6.5	---	15.0	---	---
25	---	---	---	0.0	---	---	---	10.0	---	---	12.0	6.5
26	---	---	---	---	---	---	---	9.0	16.0	---	---	8.0
27	---	---	---	---	---	5.0	---	14.5	---	---	---	7.5
28	---	---	---	0.0	2.5	---	10.5	---	---	---	---	6.0
29	---	---	---	---	---	3.5	---	8.5	---	---	21.0	---
30	---	---	---	---	---	---	---	---	18.0	---	16.5	---
31	---	---	---	---	---	---	---	13.0	---	---	17.5	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
MAR.										
04...	1415	7.5	43	38	4.4	35	49	69	100	--
APR.										
10...	1240	6.5	36	7	.68	19	20	36	93	100
MAY										
09...	0015	--	61	26	4.3	51	58	83	100	--
29...	1015	8.5	80	62	13	38	--	--	--	--
JUNE										
13...	1115	10.0	76	50	10	26	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	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.										
10...	1240	6.5	2	36	2	22	44	53	77	100
MAY										
03...	1300	--	2	55	2	26	55	80	95	100

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	27	10	.73	28	6	.45	24	13	.84
2	29	10	.78	25	6	.41	23	12	.75
3	28	10	.76	22	6	.36	23	20	1.2
4	28	10	.76	22	6	.36	23	24	1.5
5	27	10	.73	22	6	.36	23	15	.93
6	26	10	.70	20	6	.32	23	9	.56
7	25	10	.68	21	8	.45	23	9	.56
8	24	9	.58	24	16	1.0	23	9	.56
9	23	9	.56	20	16	.86	23	9	.56
10	23	9	.56	20	18	.97	23	8	.50
11	22	9	.53	41	92	12	23	8	.50
12	22	9	.53	34	37	3.5	26	8	.56
13	22	9	.53	26	35	2.5	28	8	.60
14	22	9	.53	26	37	2.6	26	8	.56
15	23	9	.56	26	30	2.1	26	8	.56
16	23	8	.50	25	25	1.7	26	8	.56
17	24	8	.52	26	22	1.5	26	7	.49
18	24	8	.52	26	20	1.4	26	7	.49
19	25	8	.54	26	20	1.4	26	7	.49
20	25	8	.54	26	18	1.3	26	7	.49
21	24	7	.45	24	18	1.2	26	7	.49
22	23	7	.43	22	16	.95	26	7	.49
23	23	7	.43	24	16	1.0	26	7	.49
24	23	7	.43	20	14	.76	26	7	.49
25	22	7	.42	22	14	.83	28	6	.45
26	23	6	.37	24	16	1.0	23	6	.37
27	22	6	.36	27	16	1.2	23	6	.37
28	20	6	.32	26	15	1.1	23	6	.37
29	20	6	.32	25	14	.95	23	6	.37
30	20	6	.32	25	14	.95	25	6	.41
31	23	6	.37	--	--	--	27	6	.44
TOTAL	735	--	16.36	745	--	45.48	766	--	18.00

	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	28	6	.45	25	5	.34	28	20	1.5
2	29	6	.47	25	6	.41	30	26	2.1
3	30	6	.49	25	6	.41	40	50	5.4
4	24	6	.39	25	7	.47	46	46	5.7
5	24	7	.45	25	8	.54	44	38	4.5
6	28	7	.53	25	9	.61	43	37	4.3
7	28	7	.53	25	10	.68	43	40	4.6
8	28	8	.60	25	10	.68	43	38	4.4
9	28	8	.60	25	14	.95	47	37	4.7
10	28	8	.60	25	16	1.1	50	38	5.1
11	28	9	.68	25	16	1.1	48	36	4.7
12	28	9	.68	25	14	.95	45	27	3.3
13	28	10	.76	25	14	.95	44	28	3.3
14	28	10	.76	24	16	1.0	43	28	3.3
15	28	11	.83	24	16	1.0	41	24	2.7
16	28	11	.83	24	18	1.2	42	19	2.2
17	28	11	.83	24	18	1.2	44	22	2.6
18	30	10	.81	24	18	1.2	46	21	2.6
19	30	10	.81	24	17	1.1	43	21	2.4
20	30	10	.81	24	16	1.0	44	24	2.9
21	30	10	.81	24	16	1.0	47	25	3.2
22	30	10	.81	27	16	1.2	46	26	3.2
23	30	10	.81	25	16	1.1	46	36	4.5
24	30	9	.73	25	15	1.0	39	32	3.4
25	26	9	.63	23	14	.87	47	42	5.3
26	24	11	.71	24	14	.91	41	32	3.5
27	24	14	.91	24	14	.91	39	24	2.5
28	23	16	.99	28	14	1.1	37	30	3.0
29	23	14	.87	30	20	1.6	35	28	2.6
30	25	10	.68	--	--	--	36	26	2.5
31	25	8	.54	--	--	--	35	24	2.3
TOTAL	851	--	21.40	723	--	26.58	1302	--	108.3

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	34	22	2.0	49	28	3.7	99	95	25
2	36	20	1.9	54	31	4.5	101	108	29
3	39	19	2.0	58	33	5.2	100	99	27
4	40	22	2.4	61	34	5.6	100	182	51
5	49	38	5.0	64	37	6.4	102	164	46
6	44	33	3.9	64	38	6.6	105	70	20
7	41	26	2.9	62	32	5.4	109	60	18
8	38	19	1.9	60	26	4.2	108	54	16
9	37	14	1.4	58	29	4.5	102	89	25
10	37	8	.80	58	30	4.7	94	60	15
11	38	32	3.3	58	32	5.0	84	58	13
12	38	42	4.3	61	31	5.1	78	54	11
13	39	53	5.6	64	38	6.6	74	50	10
14	40	46	5.0	69	45	8.4	72	50	9.7
15	41	34	3.8	73	51	10	70	45	8.5
16	45	35	4.3	73	52	10	69	40	7.5
17	43	31	3.6	72	50	9.7	66	38	6.8
18	40	20	2.2	68	42	7.7	63	35	6.0
19	38	15	1.5	72	43	8.4	61	30	4.9
20	37	14	1.4	65	28	4.9	57	30	4.6
21	38	15	1.5	61	30	4.9	56	29	4.4
22	40	18	1.9	57	40	6.2	54	29	4.2
23	41	22	2.4	56	30	4.5	52	28	3.9
24	43	30	3.5	57	29	4.5	50	27	3.6
25	39	25	2.6	60	32	5.2	49	26	3.4
26	39	22	2.3	63	44	7.5	47	25	3.2
27	43	26	3.0	70	51	9.6	45	24	2.9
28	47	28	3.6	75	54	11	43	23	2.7
29	47	29	3.7	80	60	13	41	22	2.4
30	47	26	3.3	84	70	16	39	20	2.1
31	--	--	--	91	82	20	--	--	--
TOTAL	1218	--	87.00	2017	--	229.0	2190	--	386.8

	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	36	22	2.1	16	13	.56	16	14	.60
2	36	24	2.3	16	12	.52	16	12	.52
3	35	26	2.5	16	12	.52	19	151	11
4	34	24	2.2	16	11	.48	17	90	4.1
5	32	20	1.7	16	12	.52	17	18	.83
6	31	16	1.3	16	12	.52	16	15	.65
7	30	14	1.1	17	13	.60	15	10	.41
8	27	15	1.1	16	14	.60	15	10	.41
9	27	16	1.2	16	12	.52	15	9	.36
10	27	18	1.3	16	10	.43	14	9	.34
11	27	18	1.3	16	9	.39	14	8	.30
12	25	20	1.4	16	9	.39	14	9	.34
13	24	22	1.4	16	8	.35	15	10	.41
14	24	25	1.6	15	8	.32	15	11	.45
15	24	22	1.4	14	9	.34	15	10	.41
16	22	20	1.2	14	10	.38	15	10	.41
17	21	18	1.0	14	11	.42	15	9	.36
18	21	16	.91	14	10	.38	14	9	.34
19	20	14	.76	13	9	.32	15	8	.32
20	21	11	.62	12	8	.26	15	7	.28
21	21	14	.79	12	7	.23	15	6	.24
22	19	16	.82	12	10	.32	15	6	.24
23	19	18	.92	12	12	.39	14	5	.19
24	19	20	1.0	12	12	.39	14	4	.15
25	19	19	.97	13	18	.63	12	3	.10
26	19	18	.92	12	18	.58	20	53	3.3
27	18	17	.83	12	15	.49	20	25	1.4
28	18	16	.78	12	13	.42	16	10	.43
29	17	15	.69	13	12	.42	14	6	.23
30	19	14	.72	20	186	15	14	5	.19
31	19	13	.67	18	65	4.1	--	--	--
TOTAL	751	--	37.50	453	--	31.79	461	--	29.31

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 12212
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 1037.52

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 miles upstream from bridge on State Highway 89 and 7.5 miles north of Truckee.

DRAINAGE AREA.--10.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: May 1968 to September 1972.
Water temperatures: October 1969 to September 1972.
Sediment records: Water years 1968-72 (partial-record station).

EXTREMES.--1969-70:
Water temperatures: Maximum, 19.0°C sometime during periods June 17-21, and July 1-27; minimum, freezing point on several days during November and December.
1970-71:
Water temperatures: Maximum, 19.5°C July 28, 31, Aug. 1; minimum, freezing point on many days during October to April.
1971-72:
Water temperatures: Maximum, 20.0°C July 14-17; minimum, freezing point on many days during October to February.

Period of record:
Water temperatures: Maximum, 20.0°C July 14-17, 1972; minimum, freezing point on many days during winter period each year.

REMARKS.--Additional cooperative studies with University of California, Berkeley, Calif., are being conducted. These include biological sampling of streambed biota and periodic photographic log of stream channel. Data available in district office at Menlo Park, Calif. Temperature records for 1951-69 are in files at University of California, Berkeley, Calif. Water temperature recorder at site 1,000 ft upstream. Temperature graph furnished by University of California. During 1970 water year, clock stopped on following dates:

Date	Range in temperature	Date	Range in temperature	Date	Range in temperature
Nov. 29 to Dec. 1	0.0°C to 2.0°C	Mar. 4-8.....	1.5°C to 5.0°C	May 15-17.....	4.5°C to 14.0°C
Jan. 8-14.....	1.0°C to 3.5°C	13-15.....	2.0°C to 5.5°C	21-24.....	5.5°C to 14.5°C
22-25.....	1.0°C to 3.0°C	19-22.....	1.5°C to 7.0°C	28-31.....	5.5°C to 14.5°C
Jan. 30 to Feb. 1	1.5°C to 3.0°C	27-29.....	2.0°C to 8.0°C	June 17-21.....	10.0°C to 19.0°C
Feb. 6-9.....	1.5°C to 4.5°C	Apr. 3-5.....	2.0°C to 9.0°C	24-29.....	10.5°C to 18.0°C
12-15.....	1.5°C to 3.5°C	10-20.....	1.5°C to 8.5°C	July 1-27.....	9.5°C to 19.0°C
20-22.....	1.5°C to 4.5°C	Apr. 23 to May 10	2.0°C to 10.5°C	Sept. 4-7.....	6.0°C to 14.0°C
Feb. 26 to Mar. 1	1.5°C to 5.5°C				

No record Dec. 23-28, June 2-10, 12-15. Water year 1971: No record Feb. 3-7, Apr. 27. Clock stopped Apr. 11-12, Sept. 11-13; range in temperature, 1.0°C to 4.5°C and 7.0°C to 15.0°C, respectively.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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. 05...	0945	4.2	32	30	12	4.2	5.3	2.0	74	0	61	1.8

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	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 (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
NOV. 05...	.0	.0	.29	.39	.00	.28	.57	.05	.02	96	.13

DATE	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	DISSOLVED BORON (B) (UG/L)
NOV. 05...	1.09	47	0	19	.3	121	7.7	1.0	1	.6	0

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
NOV. 05...	0945	4.2	74	0	61	118	8.0	1.0	11.3	101	46	12

10343500 SAGEHEN CREEK NEAR TRUCKEE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	5.5	6.0	2.0	---	---	1.5	1.0	---	---	---	---
2	10.0	5.5	6.0	2.0	3.0	0.0	1.5	1.0	4.5	1.5	3.5	2.0
3	7.0	4.0	6.5	3.0	3.0	0.0	1.5	1.0	4.5	2.0	3.0	2.0
4	8.0	2.0	7.0	3.5	2.0	0.0	1.5	1.0	4.5	2.0	---	---
5	8.0	2.0	6.0	3.0	2.0	0.0	1.5	1.0	5.0	2.0	---	---
6	8.0	2.0	4.5	3.0	3.5	1.0	2.0	1.0	---	---	---	---
7	9.0	3.0	4.0	2.0	3.0	0.5	3.0	1.5	---	---	---	---
8	8.5	5.0	4.5	2.0	3.5	1.0	---	---	---	---	---	---
9	8.5	4.0	4.0	0.5	3.5	0.5	---	---	---	---	5.0	2.0
10	8.5	4.5	4.5	0.5	2.0	0.5	---	---	5.0	3.0	4.5	1.5
11	6.5	3.0	5.0	1.0	3.0	1.0	---	---	5.0	2.0	6.5	3.5
12	6.0	1.5	5.0	1.5	3.5	1.5	---	---	---	---	6.5	3.0
13	6.0	2.0	5.0	1.5	3.5	1.5	---	---	---	---	---	---
14	5.0	3.5	5.0	1.5	3.5	1.0	---	---	---	---	---	---
15	6.0	4.5	4.5	1.5	4.0	1.0	3.5	1.5	---	---	---	---
16	6.0	1.0	4.0	1.5	3.5	1.0	2.0	1.5	3.0	1.5	6.0	3.0
17	5.5	1.0	2.0	0.0	4.0	1.0	3.0	2.0	2.0	1.5	5.0	1.5
18	5.0	3.5	3.5	0.0	4.5	3.0	3.5	2.0	2.0	1.5	5.5	1.5
19	5.5	1.0	4.0	0.5	3.5	1.0	3.0	2.0	3.0	1.5	---	---
20	6.5	1.5	4.0	0.5	1.5	1.0	3.0	1.5	---	---	---	---
21	7.0	3.0	4.5	1.0	2.0	0.5	1.5	1.0	---	---	---	---
22	8.0	3.0	3.5	0.5	2.0	0.0	---	---	---	---	---	---
23	8.0	3.5	3.5	0.0	---	---	---	---	4.5	1.5	8.0	3.0
24	7.0	4.0	3.5	0.5	---	---	---	---	5.0	2.0	7.0	2.0
25	6.5	3.0	3.5	0.5	---	---	---	---	5.0	1.5	6.5	2.0
26	7.0	3.0	3.0	0.5	---	---	3.5	1.0	---	---	6.0	2.0
27	6.5	4.0	3.0	0.0	---	---	3.0	1.0	---	---	---	---
28	6.0	2.0	2.0	0.0	---	---	1.5	1.0	---	---	---	---
29	6.0	1.5	---	---	1.5	1.5	3.0	1.5	---	---	---	---
30	6.0	2.0	---	---	1.5	1.0	---	---	---	---	6.5	2.0
31	6.0	2.0	---	---	1.5	1.0	---	---	---	---	8.0	1.5
MONTH	11.0	1.0	7.0	0.0	---	---	---	---	---	---	---	---

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

10343500 SAGEHEN CREEK NEAR TRUCKEE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	0.5	5.5	1.0	6.0	2.0	15.5	6.0	19.5	10.5	14.0	5.0
2	4.5	1.0	4.5	1.5	10.0	1.5	15.0	6.0	19.0	10.0	14.0	8.0
3	5.0	1.0	4.5	1.5	10.0	2.0	15.0	6.0	19.0	10.0	14.0	5.5
4	5.0	1.0	4.5	1.5	10.5	2.0	15.0	6.0	19.0	9.5	13.5	5.5
5	4.5	1.5	4.5	1.5	11.5	3.0	15.5	6.5	19.0	9.5	14.0	6.0
6	3.5	1.5	3.5	1.5	13.5	3.5	15.5	6.5	19.0	9.5	13.5	8.0
7	3.5	1.5	5.0	1.5	13.5	4.0	15.5	6.5	18.5	9.0	13.0	5.0
8	4.5	0.5	4.0	1.5	11.0	3.5	15.5	6.5	19.0	9.0	13.0	5.0
9	4.5	1.0	5.5	1.5	9.5	3.5	15.5	6.0	18.5	9.5	13.0	6.0
10	3.5	1.0	7.0	1.0	12.0	4.5	15.0	6.5	18.5	9.5	13.0	5.0
11	---	---	6.5	1.5	13.5	3.5	15.0	5.0	15.5	9.5	---	---
12	---	---	7.0	1.5	10.5	4.0	16.0	6.0	18.0	9.0	---	---
13	4.0	1.0	7.0	2.0	13.0	4.0	16.5	6.5	17.0	9.0	---	---
14	4.0	1.0	9.0	1.5	14.0	4.0	17.0	8.5	16.5	7.0	14.5	5.0
15	5.0	1.0	9.5	1.0	14.5	4.5	17.0	8.5	16.5	8.0	13.5	6.0
16	4.5	1.0	9.0	1.0	14.5	4.5	18.0	9.5	16.5	8.0	13.5	6.0
17	3.5	0.0	9.0	0.5	14.0	4.5	16.5	9.5	16.0	7.0	11.5	5.5
18	3.5	0.5	10.0	1.0	13.5	5.5	17.0	10.5	16.5	7.0	10.5	3.5
19	5.5	0.5	10.0	1.5	13.0	6.0	18.0	9.5	16.5	8.0	11.0	3.0
20	3.5	0.5	10.5	2.0	15.0	5.0	16.5	10.0	15.5	6.5	11.5	4.0
21	4.0	0.5	3.5	1.0	14.5	5.5	16.5	9.5	15.0	5.5	10.5	4.0
22	4.0	0.5	10.5	1.0	15.0	5.5	18.0	9.0	14.5	5.5	11.0	4.0
23	5.5	0.5	11.5	2.0	14.5	6.0	18.0	9.0	15.5	6.5	11.0	4.5
24	3.5	0.0	11.0	3.0	14.5	6.0	18.5	9.0	15.0	7.0	10.5	4.5
25	3.0	1.0	11.0	3.0	13.0	5.5	18.5	9.0	14.0	8.5	10.0	5.5
26	4.0	0.5	11.0	4.0	10.5	7.0	19.0	10.0	15.0	9.0	8.5	4.5
27	---	---	5.0	3.5	13.5	5.0	19.0	9.5	15.5	8.5	8.5	3.5
28	6.5	1.0	6.5	3.0	13.5	5.0	19.5	10.0	15.0	8.0	8.5	4.0
29	6.0	0.5	6.0	2.0	14.5	5.0	19.0	10.5	15.0	8.0	6.0	1.5
30	6.0	1.0	6.0	2.0	15.0	5.5	19.0	10.0	14.0	8.0	5.0	1.0
31	---	---	5.5	1.5	---	---	19.5	10.5	14.5	8.5	---	---
MONTH	6.5	0.0	11.5	0.5	15.0	1.5	19.5	5.0	19.5	5.5	14.5	1.0

10343500 SAGEHEN CREEK NEAR TRUCKEE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	2.0	9.5	2.0	14.5	6.0	19.0	8.5	17.0	7.0	13.0	8.5
2	4.0	2.0	10.0	2.0	14.0	6.5	18.0	8.0	17.0	7.0	13.0	8.0
3	6.5	1.5	9.5	2.0	14.0	6.0	18.0	7.0	17.0	7.0	14.5	7.0
4	4.5	3.0	10.0	2.0	13.5	5.5	18.5	8.0	17.0	8.5	11.5	8.5
5	3.0	1.0	10.0	2.0	15.0	6.0	18.5	9.0	18.0	8.5	13.5	9.0
6	4.0	1.5	10.0	2.0	13.5	7.0	18.0	8.5	18.0	8.5	12.0	6.5
7	5.5	0.5	9.0	3.0	11.0	7.0	13.5	6.5	16.5	9.0	13.5	6.5
8	5.5	1.0	9.5	3.0	11.5	7.0	16.5	6.0	18.0	9.0	14.0	6.5
9	6.0	1.0	9.0	2.0	13.0	7.0	15.5	7.0	18.5	9.0	13.5	6.5
10	5.0	1.5	9.5	3.0	11.5	5.5	17.0	7.0	18.0	9.0	12.0	7.0
11	3.0	1.0	10.5	3.0	14.0	3.5	18.0	7.0	17.0	9.0	9.0	4.5
12	1.5	1.0	11.5	3.5	14.5	5.5	19.0	8.5	16.5	9.0	10.5	4.0
13	3.0	0.5	11.5	3.5	15.5	6.0	19.5	8.5	15.5	7.0	11.0	4.0
14	4.5	0.5	11.0	4.0	16.0	6.5	20.0	9.0	15.5	8.0	11.5	5.0
15	5.5	0.5	11.5	5.0	16.0	6.5	20.0	10.0	14.0	6.5	12.0	5.5
16	5.5	1.5	12.0	4.5	16.0	6.0	20.0	10.0	14.0	6.5	12.0	5.5
17	5.5	1.0	11.0	4.5	16.0	6.5	20.0	10.0	15.5	6.5	12.0	5.5
18	5.5	1.0	10.5	3.5	17.0	7.0	19.5	10.0	15.5	8.0	12.0	6.5
19	6.0	1.0	6.5	4.0	17.0	7.0	18.0	9.0	15.0	7.0	11.0	6.0
20	7.0	1.0	8.0	4.0	16.5	7.0	15.0	7.0	15.0	7.0	10.5	4.5
21	8.0	1.5	8.0	3.5	16.5	6.5	13.5	6.5	15.0	6.5	11.0	5.0
22	8.0	1.5	11.0	3.5	16.5	7.0	17.0	6.5	15.0	6.0	10.5	5.0
23	7.0	2.0	11.5	3.5	15.5	4.5	17.0	8.0	15.0	6.5	9.0	4.0
24	6.5	1.5	12.0	3.5	14.5	5.5	17.0	8.0	15.0	7.0	9.5	3.5
25	8.0	1.5	13.0	4.5	15.0	5.5	17.0	7.0	15.0	6.5	8.0	3.0
26	8.5	1.5	14.0	5.0	14.0	6.5	16.5	7.0	15.0	6.5	8.5	6.0
27	9.0	2.0	14.0	5.5	17.0	7.0	17.0	6.0	15.5	7.0	9.0	6.5
28	8.5	3.0	14.5	6.0	18.5	8.5	18.5	8.0	15.5	8.0	10.0	4.5
29	8.5	1.5	15.0	6.0	19.0	8.5	17.0	9.0	14.5	8.5	10.0	4.5
30	9.0	1.5	15.0	5.5	19.0	8.0	17.0	11.0	13.5	8.5	10.5	5.0
31	---	---	14.5	5.5	---	---	18.5	9.5	14.0	8.0	---	---
MONTH	9.0	0.5	15.0	2.0	19.0	3.5	20.0	6.0	18.5	6.0	14.5	3.0

10343500 SAGEHEN CREEK NEAR TRUCKEE, CALIF.--Continued

SUSPENDED SEDIMENT DISCHARGE MEASUREMENTS,
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.					
01...	1610	6.0	5.7	4	.06
04...	0800	3.0	4.4	1	.01
20...	1330	7.0	4.8	1	.01
26...	1515	6.0	4.4	1	.01
NOV.					
05...	0945	1.0	4.2	2	.02
08...	1335	5.0	4.6	1	.01
15...	1325	2.0	5.4	1	.01
23...	0825	1.0	4.8	1	.01
29...	0925	2.0	6.1	1	.02
DEC.					
06...	1055	2.0	5.4	1	.01
13...	0850	1.0	5.4	1	.01
20...	1025	1.0	4.6	1	.01
JAN.					
03...	1110	1.0	4.8	1	.01
10...	0815	1.0	4.6	1	.01
10...	1230	1.5	4.6	1	.01
17...	0845	2.0	4.4	1	.01
24...	1045	.0	5.0	2	.03
31...	1400	.0	4.3	1	.01
FEB.					
04...	1040	2.0	4.4	4	.05
07...	0850	.0	4.1	1	.01
08...	1050	1.5	4.2	2	.02
21...	1010	4.0	5.4	7	.10
28...	0820	2.0	6.3	2	.03
MAR.					
06...	1130	4.0	14	4	.15
13...	0955	2.0	17	2	.09
13...	1045	2.5	17	2	.09
20...	0910	2.0	20	4	.22
27...	0935	1.0	16	3	.13
APR.					
03...	0915	3.0	16	2	.09
10...	1630	6.0	21	3	.17
17...	1115	5.0	20	3	.16
17...	1200	5.0	20	1	.05
23...	0830	3.0	21	2	.11
MAY					
01...	0810	2.0	26	3	.21
08...	0810	4.0	29	4	.31
15...	0815	6.0	27	2	.15
22...	0820	5.0	23	1	.06
29...	0850	8.0	21	2	.11
JUNE					
05...	0900	9.0	21	3	.17
06...	0800	8.0	21	4	.23
12...	0830	10.0	16	2	.09
19...	1045	15.0	11	2	.06
26...	0825	8.0	8.4	5	.11
JULY					
05...	1230	16.0	5.2	1	.01
10...	1055	11.0	4.8	2	.03
17...	1500	21.0	3.3	6	.05
24...	1020	13.0	3.6	3	.03
31...	1010	13.0	3.3	1	.01
AUG.					
03...	1145	12.5	3.1	3	.03
07...	0730	10.0	3.0	2	.02
15...	0815	7.5	2.8	1	.01
21...	1015	11.0	2.8	8	.06
SEP.					
06...	0925	8.5	3.4	2	.02

10346000 TRUCKEE RIVER AT FARAD, CALIF.
(Irrigation network station)
(Formerly published as 11345900 Truckee River at Floriston, Calif.)

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 mile downstream from Farad hydroelectric powerplant, 2.5 miles north of Floriston, and 3.5 miles upstream from California-Nevada State line.

DRAINAGE AREA.--932 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1964 to September 1969, October 1969 to September 1972.
Water temperatures: January 1964 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum daily, 129 micromhos Feb. 27; minimum daily, 58 micromhos May 28.
Water temperatures: Maximum recorded, 19.0°C July 29, Aug. 2, 3, 11, 12; minimum recorded, freezing point Dec. 31, Jan. 9.

Period of record:
Specific conductance (1964-66, 1967-69, 1970-72): 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 Truckee River at Floriston (sta 11345900), which was operated 2.5 miles upstream. Daily specific conductance and temperature data are collected at Farad powerplant, 0.7 mile upstream from gage.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	TEMP-ERATURE (DEG C)	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)
OCT.										
19...	1045	1040	8.5	16	7.8	2.0	4.5	1.5	45	0
NOV.										
26...	1415	447	5.5	--	8.4	2.8	5.9	--	58	0
DEC.										
20...	1050	450	.5	--	9.5	3.1	6.1	--	55	0
JAN.										
24...	0955	405	.0	17	9.6	3.2	6.9	1.6	55	0
FEB.										
23...	1310	492	4.5	18	11	3.3	10	1.9	68	0
MAR.										
21...	1100	892	7.0	18	8.7	2.4	4.2	1.4	45	0
APR.										
17...	1330	873	8.0	17	7.3	2.4	5.0	1.2	44	0
MAY										
23...	1055	1040	9.0	17	7.2	2.1	3.4	1.3	42	0
JUNE										
20...	1455	484	16.5	17	7.6	2.2	3.6	1.4	41	0
JULY										
17...	1405	527	20.0	16	8.8	2.7	5.9	1.8	53	0
AUG.										
24...	0900	536	15.0	15	9.7	2.8	6.6	1.7	55	0
SEP.										
19...	0930	508	12.0	15	8.8	2.6	5.4	1.6	52	0

10346000 TRUCKEE RIVER AT FARAD, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
OCT.									
19...	2.8	1.7	.0	.03	.000	.03	.11	.15	.29
NOV.									
26...	--	3.0	--	.01	.000	.01	--	--	--
DEC.									
20...	--	3.4	--	.03	.000	.03	--	--	--
JAN.									
24...	2.8	5.5	.0	.04	.000	.04	.01	.24	.29
FEB.									
23...	4.4	6.1	--	.06	--	--	--	--	--
MAR.									
21...	2.5	4.5	--	.08	--	--	--	--	--
APR.									
17...	3.4	3.7	.3	.02	.000	.02	.01	.18	.21
MAY									
23...	2.9	3.4	--	.02	--	--	--	--	--
JUNE									
20...	5.1	1.1	--	.02	--	--	--	--	--
JULY									
17...	3.3	2.4	--	.04	--	--	--	--	--
AUG.									
24...	4.0	3.2	.1	.02	.000	.02	.01	.14	.17
SEP.									
19...	4.2	5.1	--	.02	--	--	--	--	--

DATE	DIS-SOLVED ORTHO. PHOS-PHORUS (P) (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 DAY)	HARD-NESS (CA,MG) (MG/L)	SODIUM AD-SORP-TION RATIO	SPECI-FIC COND-UCTANCE (MICRO-MHOS)	PH (UNITS)
OCT.									
19...	.000	.080	--	59	166	28	.4	79	7.5
NOV.									
26...	.010	--	72	--	86.9	32	.5	101	7.5
DEC.									
20...	.010	--	64	--	77.8	36	.4	104	7.7
JAN.									
24...	.010	.050	--	74	80.9	37	.5	111	7.4
FEB.									
23...	.010	--	--	88	117	41	.7	112	8.2
MAR.									
21...	.000	--	--	64	154	32	.3	84	7.6
APR.									
17...	.020	.11	--	62	146	28	.4	84	7.6
MAY									
23...	.010	--	--	58	163	27	.3	82	7.9
JUNE									
20...	.000	--	--	58	75.8	28	.3	75	8.0
JULY									
17...	.000	--	--	67	95.3	33	.4	96	7.0
AUG.									
24...	.000	.030	--	70	101	36	.5	98	7.6
SEP.									
19...	.010	--	--	68	93.3	33	.4	94	7.1

10346000 TRUCKEE RIVER AT FARAD, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	95	94	---	106	122	93	74	---	89	102	101
2	71	97	99	---	---	116	93	---	---	89	100	100
3	72	98	95	---	---	111	96	69	---	89	100	100
4	71	100	94	---	95	95	91	70	63	---	100	100
5	73	100	93	---	98	97	87	69	65	90	102	100
6	74	100	100	---	102	100	86	67	64	---	103	99
7	74	100	97	99	102	95	85	69	65	---	99	92
8	73	99	---	---	104	92	81	71	64	93	100	92
9	72	99	94	93	104	87	79	---	66	95	99	91
10	72	---	96	93	115	86	80	70	68	94	105	91
11	72	---	98	---	111	87	83	68	71	94	100	92
12	78	94	94	94	112	85	84	68	71	---	99	88
13	78	100	---	---	111	86	86	66	72	---	---	88
14	75	96	94	---	111	84	92	64	70	---	92	87
15	80	101	95	103	---	85	89	65	70	---	89	88
16	---	97	118	102	111	---	88	---	71	94	90	87
17	78	96	100	102	112	84	87	65	---	99	---	88
18	81	98	98	101	112	82	---	66	71	98	---	88
19	76	95	97	104	113	83	84	71	---	99	90	90
20	---	95	97	104	115	83	84	71	76	98	90	89
21	72	95	98	106	115	82	83	72	79	98	---	91
22	68	---	108	107	125	78	84	73	76	98	96	87
23	87	96	---	119	116	84	84	72	75	100	94	89
24	75	97	107	---	117	93	---	69	75	99	---	90
25	79	98	101	---	116	---	---	68	76	99	96	89
26	75	97	---	104	122	84	---	---	78	---	95	90
27	96	92	96	---	129	85	---	61	---	---	97	90
28	100	97	---	101	122	89	---	58	86	101	96	92
29	---	96	---	104	117	88	77	59	85	100	---	---
30	96	98	---	---	---	90	77	---	---	100	99	90
31	97	---	111	---	---	90	---	61	---	99	100	---
MONTH	78	97	---	---	112	90	86	68	---	---	97	92

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.0	5.5	3.0	---	1.0	3.0	6.0	7.0	---	14.5	18.5	15.5
2	9.0	6.5	3.0	---	---	6.5	6.0	---	---	18.0	19.0	16.0
3	9.5	5.5	3.0	---	---	5.5	7.0	8.0	---	18.0	19.0	15.0
4	10.5	6.0	2.5	---	2.0	5.0	8.0	8.0	11.0	---	18.0	15.0
5	11.0	5.5	4.0	---	3.5	3.5	6.0	7.5	12.0	18.0	18.0	17.0
6	10.5	5.5	4.5	---	4.0	6.5	5.0	7.5	12.0	---	18.0	17.0
7	10.0	5.0	1.5	1.0	3.0	4.0	5.0	9.0	11.0	---	18.0	14.5
8	11.0	5.0	---	---	2.5	4.0	6.0	7.5	11.0	12.0	18.0	13.5
9	10.5	6.0	2.0	0.0	2.0	4.5	7.0	---	10.0	14.0	18.5	16.5
10	13.5	---	2.0	2.0	2.0	7.5	7.0	9.0	9.0	14.0	18.5	15.5
11	14.0	---	1.0	---	2.0	6.5	6.0	8.0	8.0	16.0	19.0	14.0
12	13.5	6.0	1.0	2.5	4.5	4.5	5.0	8.0	10.0	---	19.0	10.0
13	11.0	5.5	---	---	4.5	5.0	4.0	8.0	12.0	---	---	12.0
14	11.5	3.0	0.5	---	4.0	4.0	4.5	8.0	12.0	---	15.0	11.5
15	9.0	4.0	0.5	1.0	4.0	4.0	6.5	11.0	14.0	---	13.0	14.5
16	---	4.0	0.5	1.0	---	---	8.0	---	14.0	17.5	14.0	15.0
17	8.0	4.0	1.0	1.5	2.5	5.0	8.0	11.0	16.5	15.0	---	14.5
18	8.0	3.5	0.5	4.5	3.0	5.0	---	10.0	16.0	14.0	---	14.5
19	11.5	3.0	1.0	4.0	4.5	7.0	6.0	7.0	---	15.5	15.0	12.5
20	---	4.5	1.0	4.0	5.0	8.0	6.0	7.5	14.0	14.5	14.0	13.5
21	8.5	4.0	2.5	5.0	5.0	7.5	10.0	7.0	15.0	17.0	---	14.5
22	9.5	---	2.5	5.0	4.0	5.5	10.0	10.5	12.5	18.0	15.0	14.0
23	8.0	4.5	---	3.0	3.5	3.0	7.5	8.0	14.0	15.5	17.5	11.5
24	9.5	6.5	2.0	.0	3.5	3.0	---	8.5	11.0	17.0	15.0	11.5
25	8.0	5.5	0.5	---	3.0	---	---	9.0	11.0	---	14.0	10.5
26	10.0	5.5	---	1.0	4.0	3.0	---	---	12.0	---	15.0	12.0
27	8.0	4.5	1.0	---	4.0	3.0	---	9.5	---	---	15.5	12.0
28	4.5	5.0	---	1.0	7.0	4.5	---	8.5	16.0	17.0	17.0	11.5
29	---	4.0	---	1.0	4.5	5.0	7.0	10.5	18.5	19.0	---	---
30	4.0	4.5	---	---	---	4.5	7.0	---	---	17.0	15.0	12.0
31	5.5	---	0.0	---	---	4.0	---	12.0	---	17.0	15.0	---
MONTH	9.5	5.0	---	---	3.5	5.0	6.5	8.5	12.5	---	16.5	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 mile west of Susanville, and 1.1 miles upstream from Piute Creek.

DRAINAGE AREA.--184 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-58 (partial-record station), October 1958 to September 1972.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	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)
OCT.								
13...	1300	--	15	--	--	--	--	--
NOV.								
17...	1600	--	20	--	--	--	--	--
DEC.								
07...	1030	--	20	5.5	95	0	78	.0
JAN.								
05...	1600	--	17	--	--	--	--	--
FEB.								
03...	1115	33	--	--	--	--	--	--
MAR.								
02...	1530	--	308	3.2	48	0	39	1.2
APR.								
06...	1325	--	319	--	--	--	--	--
MAY								
15...	1215	--	84	3.5	56	0	46	.6
JUNE								
01...	0630	--	137	2.9	38	0	31	.0
JULY								
17...	1245	121	--	--	--	--	--	--
AUG.								
10...	1145	--	21	--	--	--	--	--
SEP.								
06...	1310	--	6.8	--	--	--	--	--

DATE	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 BORON (B) (UG/L)
OCT.								
13...	--	--	--	--	--	12.0	1	--
NOV.								
17...	--	--	--	--	--	2.0	1	--
DEC.								
07...	68	0	.3	154	7.9	.5	--	0
JAN.								
05...	--	--	--	--	--	.5	1	--
FEB.								
03...	--	--	--	--	--	1.5	2	--
MAR.								
02...	36	0	.2	82	7.3	8.0	10	0
APR.								
06...	--	--	--	--	--	8.0	11	--
MAY								
15...	41	0	.2	94	7.6	12.5	1	0
JUNE								
01...	30	0	.2	71	7.3	13.0	10	0
JULY								
17...	--	--	--	--	--	25.0	4	--
AUG.								
10...	--	--	--	--	--	22.5	1	--
SEP.								
06...	--	--	--	--	--	20.0	0	--

10356500 SUSAN RIVER AT SUSANVILLE, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
13...	1300	--	15	155	7.8	12.0	10.2
NOV.							
17...	1600	--	20	150	7.5	2.0	12.2
DEC.							
07...	1030	--	20	149	7.4	.5	12.4
JAN.							
05...	1600	--	17	159	7.4	.5	12.8
FEB.							
03...	1115	33	--	143	7.5	1.5	12.8
MAR.							
02...	1530	--	308	85	7.3	8.0	10.3
APR.							
06...	1325	--	319	80	7.3	8.0	10.6
MAY							
15...	1215	--	84	92	7.9	12.5	9.5
JUNE							
01...	0630	--	137	--	7.2	13.0	10.0
JULY							
17...	1245	121	--	68	7.9	25.0	6.8
AUG.							
10...	1145	--	21	111	8.1	22.5	7.9
SEP.							
06...	1310	--	6.8	167	8.1	20.0	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 miles south of Nestor, and 2.9 miles upstream from mouth.

DRAINAGE AREA.--1,690 sq mi, of which 1,236 sq mi are in Mexico.

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

EXTREMES.--1971-72:
Sediment concentrations: No flow during year.
Sediment discharge: No flow during year.

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, 50 tons Mar. 1, 1970; minimum daily, 0 tons on many days each year.

REMARKS.--No flow during entire water year.

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 mile upstream from left tributary, and 6 miles west of Santee.

DRAINAGE AREA.--377 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1972.
Sediment records: October 1969 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 257 mg/l Oct. 18; minimum daily, 10 mg/l on several days.
Sediment discharge: Maximum daily, 39 tons Oct. 18; minimum daily, 0.03 ton on several days.

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, 338 tons Dec. 21, 1970; minimum daily, 0 tons on many days in 1969 and 1970.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.0	12.0	12.5	10.0	10.0	12.0	12.0	12.0	---	---	---	---
2	---	---	---	---	---	---	---	19.5	---	---	---	---
3	---	12.0	---	---	---	---	---	---	---	---	22.5	---
4	---	12.0	---	---	---	---	---	---	---	---	---	---
5	18.0	---	---	---	---	---	---	---	---	---	---	---
6	---	---	9.5	---	---	---	---	---	---	---	---	23.0
7	---	---	---	7.0	---	---	---	---	---	---	---	---
8	---	---	---	---	12.0	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	12.5	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	21.0	---	---	---
15	11.0	12.0	10.0	10.0	11.5	12.5	11.0	12.0	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	11.0	---	---	---	---	---	---	---	---	---
23	---	---	11.0	---	---	---	---	---	---	---	---	---
24	---	---	10.0	---	---	---	---	---	---	---	---	---
25	---	---	10.0	---	---	---	---	---	---	---	---	---
26	---	---	11.0	---	---	---	---	---	---	---	---	---
27	---	---	10.0	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.1	68	.39	4.8	81	1.0	4.0	48	.52
2	2.4	50	.32	4.9	85	1.1	3.9	45	.47
3	2.2	30	.18	4.9	85	1.1	7.3	60	1.2
4	2.4	20	.13	4.8	85	1.1	20	74	4.3
5	1.6	10	.04	4.6	85	1.1	8.1	35	.77
6	1.5	10	.04	4.5	80	.97	5.3	30	.43
7	1.1	10	.03	4.5	80	.97	6.8	35	.64
8	.97	10	.03	4.6	80	.99	6.4	30	.52
9	.97	10	.03	4.2	80	.91	4.9	25	.33
10	.94	10	.03	4.2	80	.91	4.7	20	.25
11	1.4	40	.15	4.3	80	.93	4.7	15	.19
12	1.2	35	.11	4.4	85	1.0	4.5	15	.18
13	1.1	30	.09	4.2	80	.91	6.8	50	.92
14	1.5	40	.16	4.1	80	.89	7.7	60	1.2
15	1.9	57	.29	3.9	79	.83	5.6	49	.74
16	19	150	14	4.1	80	.89	6.0	55	.89
17	36	210	30	3.8	75	.77	5.5	50	.74
18	34	257	39	3.9	75	.79	5.0	45	.61
19	6.8	100	1.8	3.9	70	.74	5.0	40	.54
20	4.3	85	.99	3.6	65	.63	5.0	35	.47
21	3.4	75	.69	3.7	65	.65	5.0	30	.41
22	2.8	50	.38	3.7	60	.60	15	55	2.2
23	3.2	55	.48	3.7	55	.55	35	50	4.7
24	3.7	60	.60	4.0	60	.65	20	40	2.2
25	6.6	95	1.7	4.2	65	.74	80	118	38
26	4.7	90	1.1	4.6	65	.81	120	90	35
27	3.0	65	.53	4.6	60	.75	40	53	6.6
28	3.3	70	.62	4.7	55	.70	90	125	30
29	4.2	80	.91	4.8	55	.71	25	70	4.7
30	4.7	85	1.1	4.4	50	.59	10	60	1.6
31	4.8	85	1.1	--	--	--	9.0	50	1.2
TOTAL	167.78	--	97.02	128.6	--	25.28	576.2	--	142.52

	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	8.0	47	1.0	8.6	50	1.2	5.8	48	.75
2	7.0	45	.85	8.3	50	1.1	5.7	45	.69
3	7.0	45	.85	7.7	45	.94	5.3	45	.64
4	6.0	45	.73	7.7	45	.94	5.1	40	.55
5	6.0	40	.65	8.4	50	1.1	5.3	45	.64
6	6.0	40	.65	12	80	2.6	5.0	40	.54
7	6.0	40	.65	9.8	70	1.9	4.7	40	.51
8	6.0	40	.65	7.9	65	1.4	5.7	50	.77
9	6.4	55	.95	8.2	65	1.4	5.5	50	.74
10	6.6	60	1.1	7.9	65	1.4	5.9	50	.80
11	6.3	60	1.0	7.6	60	1.2	6.3	55	.94
12	6.4	55	.95	7.6	60	1.2	5.9	50	.80
13	6.1	55	.91	7.7	55	1.1	6.4	55	.95
14	6.1	55	.91	7.5	55	1.1	6.2	50	.84
15	6.1	54	.89	6.6	51	.91	7.3	58	1.1
16	6.2	55	.92	6.4	50	.86	7.0	55	1.0
17	6.1	55	.91	6.9	55	1.0	7.0	55	1.0
18	5.7	50	.77	6.8	55	1.0	7.3	60	1.2
19	5.5	50	.74	7.0	60	1.1	7.7	65	1.4
20	5.7	55	.85	7.1	60	1.2	7.7	65	1.4
21	6.6	60	1.1	6.8	60	1.1	7.3	60	1.2
22	6.5	60	1.1	7.7	65	1.4	7.1	60	1.2
23	7.0	65	1.2	7.6	65	1.3	8.0	70	1.5
24	6.1	60	.99	7.5	60	1.2	8.5	80	1.8
25	8.9	70	1.7	7.4	55	1.1	8.3	75	1.7
26	7.4	65	1.3	7.4	55	1.1	8.5	80	1.8
27	6.6	60	1.1	7.5	55	1.1	8.0	75	1.6
28	6.3	55	.94	5.7	50	.77	7.1	70	1.3
29	6.5	50	.88	5.5	50	.74	7.4	75	1.5
30	9.3	60	1.5	--	--	--	6.8	70	1.3
31	9.0	55	1.3	--	--	--	6.2	70	1.2
TOTAL	205.4	--	30.04	220.8	--	34.46	206.0	--	33.36

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	5.6	65	.98	2.4	52	.34	1.5	40	.16
2	5.7	70	1.1	2.6	55	.39	1.8	45	.22
3	5.6	65	.98	2.4	55	.36	1.5	40	.16
4	5.1	60	.83	2.2	50	.30	1.6	40	.17
5	4.1	50	.55	2.2	50	.30	3.2	50	.43
6	3.8	40	.41	2.2	50	.30	3.4	55	.50
7	3.6	30	.29	2.6	55	.39	7.3	70	1.4
8	5.0	50	.68	3.0	60	.49	4.1	65	.72
9	11	90	2.7	2.6	55	.39	3.7	60	.60
10	9.2	80	2.0	2.4	55	.36	4.6	65	.81
11	6.5	70	1.2	2.2	50	.30	5.9	70	1.1
12	5.4	60	.87	2.4	55	.36	3.5	65	.61
13	4.5	55	.67	2.6	55	.39	3.5	60	.57
14	5.0	60	.81	2.6	50	.35	3.0	55	.45
15	5.0	50	.68	2.9	54	.42	3.0	50	.41
16	4.0	55	.59	2.6	50	.35	3.0	45	.36
17	3.3	50	.45	2.4	50	.32	3.2	45	.39
18	3.0	50	.41	2.1	45	.26	3.5	50	.47
19	2.8	50	.38	2.1	45	.26	3.5	45	.43
20	2.7	50	.36	6.4	60	1.0	3.4	40	.37
21	2.5	50	.34	7.1	70	1.3	12	80	2.6
22	2.3	50	.31	3.8	55	.56	4.9	70	.93
23	2.3	50	.31	3.4	55	.50	5.1	60	.83
24	2.3	50	.31	2.9	50	.39	6.2	65	1.1
25	2.3	50	.31	2.7	50	.36	5.9	65	1.0
26	2.4	55	.36	2.7	50	.36	5.8	60	.94
27	2.5	55	.37	2.1	45	.26	5.1	60	.83
28	2.2	50	.30	2.1	45	.26	4.2	55	.62
29	2.2	50	.30	2.6	50	.35	3.2	50	.43
30	2.2	50	.30	2.6	50	.35	3.0	45	.36
31	--	--	--	1.5	45	.18	--	--	--
TOTAL	124.1	--	20.15	86.4	--	12.50	123.6	--	19.97

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.2	45	.39	1.1	15	.04	2.2	15	.09
2	3.7	50	.50	1.1	10	.03	2.7	15	.11
3	3.2	45	.39	1.1	10	.03	3.2	20	.17
4	3.0	45	.36	1.1	10	.03	3.4	20	.18
5	2.8	40	.30	1.4	15	.06	3.2	15	.13
6	2.6	40	.28	2.2	20	.12	3.2	10	.09
7	2.1	35	.20	2.6	25	.18	6.4	60	1.0
8	1.8	35	.17	2.1	20	.11	4.9	55	.73
9	2.1	35	.20	1.5	20	.08	4.4	55	.65
10	2.6	40	.28	1.3	15	.05	4.8	60	.78
11	2.6	40	.28	1.3	15	.05	4.1	60	.66
12	2.6	35	.25	1.2	15	.05	3.7	55	.55
13	2.2	35	.21	1.3	10	.04	3.8	55	.56
14	2.1	30	.17	1.8	15	.07	3.9	55	.58
15	2.1	25	.14	2.1	20	.11	3.8	55	.56
16	2.2	25	.15	1.9	20	.10	3.6	50	.49
17	2.4	30	.19	1.5	15	.06	3.6	50	.49
18	1.9	25	.13	1.5	15	.06	3.8	55	.56
19	1.8	25	.12	1.5	15	.06	3.5	55	.52
20	1.4	20	.08	1.9	20	.10	3.0	50	.41
21	1.5	25	.10	1.8	20	.10	3.2	50	.43
22	1.6	25	.11	1.3	15	.05	3.2	45	.39
23	2.2	30	.18	1.1	15	.04	2.9	45	.35
24	2.7	30	.22	1.1	10	.03	3.0	45	.36
25	2.4	25	.16	1.1	10	.03	3.2	50	.43
26	1.5	25	.10	1.4	15	.06	2.9	45	.35
27	1.3	20	.07	2.4	20	.13	2.7	45	.33
28	1.3	20	.07	2.4	20	.13	2.4	40	.26
29	1.2	20	.06	2.1	20	.11	2.2	40	.24
30	1.1	15	.04	2.1	15	.09	2.4	40	.26
31	1.1	15	.04	1.9	15	.08	--	--	--
TOTAL	66.3	--	5.94	50.2	--	2.28	103.3	--	12.71

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 2058.68
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 436.23

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 mile upstream from bridge on U.S. Highway 101, 1.1 miles upstream from mouth, and 1.2 miles north of Oceanside.

DRAINAGE AREA.--558 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1972.
Sediment records: October 1968 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 63 mg/l Dec. 26; minimum daily, 2 mg/l on several days.
Sediment discharge: Maximum daily, 6.8 tons Dec. 26; minimum daily, 0.02 ton on several days.

Period of record:
Sediment concentrations (1969-72): Maximum daily, 1,220 mg/l Mar. 2, 1970; minimum daily, 2 mg/l on several days in 1972.
Sediment discharge (1969-72): Maximum daily, 943 tons Mar. 2, 1970; minimum daily, 0.01 ton Nov. 4, 1969.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	24.0	24.0
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	12.0	12.0	---	---	---	---	---	---	---	---	---
4	---	---	11.0	8.0	9.5	---	---	---	---	---	---	---
5	---	---	9.0	7.0	---	---	17.0	17.0	---	---	---	---
6	---	---	---	8.5	12.0	15.5	---	---	---	19.0	---	23.5
7	16.0	---	6.0	8.5	---	---	---	---	---	---	---	---
8	---	---	5.5	9.0	---	---	---	---	18.5	---	---	---
9	---	---	6.0	---	---	---	---	---	---	---	---	---
10	---	---	8.0	9.5	---	---	---	---	---	---	---	---
11	---	---	5.5	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	6.5	---	---	---	---	---	---	---	---	---
14	16.5	---	6.5	12.0	---	---	---	---	---	---	---	---
15	---	---	6.5	12.0	14.5	---	---	---	---	---	22.0	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	5.5	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	11.5	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	10.0	---	---	---	---	---	---	22.0	---	---
23	---	---	13.0	---	---	---	---	---	---	---	---	---
24	---	---	14.0	---	---	---	---	---	---	---	---	---
25	---	---	14.0	---	---	---	---	---	---	---	---	---
26	---	---	13.0	---	---	---	---	---	---	---	---	---
27	---	---	10.5	---	---	---	---	---	---	---	---	---
28	---	---	10.0	---	---	---	---	---	---	---	---	---
29	---	---	10.0	---	---	---	---	---	---	---	---	---
30	---	13.5	8.0	---	---	---	---	---	---	---	---	---
31	---	---	8.5	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	4.0	5	.05	4.6	2	.02	5.1	6	.08
2	4.0	5	.05	4.9	2	.03	5.1	8	.11
3	3.6	5	.05	5.1	2	.03	5.3	10	.14
4	3.2	4	.03	4.9	2	.03	5.5	20	.30
5	3.1	4	.03	4.9	2	.03	5.3	6	.09
6	3.1	4	.03	4.7	2	.03	5.3	4	.06
7	3.4	4	.04	3.8	2	.02	5.5	2	.03
8	3.6	3	.03	4.0	2	.02	5.3	4	.06
9	3.6	3	.03	4.7	3	.04	5.3	6	.09
10	3.6	3	.03	4.7	3	.04	5.3	3	.04
11	3.4	2	.02	5.1	3	.04	5.3	9	.13
12	4.0	3	.03	5.3	4	.06	5.1	6	.08
13	4.0	3	.03	5.1	4	.06	5.3	4	.06
14	4.0	3	.03	3.8	3	.03	5.3	4	.06
15	4.4	3	.04	4.6	3	.04	5.5	4	.06
16	4.6	4	.05	4.7	3	.04	5.5	4	.06
17	5.1	4	.06	4.9	4	.05	5.5	3	.04
18	4.7	4	.05	5.3	4	.06	5.5	3	.04
19	4.4	4	.05	5.5	4	.06	5.3	3	.04
20	4.7	4	.05	5.3	4	.06	5.3	3	.04
21	4.7	4	.05	4.9	3	.04	5.1	2	.03
22	4.7	4	.05	4.7	3	.04	6.2	2	.03
23	4.9	4	.05	4.6	3	.04	7.9	3	.06
24	4.7	3	.04	4.6	3	.04	17	10	.54
25	4.0	3	.03	4.7	3	.04	38	55	6.0
26	3.8	3	.03	4.6	3	.04	38	63	6.8
27	4.6	3	.04	4.9	4	.05	26	10	.70
28	4.7	2	.03	5.3	4	.06	27	10	.81
29	4.7	2	.03	5.3	4	.06	32	10	.86
30	4.6	2	.02	5.3	4	.06	21	15	.85
31	4.6	2	.02	--	--	--	15	10	.41
TOTAL	128.5	--	1.17	144.8	--	1.26	339.8	--	18.70

	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	12	.39	6.2	9	.15	7.6	22	.45
2	10	13	.35	6.4	9	.16	7.3	22	.43
3	9.0	13	.32	6.4	9	.16	7.3	22	.43
4	8.4	13	.29	6.2	9	.15	7.3	22	.43
5	7.1	12	.23	5.7	9	.14	7.1	21	.40
6	6.6	12	.21	6.9	8	.15	7.1	21	.40
7	6.9	12	.22	6.9	8	.15	8.1	25	.55
8	6.9	9	.17	6.9	8	.15	7.6	23	.47
9	6.4	9	.16	7.3	11	.22	7.3	21	.41
10	6.0	9	.15	7.6	15	.31	7.1	21	.40
11	5.7	8	.12	7.1	14	.27	6.9	20	.37
12	6.2	8	.13	7.1	14	.27	6.9	20	.37
13	7.6	9	.18	6.9	14	.26	6.9	20	.37
14	7.3	9	.18	6.9	13	.24	6.9	21	.39
15	6.4	15	.26	6.9	13	.24	7.1	22	.42
16	6.2	13	.22	7.1	13	.25	7.1	22	.42
17	7.1	15	.29	7.3	14	.28	7.1	22	.42
18	7.3	15	.30	7.6	15	.31	6.9	21	.39
19	7.1	13	.25	7.1	14	.27	6.4	20	.35
20	7.1	11	.21	7.1	14	.27	6.0	20	.32
21	7.1	11	.21	7.1	13	.25	5.7	18	.28
22	6.6	10	.18	6.9	13	.24	5.7	18	.28
23	6.4	10	.17	6.9	13	.24	5.7	18	.28
24	6.2	9	.15	7.3	15	.30	6.0	20	.32
25	6.2	9	.15	7.8	20	.42	6.0	20	.32
26	6.4	10	.17	8.1	25	.55	5.5	20	.30
27	6.4	10	.17	7.8	24	.51	5.3	15	.21
28	6.6	10	.18	7.8	23	.48	5.1	15	.21
29	6.9	11	.20	7.8	22	.46	5.3	15	.21
30	6.4	10	.17	--	--	--	5.5	15	.22
31	6.2	10	.17	--	--	--	5.3	15	.21
TOTAL	218.7	--	6.55	205.1	--	7.85	203.1	--	11.03

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	5.1	15	.21	4.0	15	.16	3.2	10	.09
2	4.9	15	.20	4.6	15	.19	3.4	10	.09
3	4.7	15	.19	5.1	15	.21	3.4	10	.09
4	4.6	15	.19	4.6	15	.19	3.4	10	.09
5	4.7	15	.19	4.4	15	.18	3.4	10	.09
6	4.6	15	.19	4.4	15	.18	3.8	10	.10
7	4.7	15	.19	4.2	15	.17	4.4	15	.18
8	4.6	15	.19	4.0	15	.16	4.9	15	.20
9	4.4	15	.18	4.2	15	.17	5.3	15	.21
10	4.2	15	.17	4.6	15	.19	4.9	15	.20
11	4.2	15	.17	4.6	15	.19	4.4	15	.18
12	4.6	15	.19	5.1	15	.21	4.2	15	.17
13	5.1	15	.21	5.1	15	.21	4.2	15	.17
14	5.1	15	.21	4.4	15	.18	4.6	15	.19
15	4.7	15	.19	3.8	15	.15	4.7	15	.19
16	4.6	15	.19	3.6	15	.15	4.6	15	.19
17	4.6	15	.19	4.0	15	.16	4.7	15	.19
18	4.6	15	.19	4.2	15	.17	4.9	15	.20
19	4.9	15	.20	3.8	10	.10	5.3	15	.21
20	5.1	15	.21	3.4	10	.09	4.6	15	.19
21	4.9	15	.20	3.2	10	.09	4.4	15	.18
22	5.1	15	.21	3.4	10	.09	4.2	15	.17
23	4.4	15	.18	3.8	10	.10	4.0	15	.16
24	4.2	15	.17	4.4	15	.18	3.6	10	.10
25	4.2	15	.17	4.4	15	.18	3.2	10	.09
26	4.6	15	.19	4.2	15	.17	3.1	10	.08
27	4.6	15	.19	3.8	15	.15	3.1	10	.08
28	4.0	15	.16	3.4	10	.09	3.4	10	.09
29	4.2	15	.17	3.2	10	.09	4.2	15	.17
30	4.0	15	.16	3.1	10	.08	4.6	15	.19
31	--	--	--	3.2	10	.09	--	--	--
TOTAL	138.2	--	5.65	126.2	--	4.72	124.1	--	4.53

	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	15	.17	4.0	46	.50	4.6	35	.43
2	4.0	15	.16	4.2	48	.54	4.4	35	.42
3	3.8	15	.15	4.4	50	.59	4.0	30	.32
4	3.6	15	.15	4.6	55	.68	3.8	25	.26
5	3.8	15	.15	4.6	50	.62	3.6	20	.19
6	4.2	16	.18	4.4	45	.53	3.8	22	.23
7	4.6	20	.25	4.2	45	.51	4.2	25	.28
8	4.4	18	.21	4.4	50	.59	4.6	30	.37
9	4.0	16	.17	4.7	55	.70	5.1	35	.48
10	4.0	20	.22	4.7	60	.76	5.1	40	.55
11	4.0	25	.27	4.7	55	.70	4.9	40	.53
12	4.4	30	.36	4.7	55	.70	4.7	35	.44
13	4.6	40	.50	4.6	55	.68	5.1	40	.55
14	4.7	50	.63	4.4	55	.65	4.9	35	.46
15	4.7	52	.66	4.2	55	.62	4.2	33	.37
16	4.2	50	.57	4.6	55	.68	4.4	35	.42
17	3.8	45	.46	4.9	60	.79	4.4	35	.42
18	3.4	45	.41	4.9	55	.73	4.4	30	.36
19	4.4	50	.59	4.6	50	.62	4.6	30	.37
20	5.1	50	.69	4.0	40	.43	4.9	35	.46
21	5.1	50	.69	4.0	40	.43	5.5	40	.59
22	4.7	50	.63	4.0	35	.38	5.5	40	.59
23	4.6	45	.56	4.2	40	.45	5.5	35	.52
24	4.4	45	.53	4.6	45	.56	5.3	35	.50
25	4.4	45	.53	4.7	45	.57	4.9	30	.40
26	4.7	50	.63	4.7	40	.51	4.7	30	.38
27	6.0	60	.97	4.4	40	.48	5.1	35	.48
28	4.7	55	.70	4.2	35	.40	5.3	40	.57
29	4.7	50	.63	4.0	30	.32	5.3	35	.50
30	4.4	45	.53	4.2	35	.40	5.3	35	.50
31	3.8	45	.46	3.8	30	.31	--	--	--
TOTAL	135.4	--	13.81	136.6	--	17.43	142.1	--	12.94

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 2042.6
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 105.64

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 miles upstream from mouth, and 2.0 miles southwest of Ysidora.

DRAINAGE AREA.--740 sq mi.

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

EXTREMES.--1971-72:
Sediment concentrations: No flow during year.
Sediment discharge: No flow during year.

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 Feb. 24, 1969; minimum daily, 0 tons on many days each year.

REMARKS.--No flow during entire water year. Prior to Feb. 25, 1970, at site 0.8 mile upstream.

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 mile upstream from Arroyo Trabuco, and 0.6 mile south of San Juan Capistrano.

DRAINAGE AREA.--117 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1972.
Sediment records: October 1970 to September 1972.
Published as sta 11046500 San Juan Creek near San Juan Capistrano in water year 1971.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 2,530 mg/l Dec. 27; minimum daily, no flow on many days.
Sediment discharge: Maximum daily, 195 tons Dec. 27; minimum daily, 0 tons on many days.

Period of record:
Sediment concentrations: Maximum daily, 3,070 mg/l Dec. 19, 1970; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 481 tons Dec. 19, 1970; minimum daily, 0 tons on many days each year.

REMARKS.--Data for San Juan Creek near San Juan Capistrano (sta 11046500) previously collected at site 2.8 miles upstream. No flow June 24 to Sept. 5.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	19.0	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	18.0	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	19.0	14.5	---	19.0	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	11.0	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	14.0	---	---	---	---	---	---	---	---	---
23	---	---	14.0	---	---	---	---	---	---	---	---	---
24	---	---	15.0	---	---	---	---	---	---	---	---	---
25	---	---	14.0	---	---	---	---	---	---	---	---	---
26	---	---	9.0	---	---	---	---	---	---	---	---	---
27	---	---	10.0	---	---	---	---	---	---	---	---	---
28	---	---	9.5	---	---	---	---	---	---	---	---	---
29	---	---	8.5	---	15.0	---	---	---	---	---	---	---
30	---	15.0	7.0	---	---	---	---	---	---	---	---	---
31	---	---	---	15.0	---	16.0	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.								
27...	1220	9.0	74	4790	957	35	46	54
27...	1700	10.0	18	6050	294	59	73	82

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
DEC.							
27...	61	71	74	75	82	92	100
27...	85	85	86	86	87	95	100

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.44	5	.01	.15	3	0	.16	3	0
2	.44	5	.01	.15	3	0	.33	7	.01
3	.44	5	.01	.15	3	0	.25	6	0
4	.44	5	.01	.15	3	0	.20	6	0
5	.44	5	.01	.15	3	0	.18	6	0
6	.44	5	.01	.15	3	0	.17	6	0
7	.50	6	.01	.15	3	0	.17	5	0
8	.38	5	.01	.16	3	0	.17	5	0
9	.33	5	0	.16	3	0	.17	5	0
10	.25	5	0	.16	3	0	.17	5	0
11	.23	5	0	.16	3	0	.17	5	0
12	.21	5	0	.16	3	0	.17	5	0
13	.21	4	0	.16	3	0	.17	5	0
14	.20	4	0	.16	3	0	.16	5	0
15	.20	4	0	.16	3	0	.16	4	0
16	.20	4	0	.16	3	0	.16	4	0
17	.19	4	0	.16	3	0	.16	3	0
18	.19	4	0	.16	3	0	.16	3	0
19	.18	4	0	.16	3	0	.16	2	0
20	.18	3	0	.16	3	0	.16	2	0
21	.18	3	0	.16	3	0	.16	2	0
22	.17	3	0	.16	3	0	1.7	30	.14
23	.17	3	0	.16	3	0	1.0	8	.02
24	.17	3	0	.16	3	0	26	227	27
25	.17	3	0	.16	3	0	11	40	1.2
26	.16	3	0	.16	3	0	2.9	10	.08
27	.16	3	0	.16	3	0	12	2530	195
28	.16	3	0	.16	3	0	21	1190	133
29	.16	3	0	.16	3	0	3.7	75	.75
30	.16	3	0	.16	3	0	2.1	140	.79
31	.16	3	0	--	--	--	1.8	130	.63
TOTAL	7.91	--	.08	4.73	--	0	86.96	--	358.62

	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	125	.54	.23	45	.03	.84	100	.23
2	1.5	125	.51	.21	40	.02	.86	100	.23
3	1.4	120	.45	.20	40	.02	.90	100	.24
4	1.3	115	.40	.18	40	.02	.92	105	.26
5	1.2	110	.36	.17	35	.02	.94	105	.27
6	1.2	110	.36	.16	35	.02	.96	105	.27
7	1.1	110	.33	.16	35	.02	.98	110	.29
8	1.1	110	.33	.16	35	.02	1.0	110	.30
9	1.0	100	.27	.17	40	.02	1.0	110	.30
10	1.0	100	.27	.18	40	.02	1.0	115	.31
11	.90	95	.23	.19	40	.02	1.0	115	.31
12	.86	95	.22	.22	45	.03	1.0	115	.31
13	.80	95	.21	.27	50	.04	1.0	120	.32
14	.74	90	.18	.35	60	.06	1.1	120	.36
15	.70	90	.17	.40	70	.08	1.1	120	.36
16	.64	85	.15	.45	70	.09	1.1	120	.36
17	.60	80	.13	.52	75	.11	1.1	115	.34
18	.55	75	.11	.54	75	.11	1.1	115	.34
19	.50	75	.10	.58	75	.12	1.1	115	.34
20	.50	70	.09	.62	80	.13	1.1	110	.33
21	.50	65	.09	.64	80	.14	1.1	110	.33
22	.45	65	.08	.68	85	.16	1.1	110	.33
23	.40	60	.06	.70	85	.16	1.1	110	.33
24	.40	60	.06	.73	90	.18	1.1	100	.30
25	.40	55	.06	.76	90	.18	1.1	100	.30
26	.35	55	.05	.78	95	.20	1.1	100	.30
27	.30	50	.04	.80	95	.21	1.1	105	.31
28	.30	50	.04	.82	99	.22	1.2	105	.34
29	.30	50	.04	.82	100	.22	1.2	110	.36
30	.25	50	.03	--	--	--	1.2	110	.36
31	.25	47	.03	--	--	--	1.2	110	.36
TOTAL	23.09	--	5.99	12.69	--	2.67	32.60	--	9.69

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1.2	110	.36	.50	50	.07	.10	10	0
2	1.2	110	.36	.50	50	.07	.10	9	0
3	1.2	105	.34	.50	45	.06	.10	9	0
4	1.2	105	.34	.45	45	.05	.10	8	0
5	1.2	100	.32	.45	45	.05	.10	8	0
6	1.1	100	.30	.45	40	.05	.10	7	0
7	1.1	100	.30	.40	40	.04	.10	7	0
8	1.1	100	.30	.35	40	.04	.09	7	0
9	1.1	100	.30	.35	35	.03	.09	6	0
10	1.1	95	.28	.35	35	.03	.08	6	0
11	1.1	95	.28	.30	35	.03	.08	6	0
12	1.1	95	.28	.30	30	.02	.07	5	0
13	1.0	90	.24	.30	30	.02	.06	5	0
14	1.0	90	.24	.25	30	.02	.06	5	0
15	1.0	90	.24	.25	30	.02	.05	4	0
16	1.0	85	.23	.25	25	.02	.05	4	0
17	.90	85	.21	.25	25	.02	.04	4	0
18	.90	85	.21	.20	25	.01	.04	4	0
19	.90	80	.19	.20	20	.01	.03	4	0
20	.80	80	.17	.20	20	.01	.02	3	0
21	.80	80	.17	.20	20	.01	.01	3	0
22	.80	75	.16	.20	15	.01	.01	3	0
23	.80	75	.16	.20	15	.01	.01	3	0
24	.70	75	.14	.15	15	.01	0	0	0
25	.70	60	.11	.15	15	.01	0	0	0
26	.70	60	.11	.15	15	.01	0	0	0
27	.70	60	.11	.15	10	0	0	0	0
28	.60	55	.09	.15	10	0	0	0	0
29	.60	55	.09	.15	10	0	0	0	0
30	.60	50	.08	.15	10	0	0	0	0
31	--	--	--	.15	10	0	--	--	--
TOTAL	28.20	--	6.71	8.60	--	.73	1.49	--	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							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							.01	3	0
7							.02	3	0
8							.02	3	0
9							.03	3	0
10							.03	4	0
11							.04	4	0
12							.04	4	0
13							.05	4	0
14							.06	4	0
15							.07	4	0
16							.08	5	0
17							.09	5	0
18							.10	5	0
19							.11	5	0
20							.12	6	0
21							.13	6	0
22							.14	6	0
23							.15	6	0
24							.16	7	0
25							.17	7	0
26							.18	8	0
27							.20	8	0
28							.22	9	.01
29							.25	9	.01
30							.30	10	.01
31							--	--	--
TOTAL	0	--	0	0	--	0	2.77	--	.03

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 209.04
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 384.52

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 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1972.
Sediment records: October 1970 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 3,700 mg/l Dec. 25; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 2,800 tons Dec. 27; minimum daily, 0 tons on many days.

Period of record:
Sediment concentrations: Maximum daily, 6,740 mg/l Dec. 19, 1970; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 2,800 tons Dec. 27, 1971; minimum daily, 0 tons on many days each year.

REMARKS.--No flow Oct. 1-15, 18-23, Oct. 25 to Dec. 12, Dec. 14-21, Mar. 13 to Apr. 5, May 8 to Sept. 30. Records of discharge furnished by Orange County Flood Control District. Sediment table omitted for period of no flow during July to September.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	22.0	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	13.0	---	---	---	---	---	---	---	---	---
23	---	---	12.0	---	---	---	---	---	---	---	---	---
24	---	---	14.0	---	---	---	---	---	---	---	---	---
25	---	---	14.0	---	---	---	---	---	---	---	---	---
26	---	---	11.5	---	---	---	---	---	---	---	---	---
27	---	---	10.0	---	---	---	---	---	---	---	---	---
28	---	---	9.0	---	---	---	---	---	---	---	---	---
29	---	---	8.0	---	16.0	---	---	---	---	---	---	---
30	---	---	5.0	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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				.10	400	.11
14	0	0	0				0	0	0
15	0	0	0				0	0	0
16	.10	175	.32				0	0	0
17	.20	177	.65				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				15	1940	216
23	0	0	0				.20	200	.11
24	1.8	610	25				64	3130	1570
25	0	0	0				7.8	3700	78
26	0	0	0				1.2	580	1.9
27	0	0	0				96	3550	2800
28	0	0	0				65	3400	1760
29	0	0	0				3.2	85	.73
30	0	0	0				2.3	18	.11
31	0	0	0				.70	15	.03
TOTAL	2.10	--	25.97	0	--	0	255.50	--	6426.99

	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	.60	14	.02	.40	15	.02	.30	35	.03
2	.60	14	.02	.30	15	.01	.30	35	.03
3	.40	13	.01	.30	10	.01	.20	30	.02
4	.60	15	.02	.30	10	.01	.20	30	.02
5	.50	15	.02	.50	34	.05	.20	25	.01
6	.60	15	.02	.40	30	.03	.20	20	.01
7	.60	14	.02	.40	30	.03	.10	20	.01
8	.60	14	.02	.40	25	.03	.10	15	0
9	.60	13	.02	.40	25	.03	.20	20	.01
10	.60	13	.02	.40	25	.03	.30	25	.02
11	.50	12	.02	.40	20	.02	.20	20	.01
12	.60	12	.02	.40	20	.02	.10	15	0
13	.40	10	.01	.40	20	.02	0	0	0
14	.40	10	.01	.30	20	.02	0	0	0
15	.40	9	.01	.30	15	.01	0	0	0
16	.40	9	.01	.30	15	.01	0	0	0
17	.40	9	.01	.20	15	.01	0	0	0
18	.40	8	.01	.20	10	.01	0	0	0
19	.40	8	.01	.20	10	.01	0	0	0
20	.90	60	.15	.30	20	.02	0	0	0
21	1.8	180	.87	.40	30	.03	0	0	0
22	1.2	110	.36	.40	35	.04	0	0	0
23	1.1	85	.25	.40	40	.04	0	0	0
24	1.1	80	.24	.40	45	.05	0	0	0
25	1.1	70	.21	.50	50	.07	0	0	0
26	.70	50	.09	.40	45	.05	0	0	0
27	.40	30	.03	.40	45	.05	0	0	0
28	.70	40	.08	.30	40	.03	0	0	0
29	.40	30	.03	.30	37	.03	0	0	0
30	.40	20	.02	--	--	--	0	0	0
31	.40	16	.02	--	--	--	0	0	0
TOTAL	19.80	--	2.65	10.30	--	.79	2.40	--	.17

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.10	15	0			
2	0	0	0	.10	10	0			
3	0	0	0	.10	10	0			
4	0	0	0	.10	10	0			
5	0	0	0	.10	10	0			
6	.10	30	.01	.10	10	0			
7	.10	30	.01	.10	10	0			
8	.10	25	.01	0	0	0			
9	.10	25	.01	0	0	0			
10	.10	20	.01	0	0	0			
11	.10	20	.01	0	0	0			
12	.10	20	.01	0	0	0			
13	.10	15	0	0	0	0			
14	.10	15	0	0	0	0			
15	.10	15	0	0	0	0			
16	.10	10	0	0	0	0			
17	1.0	740	2.0	0	0	0			
18	.10	200	.05	0	0	0			
19	.40	100	.11	0	0	0			
20	.20	50	.03	0	0	0			
21	.10	40	.01	0	0	0			
22	.10	35	.01	0	0	0			
23	.10	30	.01	0	0	0			
24	.10	25	.01	0	0	0			
25	.10	25	.01	0	0	0			
26	.10	20	.01	0	0	0			
27	.10	20	.01	0	0	0			
28	.10	15	0	0	0	0			
29	.10	15	0	0	0	0			
30	.10	15	0	0	0	0			
31	--	--	--	0	0	0			
TOTAL	3.80	--	2.33	.70	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 294.60
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 6458.90

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.											
22...	1330	13.0	46	5640	700	50	55	59	69	77	81
22...	1620	13.0	11	1720	51	66	74	83	86	89	--
24...	1645	14.0	185	6160	3080	46	49	55	63	70	78
27...	1650	10.0	290	9350	7320	37	37	45	53	62	70
28...	1210	9.0	565	14600	22300	29	30	36	44	57	67
28...	1700	9.0	28	2930	222	54	57	68	76	81	84

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
DEC.											
22...	--	84	--	93	--	100	--	--	--	--	--
22...	91	--	91	--	92	--	96	--	99	--	100
24...	--	79	--	85	--	93	--	99	--	100	--
27...	--	73	--	84	--	96	--	100	--	--	--
28...	--	74	--	85	--	93	--	100	--	--	--
28...	--	85	--	94	--	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 downstream from Jeffery Road bridge, and 1.5 miles west of Irvine.

DRAINAGE AREA.--40.3 sq mi.

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

EXTREMES.--June to September 1972:
Sediment concentrations: Maximum daily, 2,400 mg/l June 8, July 28; minimum daily, 100 mg/l Sept. 22.
Sediment discharge: Maximum daily, 26 tons June 8; minimum daily, 0.15 ton Sept. 26.

TEMPERATURE (°C) OF WATER, JUNE TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	18.0	---	---	---
8	---	---	---	---	---	---	---	---	---	---	30.0	22.5
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	25.5	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	28.5	---
15	---	---	---	---	---	---	---	---	29.0	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	14.5
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	24.5	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	22.0	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	31.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

SUSPENDED-SEDIMENT DISCHARGE, JUNE TO SEPTEMBER 1972

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							2.8	1500	11
2							3.0	1700	14
3							3.7	2050	20
4							3.7	2000	20
5							3.7	1900	19
6							3.3	1800	16
7							3.7	2000	20
8							4.0	2400	26
9							3.0	1700	14
10							2.5	1400	9.5
11							2.5	1330	9.0
12							1.6	870	3.8
13							1.6	850	3.7
14							2.8	1600	12
15							4.0	2300	25
16							3.7	1900	19
17							3.7	2000	20
18							3.7	1950	19
19							2.3	1200	7.5
20							2.5	1200	8.1
21							2.8	1250	9.5
22							3.3	1350	12
23							3.0	1250	10
24							2.5	1050	7.1
25							2.3	850	5.3
26							2.5	900	6.1
27							3.7	1000	10
28							3.7	900	9.0
29							3.7	800	8.0
30							3.3	750	6.7
31							--	--	--
TOTAL							92.6	--	380.3

	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	3.3	730	6.5	1.8	2080	10	1.8	400	1.9
2	3.0	700	5.7	1.4	1150	4.3	2.0	500	2.7
3	3.3	730	6.5	1.3	900	3.2	2.0	350	1.9
4	3.7	760	7.6	1.6	1000	4.3	1.6	250	1.1
5	3.7	750	7.5	1.8	1200	5.8	1.6	250	1.1
6	3.7	740	7.4	2.0	1300	7.0	1.4	230	.87
7	3.3	720	6.4	2.0	1200	6.5	1.6	250	1.1
8	3.7	700	7.0	1.6	900	3.9	1.8	300	1.5
9	3.7	780	7.8	1.8	925	4.5	2.3	350	2.2
10	4.0	950	10	2.5	1000	6.8	2.3	350	2.2
11	3.3	750	6.7	2.0	746	4.0	1.8	250	1.2
12	2.8	650	4.9	4.4	1560	19	.96	200	.52
13	4.0	850	9.2	2.0	658	3.6	.84	170	.39
14	4.0	900	9.7	2.8	710	5.4	.62	140	.23
15	4.8	1050	14	1.8	500	2.4	.72	140	.27
16	4.0	650	7.0	1.6	400	1.7	.96	150	.39
17	4.0	600	6.5	1.8	450	2.2	.72	130	.25
18	4.0	700	7.6	.72	250	.49	.96	140	.36
19	4.0	640	6.9	.62	200	.33	1.1	180	.53
20	3.3	600	5.3	.96	300	.78	.96	160	.41
21	2.3	550	3.4	.96	350	.91	.96	140	.36
22	2.3	500	3.1	1.1	450	1.3	.62	100	.17
23	3.0	1500	12	1.3	550	1.9	.72	120	.23
24	3.0	2000	16	1.6	700	3.0	.62	110	.18
25	3.0	1800	15	2.0	950	5.1	.72	130	.25
26	2.5	1500	10	1.4	800	3.0	.52	110	.15
27	2.8	2200	17	1.8	950	4.6	.72	140	.27
28	3.0	2400	19	2.3	1100	6.8	.96	170	.44
29	2.8	2200	17	1.6	700	3.0	1.4	250	.95
30	2.8	2100	16	1.6	600	2.6	1.3	225	.79
31	3.0	2250	18	1.8	500	2.4	--	--	--
TOTAL	104.1	--	296.7	53.96	--	130.81	36.58	--	24.91

TOTAL DISCHARGE FOR PERIOD JUNE 1, TO SEPT. 30, 1972 (CFS-DAYS) 287.24
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD JUNE 1, TO SEPT. 30, 1972 (TONS) 832.72

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
JUNE							
07...	0925	18.0	3.9	2460	26	46	49
AUG.							
12...	1405	25.5	17	5630	258	44	50

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. 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
JUNE							
07...	59	70	83	93	97	100	--
AUG.							
12...	57	66	72	81	92	99	100

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER-ATURE (DEG C)	NUMBER OF SAM-PLING POINTS	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
AUG.										
08...	1350	30.0	3	1.6	2	11	40	84	98	100

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

LOCATION.--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, 0.23 mile downstream from Lane Road, and 0.15 mile upstream from U.S. Interstate Highway 405, and 1.7 miles north of University of California at Irvine.

PERIOD RECORD.--Water temperatures: February to September 1972.
Sediment records: April to September 1972.

EXTREMES.--April to September 1972:
Sediment concentrations: Maximum daily, 10,000 mg/l May 4; minimum daily, 260 mg/l Apr. 7.
Sediment discharge: Maximum daily, 532 tons Aug. 12; minimum daily, 6.3 tons Apr. 7.

REMARKS.--Sediment concentration affected by earth-moving operations during month of May. Records of discharge furnished by Orange County Flood Control District.

TEMPERATURE (°C) OF WATER, FEBRUARY TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	21.5	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	15.0	28.0	---	---	---	---	---
7	---	---	---	---	---	---	---	---	19.0	---	---	---
8	---	---	---	---	---	---	---	---	---	---	32.0	24.0
9	---	---	---	---	---	---	---	---	21.5	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	26.5	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	24.0	---	---	---	30.0	---
15	---	---	---	---	---	---	---	---	30.5	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	21.5	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	15.0
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	27.0	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	21.5	---	24.0	---	---	---	---	---
25	---	---	---	---	---	---	20.0	20.0	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	23.0	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	32.5	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

SUSPENDED-SEDIMENT DISCHARGE, APRIL TO SEPTEMBER 1972

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	13	440	15	15	690	28	10	650	18
2	9.9	370	9.9	15	670	27	13	840	29
3	9.3	350	8.8	15	5500	223	13	790	28
4	10	400	11	15	10000	405	12	660	21
5	10	350	9.5	14	9800	370	11	650	19
6	10	280	7.6	14	9600	363	12	660	21
7	9.0	260	6.3	14	9400	355	37	2160	417
8	10	350	9.5	14	9000	340	12	600	19
9	10	340	9.2	14	8800	333	14	520	20
10	9.6	330	8.6	14	8600	325	11	390	12
11	11	390	12	14	8400	318	12	390	13
12	11	380	11	14	8300	314	12	400	13
13	13	440	15	14	8100	306	13	430	15
14	13	460	16	14	7000	265	14	490	19
15	13	460	16	14	6100	231	20	700	38
16	10	420	11	13	5500	193	21	700	40
17	13	520	18	13	5000	176	15	490	20
18	11	450	13	13	4500	158	13	440	15
19	12	490	16	12	4000	130	11	400	12
20	10	400	11	12	3500	113	14	540	20
21	11	490	15	12	3000	97	13	500	18
22	14	620	23	12	2500	81	13	480	17
23	11	500	15	11	2000	59	13	450	16
24	11	460	14	11	1700	50	10	350	9.5
25	12	470	15	10	1500	41	12	450	15
26	14	600	23	10	1300	35	13	520	18
27	16	690	30	10	1200	32	13	560	20
28	16	710	31	10	1100	30	14	580	22
29	15	660	27	10	950	26	14	520	20
30	17	770	35	10	800	22	12	410	13
31	--	--	--	10	700	19	--	--	--
TOTAL	354.8	--	462.4	393	--	5465	417	--	977.5

	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	560	20	19	860	44	9.0	410	10
2	11	450	13	19	830	43	10	510	14
3	11	490	15	18	760	37	10	470	13
4	10	420	11	19	790	41	9.6	420	11
5	13	530	19	17	770	35	8.7	310	7.3
6	12	520	17	14	600	23	9.3	330	8.3
7	13	560	20	12	610	20	9.9	360	9.6
8	18	1000	49	12	540	17	10	380	10
9	16	950	41	13	590	21	11	410	12
10	14	910	34	15	710	29	12	420	14
11	14	780	29	13	620	22	12	410	13
12	13	620	22	46	2030	522	13	480	17
13	17	1100	50	13	950	33	15	540	22
14	16	1000	43	9.6	560	15	13	480	17
15	18	1200	58	9.3	480	12	15	510	21
16	18	1200	58	9.0	340	8.3	13	480	17
17	16	760	33	9.3	380	9.5	11	410	12
18	17	1100	50	9.3	380	9.5	11	450	13
19	18	1300	63	8.4	340	7.7	13	560	20
20	18	1200	58	8.7	380	8.9	14	650	25
21	18	1000	49	8.7	380	8.9	14	620	23
22	19	1100	56	8.7	390	9.2	12	610	20
23	19	1000	51	9.6	450	12	12	600	19
24	18	1100	53	9.6	440	11	11	590	18
25	21	1100	62	10	520	14	10	570	15
26	19	950	49	9.6	450	12	10	560	15
27	20	920	50	9.9	470	13	10	550	15
28	21	980	56	9.0	520	13	10	570	15
29	23	1000	62	9.3	550	14	10	560	15
30	19	710	36	8.7	470	11	10	550	15
31	19	900	46	9.6	500	13	--	--	--
TOTAL	512	--	1273	396.3	--	1099.0	338.5	--	456.2

TOTAL DISCHARGE FOR PERIOD APR. 1, TO SEPT. 30, 1972 (CFS-DAYS) 2411.6
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD APR. 1, TO SEPT. 30, 1972 (TONS) 9733.1

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, APRIL TO SEPTEMBER 1972

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
APR.										
06...	1400	28.0	9.3	274	6.9	68	81	90	96	99
24...	1020	24.0	13	527	18	71	79	91	98	99
MAY										
25...	1300	20.0	10	1480	40	60	67	84	94	99
JUNE										
07...	0850	19.0	93	10800	2710	27	28	34	49	78
07...	0900	19.0	156	11600	4890	37	40	47	59	77
07...	0905	19.0	163	10100	4450	39	43	51	65	85
07...	0910	19.0	181	8660	4230	42	45	55	67	85
07...	0955	19.0	190	4470	2290	40	46	60	74	88
07...	1020	19.0	145	3940	1540	36	44	56	70	83
AUG.										
12...	1240	--	53	2370	339	32	35	42	53	70
12...	1340	--	163	4970	2190	39	45	58	70	86
12...	1455	--	275	7410	5500	43	51	61	76	90
14...	1230	--	6.8	593	11	42	52	55	61	64

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
APR.										
06...	--	99	--	99	--	100	--	--	--	--
24...	--	99	--	100	--	--	--	--	--	--
MAY										
25...	--	100	--	--	--	--	--	--	--	--
JUNE										
07...	96	--	100	--	--	--	--	--	--	--
07...	90	--	97	--	100	--	--	--	--	--
07...	94	--	99	--	100	--	--	--	--	--
07...	95	--	100	--	--	--	--	--	--	--
07...	--	97	--	99	--	100	--	--	--	--
07...	--	94	--	99	--	100	--	--	--	--
AUG.										
12...	96	--	100	--	--	--	--	--	--	--
12...	98	--	100	--	--	--	--	--	--	--
12...	98	--	100	--	--	--	--	--	--	--
14...	71	--	76	--	81	--	90	--	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, APRIL TO SEPTEMBER 1972

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
APR.							
06...	1400	28.0	3	9.3	--	3	49
AUG.							
08...	1325	32.0	3	13	12	18	35

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.						
06...	91	99	100	--	--	--
AUG.						
08...	70	80	84	87	93	100

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, at gaging station on downstream side of E Street bridge, 0.8 mile downstream from San Timoteo Creek, 1 mile upstream from Warm Creek, and 3 miles south of San Bernardino.

DRAINAGE AREA.--532 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1969 (partial-record station), February 1970 to September 1972. Specific conductance: October 1967 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum, 1,260 micromhos Sept. 1; minimum, 836 micromhos June 27.

Period of record:
Specific conductance: Maximum recorded, 1,280 micromhos Oct. 25, 1968; minimum recorded, 250 micromhos Oct. 6, 1969.

REMARKS.--Selected chemical-quality analyses furnished by California Department of Water Resources. Recorder malfunction Jan. 1-3, 5-16, Mar. 9 to Apr. 16. Specific conductance collected at effluent pipe from City of San Bernardino Water Quality Control Plant. Values reported are for periods of main channel river flow of less than 1.5 cfs and are representative of more than 90 percent of total flow at E Street bridge.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT.					
01...	0925	18	508	984	26.5
12...	1145	19	584	1020	28.0
NOV.					
11...	1045	22	520	1020	24.5
18...	1445	22	548	1060	23.0
24...	1320	18	552	1060	22.5
DEC.					
01...	1045	19	528	1040	23.0
12...	1000	20	532	1010	21.0
16...	1400	21	532	1000	20.5
JAN.					
03...	1415	26	564	1080	19.5
10...	1000	30	500	939	--
17...	1005	30	476	946	--
26...	0930	26	500	1040	--
FEB.					
01...	0945	20	580	1040	20.5
08...	0900	22	536	985	--
18...	0910	25	536	1010	--
MAR.					
01...	0950	23	716	1220	--
08...	1115	26	512	1010	--
16...	0915	26	548	991	--
23...	0945	26	568	989	--
30...	1115	24	508	1000	--
APR.					
06...	1430	15	592	1070	--
13...	1045	14	552	932	--
24...	1310	12	580	1010	--
27...	1310	12	632	981	--
MAY					
01...	1230	12	520	982	--
17...	1110	12	548	963	--
19...	1050	13	536	986	--
25...	1400	13	540	1120	--
JUNE					
01...	0900	12	556	967	--
06...	1215	12	580	993	--
16...	0915	12	520	956	--
22...	0900	12	548	957	--
28...	0855	14	552	984	--
JULY					
14...	0900	13	552	998	--
20...	0850	12	528	960	--
28...	0920	13	556	966	--
AUG.					
01...	0905	13	612	1100	--
08...	1300	32	564	957	--
21...	0915	32	564	949	--
SEP.					
01...	1070	13	556	1280	--
14...	0915	14	524	958	--
22...	1300	13	544	944	--
28...	1015	18	564	978	--

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.											
21...	1030	--	20	39	24	88	13	373	0	306	78
NOV.											
23...	1300	--	17	31	29	92	13	361	0	296	83
DEC.											
16...	1415	--	13	43	18	90	12	323	0	265	83
JAN.											
05...	1130	13	--	48	18	88	12	344	0	282	81
FEB.											
25...	1130	--	36	24	33	89	16	391	0	321	87
MAR.											
24...	1000	--	19	32	27	90	14	368	0	302	83
APR.											
26...	1215	--	23	37	24	99	13	347	0	285	80
JUNE											
01...	0915	14	--	27	30	93	13	348	0	285	85
29...	0910	14	--	37	24	100	13	376	0	308	86
JULY											
27...	0920	14	--	37	24	86	12	224	0	184	82
AUG.											
24...	1015	--	30	40	23	86	12	342	0	281	85
SEP.											
29...	1230	--	34	42	22	91	12	472	0	387	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (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)
OCT.										
21...	64	1.0	.56	26	33	14	511	.69	196	0
NOV.										
23...	72	.9	1.3	29	37	--	517	.70	197	0
DEC.										
16...	80	.8	.56	25	32	--	501	.68	182	0
JAN.										
05...	76	1.2	.70	26	33	9.2	510	.69	194	0
FEB.										
25...	77	.7	1.1	37	48	20	526	.72	196	0
MAR.										
24...	74	.6	.84	32	41	18	515	.70	191	0
APR.										
26...	87	.8	.56	27	35	14	523	.71	191	0
JUNE										
01...	70	1.0	.56	--	--	20	512	.70	191	0
29...	68	1.1	--	--	--	17	529	.72	191	0
JULY										
27...	62	1.8	--	--	--	12	506	.69	191	7
AUG.										
24...	59	1.0	.27	--	--	11	485	.66	195	0
SEP.										
29...	74	.6	1.1	37	48	12	543	.74	196	0

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)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT.								
21...	47	2.7	925	7.6	25.5	120	5.5	660
NOV.								
23...	49	2.9	956	7.6	23.5	18	--	610
DEC.								
16...	50	2.9	922	7.6	19.5	21	--	580
JAN.								
05...	48	2.7	925	7.5	19.5	14	4.5	650
FEB.								
25...	47	2.8	1000	7.5	22.0	--	4.5	680
MAR.								
24...	48	2.8	961	7.4	24.0	34	4.2	620
APR.								
26...	51	3.1	971	7.3	25.0	20	4.5	650
JUNE								
01...	49	2.9	938	7.4	26.5	30	4.2	820
29...	51	3.1	927	7.3	26.5	24	4.6	920
JULY								
27...	48	2.7	835	6.8	29.0	21	1.4	720
AUG.								
24...	47	2.7	899	7.3	28.5	11	4.5	720
SEP.								
29...	48	2.8	1010	7.1	28.5	30	6.0	660

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
01...	0925	18	--	960	--	26.5	--
12...	1145	19	--	990	--	28.0	--
21...	1030	20	306	--	7.3	25.5	7.5
NOV.							
11...	1045	22	--	990	--	24.5	--
18...	1445	22	--	1060	--	23.0	--
23...	1300	17	296	1000	7.3	23.5	8.3
24...	1320	18	--	1060	--	22.5	--
DEC.							
01...	1045	19	--	1000	--	23.0	--
12...	1000	20	--	986	--	21.0	--
16...	1400	21	--	1000	--	20.5	--
16...	1415	13	265	1000	7.3	19.5	8.2
JAN.							
03...	1415	26	--	1080	--	19.5	--
05...	1130	13	282	970	7.2	19.5	8.5
10...	1000	30	--	973	--	--	--
17...	1005	30	--	963	--	--	--
19...	1100	25	--	--	--	20.0	--
26...	0930	26	--	1010	--	--	--
FEB.							
01...	0945	20	--	1040	--	20.5	--
08...	0900	22	--	972	--	--	--
18...	0910	25	--	1010	--	--	--
25...	1130	36	321	1020	7.3	22.0	8.0
MAR.							
01...	0950	23	--	947	--	--	--
08...	1115	26	--	1010	--	--	--
16...	0915	26	--	991	--	--	--
23...	0945	26	--	989	--	--	--
24...	1000	19	302	1010	7.2	24.0	8.4
30...	1115	24	--	975	--	--	--
APR.							
06...	1430	15	--	1070	--	--	--
13...	1045	14	--	932	--	--	--
24...	1310	12	--	1010	--	--	--
26...	1215	23	285	1010	7.2	25.0	7.8
27...	1310	12	--	981	--	--	--
MAY							
01...	1230	12	--	982	--	--	--
17...	1110	12	--	943	--	--	--
19...	1050	13	--	986	--	--	--
25...	1600	13	--	1010	--	--	--
JUNE							
01...	0900	12	--	967	--	--	--
01...	0915	14	285	950	7.2	26.5	7.7
06...	1215	12	--	993	--	--	--
16...	0915	12	--	956	--	--	--
22...	0900	12	--	957	--	--	--
28...	0855	14	--	984	--	--	--
29...	0910	14	308	1000	7.3	26.5	7.3
JULY							
06...	1015	17	--	989	--	28.0	--
14...	0900	13	--	998	--	--	--
20...	0850	12	--	960	--	--	--
27...	0920	14	184	980	7.3	29.0	7.2
28...	0920	13	--	987	--	--	--
AUG.							
01...	0905	13	--	1090	--	--	--
08...	1300	32	--	918	--	--	--
21...	0915	32	--	909	--	--	--
24...	1015	30	281	900	7.3	28.5	7.3
SEP.							
01...	1070	13	--	1260	--	--	--
14...	0915	14	--	958	--	--	--
22...	1300	13	--	944	--	--	--
28...	1015	18	--	956	--	--	--
29...	1230	34	387	1000	7.2	28.5	2.1

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1000	954	983	1070	981	1020	1040	981	1010	---	---	---
2	1010	939	965	1080	984	1050	1050	963	1000	---	---	---
3	1000	939	962	1030	981	999	1000	950	968	---	---	---
4	1030	953	986	1030	978	998	1030	950	982	1010	978	990
5	1010	968	985	1050	966	1010	---	---	---	---	---	---
6	1000	947	971	1050	963	999	1080	974	1020	---	---	---
7	1060	986	1020	1030	949	982	1050	985	1030	---	---	---
8	1060	989	1020	1030	955	985	1070	978	1010	---	---	---
9	1080	973	1010	1040	961	986	1050	975	1000	---	---	---
10	1050	900	991	993	936	964	1080	994	1020	---	---	---
11	1040	952	990	1040	950	990	1060	976	1010	---	---	---
12	1030	966	994	---	---	---	1070	972	1000	---	---	---
13	1060	966	1000	1030	983	1000	1090	980	1010	---	---	---
14	1020	966	997	1020	976	993	1020	960	987	---	---	---
15	1040	978	1010	1060	984	1020	985	935	964	---	---	---
16	1040	966	999	1080	1030	1060	999	898	948	---	---	---
17	---	---	---	1060	1010	1030	1010	947	971	1060	983	1030
18	1060	972	1010	1080	988	1030	1030	932	967	1020	964	1000
19	1030	966	994	1070	1000	1030	1030	965	992	1020	951	980
20	1040	993	1030	1090	1000	1040	1080	961	1020	1060	979	1020
21	1040	986	1020	1070	1020	1030	1050	957	994	1090	1010	1040
22	1080	1000	1030	1080	1010	1040	---	---	---	1030	976	995
23	1050	975	1010	1060	1010	1030	---	---	---	1030	969	994
24	---	---	---	1070	996	1030	---	---	---	1010	939	974
25	---	---	---	1060	965	1010	---	---	---	1060	969	1010
26	---	---	---	1100	966	1040	---	---	---	1040	989	1020
27	---	---	---	1040	1020	1030	---	---	---	1030	967	991
28	---	---	---	1070	1000	1040	---	---	---	1020	954	982
29	---	---	---	1070	974	1030	---	---	---	1070	973	1000
30	1070	992	1020	1070	1010	1050	---	---	---	1010	957	976
31	1040	959	991	---	---	---	---	---	---	1050	953	995
MONTH	---	---	---	1100	936	1020	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1080	984	1040	1020	933	969	---	---	---	1070	978	1020
2	990	937	960	1000	944	970	---	---	---	1050	940	1000
3	990	920	954	1030	953	997	---	---	---	993	963	981
4	1020	981	999	1010	943	969	---	---	---	990	903	963
5	1030	966	997	972	939	954	---	---	---	1010	943	974
6	1010	957	986	1020	939	971	---	---	---	1030	969	999
7	1030	957	993	1020	974	992	---	---	---	999	954	982
8	1020	957	991	1020	970	980	---	---	---	1020	931	987
9	966	940	954	---	---	---	---	---	---	984	937	969
10	1040	928	984	---	---	---	---	---	---	963	920	946
11	1050	996	1020	---	---	---	---	---	---	990	920	960
12	1030	946	995	---	---	---	---	---	---	1010	954	974
13	1030	943	978	---	---	---	---	---	---	1020	909	974
14	1080	990	1030	---	---	---	---	---	---	1020	946	987
15	1010	963	988	---	---	---	---	---	---	987	920	956
16	1030	963	991	---	---	---	---	---	---	1010	914	964
17	1040	999	1020	---	---	---	1050	956	1020	1010	925	968
18	1150	1010	1070	---	---	---	1040	984	1000	1040	996	1020
19	1110	999	1070	---	---	---	964	918	946	1030	954	1000
20	1040	975	999	---	---	---	962	933	948	1030	906	998
21	1080	990	1030	---	---	---	963	933	949	990	928	963
22	1070	996	1020	---	---	---	1070	914	985	1010	911	978
23	1010	978	1000	---	---	---	1000	895	966	1040	993	1010
24	1060	975	1020	---	---	---	1020	913	985	1020	999	1010
25	1120	1020	1060	---	---	---	988	940	965	1020	900	998
26	1080	1020	1050	---	---	---	1020	947	990	1030	990	1010
27	1080	999	1030	---	---	---	1010	940	979	1010	954	975
28	1040	984	1000	---	---	---	1030	890	981	1000	946	972
29	1020	963	986	---	---	---	1050	993	1020	1010	909	953
30	---	---	---	---	---	---	1020	966	989	1060	937	982
31	---	---	---	---	---	---	---	---	---	1010	951	983
MONTH	1150	920	1018	---	---	---	---	---	---	1070	900	982

11059300 SANTA ANA RIVER AT E STREET, NEAR SAN BERNARDINO, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	990	923	961	1020	940	971	1090	1020	1070	1260	1090	1180
2	1010	919	971	1010	975	991	1010	945	966	1080	1000	1040
3	1040	961	984	1050	954	992	958	913	934	1030	977	1010
4	1030	943	1010	1050	975	1020	969	890	925	1050	1010	1030
5	1030	977	996	1030	969	999	988	938	968	1050	998	1020
6	1010	985	993	1030	937	986	975	917	951	1010	920	960
7	1010	968	983	1010	937	971	973	913	943	1020	960	985
8	1010	968	989	1000	934	969	978	914	944	1000	943	974
9	1040	903	1010	1010	951	974	971	910	938	1010	943	971
10	1110	1010	1040	1040	917	994	940	890	915	992	943	968
11	1090	1010	1040	1030	993	1000	986	905	943	1000	931	970
12	1050	985	1010	1010	920	965	960	885	926	1010	912	971
13	1050	1030	1030	1030	920	980	959	900	932	989	960	971
14	1020	999	1010	1030	948	987	993	918	947	983	920	952
15	1000	962	979	1020	946	979	980	925	951	1070	912	977
16	1010	931	971	1040	931	974	935	875	913	1050	995	1030
17	1040	945	985	1030	909	992	948	861	910	995	943	970
18	1030	976	997	1010	943	972	970	889	930	1000	918	959
19	---	---	---	1010	923	957	957	888	931	1010	974	993
20	1040	991	1010	1010	954	975	944	887	925	983	923	960
21	1010	949	979	1010	948	980	945	886	920	977	915	949
22	969	895	930	990	963	973	957	893	935	1010	920	961
23	1020	931	989	960	903	930	957	888	932	996	940	968
24	1030	963	994	996	917	952	963	893	927	982	927	954
25	1050	975	1010	990	928	959	957	901	929	968	908	944
26	1030	943	998	984	925	949	951	888	926	972	900	937
27	984	836	957	990	928	953	940	880	913	964	912	942
28	1020	925	982	1020	951	982	945	873	908	1040	938	985
29	1010	940	968	1020	940	970	948	896	925	1070	996	1030
30	1000	925	955	1010	954	977	957	880	914	1070	1010	1040
31	---	---	---	1090	940	987	1120	893	960	---	---	---
MONTH	1110	836	991	1090	903	976	1120	861	937	1260	900	986

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 upstream from MWD Crossing, 0.7 mile downstream from Union Pacific Railroad bridge, 1.2 miles upstream from bridge on Van Buren Boulevard, and 3.3 miles north of Arlington.

DRAINAGE AREA.--854 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.
Specific conductance: October 1969 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum, 1,230 micromhos July 9; minimum, 147 micromhos Dec. 24.

Period of record:
Specific conductance: Maximum recorded, 1,320 micromhos Nov. 4, 1969; minimum, 95 micromhos Nov. 27, 1970.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT.					
12...	1100	24	792	1120	23.0
20...	1030	25	784	1130	18.0
28...	1445	22	744	1120	17.0
NOV.					
03...	1400	22	668	1130	20.5
11...	1130	26	736	1120	18.0
18...	1345	24	736	1100	17.5
24...	1345	25	732	1110	18.0
DEC.					
01...	1145	23	764	1100	20.0
09...	1315	24	692	1080	17.0
16...	1200	24	748	1120	17.5
22...	--	60	366	610	--
24...	1450	116	282	439	14.0
25...	1000	574	228	330	15.0
26...	1110	271	276	419	11.5
27...	1500	300	224	371	10.0
28...	1230	211	242	414	9.5
29...	1510	32	644	1030	--
30...	1000	36	668	1100	14.0
JAN.					
03...	1255	21	708	1140	--
10...	1200	--	716	1130	--
17...	1700	22	676	1120	--
26...	1030	23	716	1130	--
FEB.					
01...	1330	27	636	1110	19.5
08...	1030	22	672	1100	--
16...	1100	25	712	1050	--
MAR.					
01...	1245	25	528	955	--
10...	1045	25	668	1100	--
16...	1025	24	732	1070	--
23...	1130	24	716	1060	--
30...	1230	25	672	1080	--
APR.					
06...	1350	26	708	1090	--
13...	0945	27	720	1100	--
20...	0900	25	752	1080	--
27...	0930	23	756	1100	--
MAY					
01...	1130	23	816	1090	--
12...	0945	25	728	1106	--
19...	1215	21	700	1090	--
26...	1000	24	700	1110	--
JUNE					
01...	1100	19	724	1110	--
06...	1400	23	748	1120	--
16...	1030	25	676	1080	--
21...	1030	24	700	1090	--
28...	1045	23	712	1100	--
JULY					
07...	1000	20	800	1110	22.5
14...	1015	20	708	1100	--
20...	1020	20	716	1100	--
28...	1015	20	736	1100	--
AUG.					
01...	1115	20	748	1100	--
11...	0930	32	732	1110	--
21...	1100	32	692	1090	--
SEP.					
01...	1145	18	712	1120	--
14...	1100	21	700	1110	--
19...	1100	21	708	1100	--
22...	1000	22	716	1100	--
26...	1000	20	712	1120	--

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

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT.				
12...	1100	24	1100	23.0
20...	1030	25	1130	18.0
28...	1445	22	1100	17.0
NOV.				
03...	1400	22	1130	20.5
11...	1130	26	1120	18.0
18...	1345	24	1100	17.5
24...	1345	25	1080	18.0
DEC.				
01...	1145	23	1100	20.0
09...	1315	24	1080	17.0
16...	1200	24	1120	17.5
22...	--	60	573	--
24...	1450	116	425	14.0
25...	1000	574	291	15.0
26...	1110	271	374	11.5
27...	1500	300	333	10.0
28...	1230	211	400	9.5
29...	1510	32	1030	--
30...	1000	36	1080	14.0
JAN.				
03...	1255	21	1140	--
10...	1200	--	1130	--
17...	1700	22	1120	--
26...	1030	23	1130	--
FEB.				
01...	1330	27	1110	19.5
08...	1030	22	1070	--
16...	1100	25	1050	--
MAR.				
01...	1245	25	1080	--
10...	1045	25	1100	--
16...	1025	24	1070	--
23...	1130	24	1060	--
30...	1230	25	1080	--
APR.				
06...	1350	26	1080	--
13...	0945	27	1100	--
20...	0900	25	1080	--
27...	0930	23	1100	--
MAY				
01...	1130	23	1090	--
12...	0945	25	1110	--
19...	1215	21	1090	--
26...	1000	24	1110	--
JUNE				
01...	1100	19	1120	--
06...	1400	23	1120	--
16...	1030	25	1080	--
21...	1030	24	1090	--
28...	1045	23	1100	--
JULY				
07...	1000	20	1080	22.5
14...	1015	20	1100	--
20...	1020	20	1100	--
28...	1015	20	1100	--
AUG.				
01...	1115	20	1100	--
11...	0930	32	1110	--
21...	1100	32	1090	--
SEP.				
01...	1145	18	1120	--
14...	1100	21	1110	--
19...	1100	21	1110	--
22...	1000	22	1100	--
26...	1000	20	1120	--

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1140	1080	1120	1080	1040	1070	1100	1050	1080	1130	1070	1100
2	1140	1090	1120	1110	1030	1070	1070	1050	1060	1140	1100	1120
3	1130	1100	1120	1130	1080	1100	1080	981	1050	1200	1120	1150
4	1160	1080	1120	1120	1090	1100	1080	811	1020	1160	1120	1140
5	1160	1100	1130	1120	1080	1100	1120	1050	1070	1180	1120	1150
6	1140	1090	1120	1130	1100	1110	1120	1070	1090	1200	1160	1180
7	1150	1100	1130	1110	1080	1100	1110	960	1050	1160	1100	1120
8	1160	1090	1130	1110	1090	1100	1080	1030	1050	1140	1080	1120
9	1170	1110	1140	1130	1060	1100	1180	1040	1080	1140	1080	1110
10	1150	1130	1140	1130	1090	1110	1180	1150	1170	1160	1080	1110
11	1160	1090	1130	1120	1090	1100	1170	1140	1160	1140	1050	1100
12	1140	1080	1110	1100	785	1040	1160	1110	1140	1150	1110	1120
13	1140	1100	1120	1130	1100	1110	1160	1100	1140	1120	1050	1100
14	1130	1090	1120	1120	1090	1110	1130	1060	1120	1140	1080	1100
15	1120	1060	1090	1130	1100	1110	1120	1100	1110	1130	1060	1100
16	1130	970	1080	1150	1110	1130	1130	1110	1120	1160	1070	1110
17	1120	806	1050	1160	1120	1140	1140	1080	1100	1160	1090	1120
18	1130	1090	1110	1170	1080	1110	1130	1100	1110	1150	1120	1130
19	1140	1100	1120	1130	1090	1120	1120	1080	1090	1140	1120	1120
20	1140	1110	1130	1140	1080	1100	1130	1100	1110	1140	1110	1120
21	1140	1110	1130	1120	1100	1110	1130	1100	1110	1140	1120	1130
22	1170	1090	1140	1120	1090	1100	1110	542	970	1140	1120	1120
23	1160	1130	1140	1120	1090	1100	1080	816	960	1140	1080	1110
24	1140	438	1010	1140	1080	1100	1110	147	570	1120	1090	1100
25	1150	440	990	1130	1080	1100	---	---	---	1120	1060	1090
26	1130	1100	1120	1120	1090	1100	---	---	---	1140	1110	1130
27	1110	1060	1090	1120	1100	1110	---	---	---	1120	1080	1110
28	1100	1060	1070	1120	1100	1110	---	---	---	1120	1080	1100
29	1180	1050	1070	1130	1090	1110	---	---	---	1100	1040	1070
30	1100	1050	1070	1110	1040	1090	1140	1040	1080	1110	1020	1060
31	1090	1060	1080	---	---	---	1150	1070	1120	1080	1030	1060
MONTH	1180	438	1100	1170	785	1100	1180	147	1070	1200	1020	1110

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1140	979	1060	1100	1060	1080	1100	1030	1060	1110	1070	1090
2	1110	1060	1090	1150	1060	1090	1100	1040	1060	1100	1070	1080
3	1090	1050	1080	1130	1090	1110	1100	1050	1070	1090	1060	1080
4	1090	1040	1060	1150	1080	1110	1100	1030	1080	1090	1060	1070
5	1090	1000	1060	1120	1040	1080	1100	1030	1080	1080	1050	1070
6	1090	1050	1080	1110	1020	1070	1080	1060	1070	1080	1020	1060
7	1100	1050	1080	1090	1070	1080	1090	1020	1060	1080	1040	1060
8	1090	1030	1060	1060	1030	1050	1090	1020	1070	1110	1050	1080
9	1070	1020	1040	1100	1050	1080	---	---	---	1120	1080	1100
10	1060	1010	1040	1130	1080	1100	1090	1030	1070	1120	1060	1090
11	1070	1040	1060	1120	1070	1100	1110	1080	1090	1140	1060	1100
12	1080	1030	1060	1110	1060	1080	1120	1070	1100	1130	1080	1110
13	1060	1000	1040	1090	1070	1080	1170	1040	1110	1120	1080	1090
14	1050	985	1010	1080	1060	1070	1090	1040	1070	1120	1070	1090
15	1050	989	1020	1100	1070	1080	1120	1030	1080	1130	1080	1100
16	1120	1020	1060	1110	1070	1090	1120	1060	1090	1150	1060	1100
17	1090	1040	1070	1110	1050	1090	1080	1060	1070	1130	1070	1100
18	1080	1040	1060	1120	1070	1090	1140	1070	1110	1130	1070	1100
19	1070	1000	1040	1120	1030	1100	1160	1090	1130	1100	1060	1080
20	1070	983	1040	1110	1060	1090	1160	1070	1130	1100	1040	1070
21	1070	1000	1040	1100	1070	1080	1160	1080	1110	1080	1050	1060
22	1060	1000	1020	1100	1040	1070	1180	1090	1130	1080	1030	1060
23	1070	1020	1050	1090	1000	1060	1180	1140	1160	1090	1040	1060
24	1060	1010	1040	1110	1060	1090	1170	1110	1140	1080	1040	1060
25	1100	1030	1050	1120	1070	1090	1190	1110	1160	1050	1020	1040
26	1090	1040	1070	1140	1080	1110	1180	1110	1150	1110	1000	1090
27	1080	1010	1060	1120	1080	1100	1110	1050	1100	1120	1080	1100
28	1090	1010	1060	1100	1070	1080	1110	1010	1070	1130	1100	1110
29	1110	1070	1090	1140	1060	1100	1110	1070	1060	1120	1080	1100
30	---	---	---	1100	1030	1070	1100	1060	1080	1120	1080	1100
31	---	---	---	1070	1020	1060	---	---	---	1140	1110	1120
MONTH	1140	979	1050	1150	1000	1080	1190	1010	1100	1150	1000	1080

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1150	1120	1130	1120	1090	1100	1160	1100	1120	1120	1100	1110
2	1140	1080	1120	1130	1100	1110	1120	1100	1110	1110	1080	1100
3	1120	1100	1110	1130	1070	1100	1110	1090	1100	1110	1090	1100
4	1110	1020	1100	1110	1070	1090	1120	1090	1110	1110	1090	1100
5	1120	942	1080	1110	1070	1100	1120	1090	1110	1120	1080	1110
6	1120	1080	1090	1110	1070	1100	1130	953	1090	1120	1100	1110
7	1120	1080	1090	1200	1070	1130	1140	947	1090	1140	1120	1130
8	1110	1050	1080	1220	1180	1200	1140	998	1100	1140	1120	1130
9	1090	1060	1070	1230	1180	1200	1140	951	1090	1150	1140	1140
10	1120	1080	1100	1160	1060	1110	1180	1040	1140	1150	1130	1140
11	1110	1080	1090	1140	1060	1100	1160	1100	1120	1160	1120	1140
12	1130	1070	1100	1140	1060	1100	1210	862	1100	1140	1110	1130
13	1140	1110	1120	1120	1050	1090	1170	1120	1150	1140	1100	1120
14	1140	1090	1120	1150	1080	1120	1130	1090	1100	1130	1100	1120
15	1130	1040	1100	1150	1110	1130	1090	965	1020	1140	1100	1120
16	1130	1060	1100	1150	1130	1140	---	---	---	1140	1120	1130
17	1120	1090	1110	1150	1130	1140	---	---	---	1150	1120	1140
18	1110	1080	1100	1150	1130	1140	---	---	---	1150	1120	1130
19	1140	1070	1110	1150	1120	1130	---	---	---	1180	1110	1140
20	1130	1090	1110	1130	1090	1110	---	---	---	---	---	---
21	1130	1040	1100	1120	1050	1080	---	---	---	---	---	---
22	1110	1080	1100	1100	1080	1090	---	---	---	1150	1090	1110
23	1100	1080	1090	1100	1060	1080	---	---	---	1140	1100	1110
24	1120	1090	1100	1110	1060	1080	---	---	---	1140	1070	1100
25	1120	1080	1100	1120	1100	1110	---	---	---	1120	1060	1090
26	1120	1080	1100	1110	1080	1100	1150	1110	1140	1130	1020	1110
27	1120	1070	1100	1110	1080	1100	1160	1150	1160	1130	1080	1110
28	1130	1100	1110	1140	1060	1120	1170	1110	1140	1130	1060	1100
29	1140	1090	1120	1130	1100	1120	1150	1100	1120	1160	1100	1120
30	1120	1090	1100	1140	1090	1110	1150	1100	1110	1160	1100	1120
31	---	---	---	1160	1100	1120	1150	1080	1120	---	---	---
MONTH	1150	942	1100	1230	1050	1110	---	---	---	1180	1020	1120

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, 300 feet downstream from gaging station, on discharge pipe of Riverside Water Quality Control Plant on left bank of Santa Ana River, 0.4 mile upstream from Van Buren Boulevard, and 3.1 miles northwest of Arlington.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1972.
Specific conductance: October 1969 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum, 1,740 micromhos Oct. 29; minimum, 843 micromhos May 22.

Period of record:
Specific conductance: Maximum, 1,740 micromhos Oct. 29, 1971; minimum, 672 micromhos May 5, 1971.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT.					
12...	1000	33	680	1180	27.0
20...	1110	32	688	1160	24.5
28...	1430	32	628	1100	24.0
NOV.					
03...	1430	34	616	1110	24.0
11...	1045	30	632	1030	24.0
18...	1320	31	656	1020	23.0
24...	1400	32	748	1270	23.0
DEC.					
01...	1210	29	668	1090	21.0
09...	1400	28	632	1090	22.0
16...	1045	27	620	1120	20.0
23...	1000	25	648	1100	21.5
29...	1600	24	652	1150	20.0
JAN.					
03...	1215	22	568	1080	19.0
10...	1200	26	580	1110	--
17...	1210	26	640	1130	--
27...	1300	26	668	1260	21.0
FEB.					
01...	1500	26	628	1210	--
08...	1130	26	612	1090	--
16...	1420	26	712	1120	--
MAR.					
01...	1345	26	740	1090	--
10...	1100	30	588	1020	--
16...	1125	30	656	1080	--
23...	1145	31	656	1060	--
30...	1310	26	640	1110	--
APR.					
06...	1220	30	700	1110	--
13...	1035	31	620	1020	--
20...	0955	31	680	1050	--
27...	1000	31	740	1080	--
MAY					
01...	1105	33	716	1010	--
17...	1155	30	720	1240	--
19...	1305	32	696	1200	--
26...	1030	30	648	1110	--
JUNE					
01...	1145	32	720	1190	--
06...	1300	32	664	1140	--
16...	1140	33	656	1120	--
22...	1130	32	588	1030	--
28...	1140	33	720	1150	--
JULY					
06...	1315	35	--	1190	27.5
07...	1020	32	844	1180	--
14...	1145	32	660	1140	--
20...	1100	32	676	1120	--
28...	1115	32	684	1120	--
AUG.					
01...	1200	32	752	1180	--
10...	1140	32	728	1150	--
11...	1130	32	716	1160	--
21...	1045	32	688	1110	--
31...	1145	32	732	1170	--
SEP.					
14...	1230	30	828	1360	--
19...	1230	30	820	1350	--
26...	1025	31	804	1260	--

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

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
OCT.				
12...	1000	33	1140	27.0
20...	1110	32	1140	24.5
28...	1430	32	1100	24.0
NOV.				
03...	1430	34	1080	24.0
11...	1045	30	1030	24.0
18...	1320	31	1020	23.0
24...	1400	32	1270	23.0
DEC.				
01...	1210	29	1060	21.0
09...	1400	28	1090	22.0
16...	1045	27	1120	20.0
23...	1000	25	1070	21.5
29...	1600	24	1150	20.0
JAN.				
03...	1215	22	1080	19.0
10...	1200	26	1110	--
17...	1210	26	1130	--
27...	1300	26	1200	21.0
FEB.				
01...	1500	26	1250	--
08...	1130	26	1090	--
16...	1420	26	1150	--
MAR.				
01...	1345	26	1210	--
10...	1100	30	997	--
16...	1125	30	1080	--
23...	1145	31	1060	--
30...	1310	26	1090	--
APR.				
06...	1220	30	1130	--
13...	1035	31	1020	--
20...	0955	31	1050	--
27...	1000	31	1100	--
MAY				
01...	1105	33	1010	--
17...	1155	30	1240	--
19...	1305	32	1200	--
26...	1030	30	1070	--
JUNE				
01...	1145	32	1170	--
06...	1300	32	1120	--
16...	1140	33	1100	--
22...	1130	32	1030	--
28...	1140	33	1150	--
JULY				
06...	1315	35	1190	27.5
07...	1020	32	1120	--
14...	1145	32	1090	--
20...	1100	32	1120	--
28...	1115	32	1120	--
AUG.				
01...	1200	32	1160	--
10...	1140	32	1130	--
11...	1130	32	1160	--
21...	1045	32	1080	--
31...	1145	32	1150	--
SEP.				
14...	1230	30	1360	--
19...	1230	30	1350	--
26...	1025	31	1240	--

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1070	1000	1050	1050	917	998	1160	1030	1110	1130	1040	1080
2	1100	989	1060	1070	984	1020	1150	1050	1090	1120	1030	1070
3	1130	1010	1070	1090	996	1040	1120	1030	1070	1170	1030	1090
4	1240	1040	1160	1200	1040	1100	1100	998	1040	1180	1090	1140
5	1210	1100	1150	1200	1090	1150	1080	992	1040	1240	1090	1150
6	1240	1070	1160	1150	1020	1060	1220	1030	1120	1260	1130	1200
7	1280	1120	1210	1090	965	1030	1190	1080	1140	1250	1130	1200
8	1210	1090	1170	1110	1020	1080	1150	1010	1090	1210	1130	1180
9	1190	1090	1120	1090	1020	1070	1200	1030	1100	1180	1110	1140
10	1120	1020	1070	1080	974	1040	1200	1080	1160	1370	1090	1180
11	1200	1040	1150	1130	1030	1080	1170	1040	1100	1300	1120	1210
12	1230	1120	1170	1120	1040	1090	1110	1000	1040	1280	1180	1240
13	1260	1110	1190	1090	1010	1040	1200	1050	1110	1340	1160	1230
14	1210	1050	1120	1060	1000	1040	1250	1060	1130	1360	1210	1280
15	1110	1020	1080	1130	957	1030	1260	1080	1160	1310	1170	1230
16	1100	1000	1060	1130	1040	1090	1210	1070	1140	1210	1110	1170
17	1060	985	1030	1090	1000	1050	1190	1060	1120	1330	1130	1210
18	1130	987	1060	1110	990	1060	1170	1060	1090	1340	1170	1250
19	1260	1110	1190	1100	1030	1070	---	---	---	1320	1260	1290
20	1250	1110	1190	1060	1010	1050	---	---	---	1330	1180	1260
21	1180	1060	1110	1080	1020	1050	---	---	---	1350	1230	1300
22	1110	1040	1080	1110	973	1060	---	---	---	1300	1110	1200
23	1060	996	1040	1350	1050	1180	1110	1040	1070	1130	1050	1080
24	1050	961	1010	1300	1200	1250	1110	943	1040	1220	1000	1120
25	1080	940	1020	1190	1050	1140	972	890	927	1330	1110	1210
26	1140	1050	1100	1170	1010	1080	1020	965	994	---	---	---
27	1150	1040	1110	1160	1060	1110	1110	992	1040	1310	1200	1260
28	1290	1020	1100	1120	1050	1090	1210	1060	1110	1300	1200	1260
29	1740	1030	1210	1170	1000	1090	1330	1120	1180	1250	1180	1210
30	1060	953	1000	1230	1080	1140	1320	1120	1220	1290	1020	1130
31	1040	967	1010	---	---	---	1380	1170	1220	1260	1040	1150
MONTH	1740	940	1100	1350	917	1080	1380	890	1100	1370	1000	1190

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1370	1210	1290	1330	1120	1220	1150	1010	1060	1030	968	1020
2	1300	1160	1200	1170	990	1070	1030	970	1000	1100	992	1060
3	1340	1090	1190	1160	1060	1120	1130	980	1040	1120	1030	1080
4	1320	1180	1250	1160	1050	1100	1180	1040	1110	1200	1040	1110
5	1230	1100	1160	1160	1060	1120	1150	1040	1090	1250	1040	1130
6	1170	1080	1130	1150	1050	1110	1190	1070	1120	1180	1030	1080
7	1170	1020	1100	1200	1120	1170	1190	996	1100	1060	1000	1030
8	1330	1080	1190	1160	1030	1090	1140	1000	1070	1250	1020	1090
9	1230	1070	1150	1130	999	1070	1070	1000	1040	1310	1070	1180
10	1210	1050	1130	1080	996	1050	1130	990	1050	1290	1110	1230
11	1300	1130	1210	1070	984	1020	1180	1010	1090	---	---	---
12	1240	1140	1180	1040	978	1010	1130	973	1040	---	---	---
13	1170	1090	1130	1130	996	1060	1120	1010	1050	1120	1070	1100
14	1260	1060	1150	1120	999	1080	1210	1010	1100	1110	1080	1090
15	1240	1140	1200	1120	930	1050	1190	1030	1090	1300	1050	1120
16	1220	1110	1170	1090	1020	1060	1140	999	1050	1380	998	1250
17	1190	1070	1130	1140	990	1050	1210	1040	1150	1290	1140	1250
18	1180	1100	1140	1110	987	1050	1180	1040	1120	1350	1170	1270
19	1170	999	1070	1000	946	973	1090	993	1040	---	---	---
20	1010	972	989	1100	934	1000	1160	1000	1060	1460	1040	1170
21	1010	966	983	1100	963	1040	1200	996	1090	1070	984	1040
22	1210	981	1050	1080	981	1040	1150	1020	1070	1200	843	1020
23	1260	1100	1160	1100	1020	1050	1090	1030	1060	1330	1070	1220
24	1330	1050	1140	1230	969	1090	1290	1020	1130	1310	1180	1250
25	1330	1120	1220	1240	1030	1120	1270	1070	1170	1310	1070	1200
26	1160	1040	1100	1080	990	1040	1250	1030	1140	1260	1070	1140
27	1110	990	1030	1230	999	1100	1280	1080	1170	1130	1060	1090
28	1190	978	1060	1210	1080	1150	1330	1150	1260	1120	1040	1070
29	1300	1060	1160	1210	1080	1130	1300	1150	1250	1300	1090	1160
30	---	---	---	1190	1030	1120	1160	1000	1060	1340	1100	1210
31	---	---	---	1180	1030	1120	---	---	---	1440	1290	1360
MONTH	1370	966	1140	1330	930	1080	1330	970	1100	1440	843	1140

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1430	1120	1320	1310	1110	1230	---	---	---	1300	1140	1230
2	1360	1140	1280	1250	1010	1100	1330	1090	1210	1290	1160	1230
3	1300	1130	1240	1310	1000	1110	1290	1060	1190	1190	1060	1150
4	1170	1080	1120	1270	1090	1190	1280	1070	1160	1200	1070	1150
5	1140	1040	1100	1300	1070	1220	1200	1020	1060	1250	1140	1200
6	1310	1070	1170	1300	1040	1190	---	---	---	1230	1130	1180
7	1270	1100	1180	1250	1040	1190	---	---	---	1200	1100	1150
8	1250	1080	1130	1210	1040	1100	---	---	---	1200	1130	1160
9	1310	1040	1170	1070	983	1040	---	---	---	1230	1120	1180
10	1330	1110	1240	1090	980	1040	---	---	---	1170	1020	1100
11	1120	1070	1100	1220	1040	1090	1390	1140	1270	1180	1020	1100
12	1340	1070	1190	1250	1070	1100	1360	1110	1260	1270	1080	1190
13	1420	1150	1280	1190	1060	1110	1310	1070	1180	1300	1140	1230
14	1460	1250	1350	1340	1080	1180	1220	975	1060	1430	1230	1330
15	1370	1200	1300	1180	1100	1130	1280	985	1120	1360	1300	1330
16	1350	1100	1210	1130	1050	1090	1300	1030	1190	1340	1290	1310
17	1320	1130	1200	1300	1010	1130	1270	1150	1210	1290	1230	1250
18	1180	1080	1120	1340	1100	1240	---	---	---	1290	1240	1260
19	1280	1050	1150	1350	1120	1240	---	---	---	---	---	---
20	1390	1120	1250	1320	1120	1190	---	---	---	1340	1260	1290
21	1380	1150	1270	1200	1090	1140	---	---	---	1330	1260	1300
22	1230	990	1120	1140	1050	1100	1160	1070	1120	1360	1250	1320
23	1150	1080	1120	1110	1030	1070	1240	1100	1170	1370	1280	1310
24	1120	1040	1070	1360	1050	1160	1240	1130	1180	1270	1210	1240
25	1120	1030	1070	1390	1140	1270	1220	1130	1170	1300	1190	1250
26	1310	1070	1170	1330	1120	1220	1180	1120	1150	1350	1220	1300
27	1370	1150	1300	1340	1100	1210	1140	923	1080	1350	1310	1340
28	1340	1130	1270	1370	1120	1280	1140	878	1010	1320	1220	1280
29	1400	1130	1250	1350	1110	1260	1280	1110	1190	1420	1270	1340
30	1350	1280	1320	1170	1090	1120	1240	1110	1180	1400	1330	1360
31	---	---	---	1340	1090	1160	1250	1060	1170	---	---	---
MONTH	1460	990	1200	1390	980	1160	---	---	---	1430	1020	1240

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 downstream from axis of Prado Dam, and 4.5 miles west of Corona.

DRAINAGE AREA.--1,490 sq mi, not including 768 sq mi upstream from Lake Elsinore.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1972.
Chloride: October 1970 to September 1971.
Specific conductance: October 1969 to September 1972.
Water temperatures: October 1969 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum, 1,810 micromhos Dec. 22; minimum, 504 micromhos Dec. 28.
Water temperatures: Maximum, 36.0°C Sept. 4; minimum, 4.0°C Dec. 9.

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.

REMARKS.--Selected chemical analyses furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
OCT.											
21...	1315	3.6	123	34	137	8.8	392	0	322	164	172
NOV.											
23...	1500	62	116	34	122	7.6	370	0	303	149	150
DEC.											
16...	1530	50	113	30	123	8.3	348	0	285	144	156
JAN.											
05...	1530	233	86	23	87	25	262	0	215	114	123
FEB.											
25...	0845	88	94	28	117	8.2	312	0	256	127	136
MAR.											
24...	1330	70	96	26	112	8.4	325	0	267	119	130
APR.											
26...	0830	71	89	30	110	7.4	303	0	249	119	130
JUNE											
01...	1315	52	91	27	112	8.0	294	0	241	119	131
29...	1310	37	106	28	110	6.3	316	0	259	137	142
JULY											
27...	1330	43	93	30	108	7.3	292	0	239	125	133
AUG.											
24...	0730	31	91	29	100	7.6	280	0	230	120	127
SEP.											
29...	0815	50	106	29	118	7.9	330	0	271	136	144

DATE	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (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)
OCT.									
21...	.8	4.7	--	--	1.4	870	1.18	447	130
NOV.									
23...	.6	5.1	--	--	--	806	1.10	429	130
DEC.									
16...	.6	6.3	--	--	--	794	1.08	406	120
JAN.									
05...	.4	5.1	.60	.77	1.8	639	.87	309	94
FEB.									
25...	.7	7.7	--	--	3.0	720	.98	350	94
MAR.									
24...	.7	5.6	--	--	3.0	693	.94	347	80
APR.									
26...	.8	8.1	--	--	3.0	696	.95	346	97
JUNE									
01...	.8	9.0	--	--	3.1	682	.93	338	97
29...	.7	7.7	--	--	2.2	720	.98	380	120
JULY									
27...	.8	8.6	--	--	2.6	729	.99	356	120
AUG.									
24...	.8	9.0	--	--	3.3	688	.94	346	120
SEP.									
29...	.7	7.5	--	--	2.4	778	1.06	384	110

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT.								
21...	39	2.8	1380	8.2	17.0	36	.30	420
NOV.								
23...	38	2.6	1270	8.3	12.5	14	--	330
DEC.								
16...	39	2.7	1250	7.7	9.0	44	--	360
JAN.								
05...	36	2.2	1010	7.0	8.0	32	.70	340
FEB.								
25...	41	2.7	1130	7.4	10.0	--	.70	560
MAR.								
24...	41	2.6	1150	7.5	22.0	70	1.0	460
APR.								
26...	40	2.6	1110	7.5	14.5	36	.90	460
JUNE								
01...	41	2.6	1120	7.6	28.5	43	.60	590
29...	38	2.5	1120	7.9	28.0	42	.30	500
JULY								
27...	39	2.5	1120	7.8	29.5	26	.60	510
AUG.								
24...	38	2.3	1090	7.4	20.5	41	.80	520
SEP.								
29...	39	2.6	1190	7.6	19.0	45	.40	490

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS))	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)
OCT.					
12...	1415	39	904	1390	18.5
21...	1245	6.8	924	1440	14.0
28...	1230	58	876	1380	13.0
NOV.					
03...	1100	51	868	1330	11.5
10...	1400	50	864	1370	11.0
24...	1230	57	832	1340	11.0
DEC.					
01...	1400	65	820	1340	12.0
09...	0945	62	820	1330	4.5
16...	0900	64	840	1330	4.0
23...	0800	155	704	1380	16.5
24...	1030	154	684	1110	13.5
26...	1600	195	392	664	12.0
27...	0945	205	324	532	12.5
28...	1100	478	294	501	11.5
29...	1730	548	318	536	10.5
30...	1420	520	314	543	10.5
31...	1245	562	376	599	9.5
JAN.					
01...	1020	576	410	685	9.0
02...	1015	555	434	723	9.0
03...	1000	534	478	787	8.5
04...	0730	--	552	867	8.0
05...	0720	235	644	1030	7.0
06...	0725	--	596	1050	6.0
07...	0730	210	668	1110	6.5
11...	0730	--	868	1350	8.5
13...	0730	--	908	1430	8.5
14...	0725	--	852	1290	10.0
17...	0725	85	808	1260	8.0
18...	0730	94	700	1290	10.0
26...	1445	87	788	1310	--
FEB.					
01...	1700	88	768	1260	15.0
08...	1415	82	680	1240	--

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)
FEB.					
16...	1100	87	792	1200	14.0
MAR.					
01...	1500	85	768	1230	--
10...	1330	85	712	1210	--
14...	1430	87	772	1210	--
20...	1300	79	760	1140	--
30...	1350	75	860	1250	--
APR.					
06...	1030	70	844	1170	--
13...	0915	70	728	1120	--
20...	1410	--	772	1180	--
27...	1345	39	768	1160	--
MAY					
01...	0850	40	828	1120	--
09...	1500	33	756	1164	--
19...	1545	33	736	1190	--
26...	1350	50	732	1200	--
JUNE					
01...	1530	413	764	1160	--
07...	1015	38	772	1190	--
16...	1500	52	772	1230	--
22...	1500	45	736	1170	--
28...	1500	42	716	1130	--
JULY					
07...	1235	35	860	1210	--
14...	1450	40	736	1180	--
20...	1500	35	748	1190	--
28...	1455	39	848	1200	--
AUG.					
02...	1215	31	744	1170	--
23...	1030	32	732	1160	--
31...	0900	47	724	1100	--
SEP.					
11...	1300	46	684	1110	--
22...	1445	27	812	1270	--
26...	1335	39	852	1270	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
12...	1415	39	--	1350	--	18.5	--
21...	1245	6.8	--	1410	--	14.0	--
21...	1315	3.6	322	1380	8.1	17.0	10.4
28...	1230	58	--	1350	--	13.0	--
NOV.							
03...	1100	51	--	1320	--	11.5	--
10...	1400	50	--	1330	--	11.0	--
23...	1500	62	303	--	7.9	12.5	9.5
24...	1230	57	--	1340	--	11.0	--
DEC.							
01...	1400	65	--	1340	--	12.0	--
09...	0945	62	--	1330	--	4.5	--
16...	0900	64	--	1330	--	4.0	--
16...	1530	50	285	1400	8.0	9.0	10.1
23...	0800	155	--	1350	--	11.5	--
24...	1030	154	--	1110	--	13.5	--
26...	1600	195	--	652	--	12.0	--
27...	0945	205	--	542	--	12.5	--
28...	1100	478	--	504	--	11.5	--
29...	1730	548	--	536	--	10.5	--
30...	1420	520	--	543	--	10.5	--
31...	1245	562	--	599	--	9.5	--

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

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
JAN.							
01...	1020	576	--	685	--	9.0	--
02...	1015	555	--	723	--	9.0	--
03...	1000	534	--	787	--	8.5	--
04...	0730	--	--	838	--	8.0	--
05...	0720	235	--	1030	--	7.0	--
05...	1530	233	215	1200	7.4	8.0	8.4
06...	0725	--	--	1050	--	6.0	--
07...	0730	210	--	1110	--	6.5	--
11...	0730	--	--	1350	--	8.5	--
13...	0730	--	--	1430	--	8.5	--
14...	0725	--	--	1300	--	10.0	--
17...	0725	85	--	1260	--	8.0	--
18...	0730	94	--	1290	--	10.0	--
26...	1445	87	--	1290	--	--	--
FEB.							
01...	1700	88	--	1260	--	15.0	--
08...	1415	82	--	1240	--	--	--
16...	1100	87	--	1200	--	14.0	--
25...	0845	88	256	1300	7.8	10.0	8.5
MAR.							
01...	1500	85	--	1230	--	--	--
10...	1330	85	--	1210	--	--	--
14...	1430	87	--	1210	--	--	--
20...	1300	79	--	1200	--	--	--
24...	1330	70	267	1250	7.9	22.0	7.7
30...	1350	75	--	1230	--	--	--
APR.							
06...	1030	70	--	1170	--	--	--
13...	0915	70	--	1120	--	--	--
20...	1410	--	--	1180	--	--	--
26...	0830	71	249	1200	7.8	14.5	8.0
27...	1345	39	--	1160	--	--	--
MAY							
01...	0850	40	--	1090	--	--	--
09...	1500	33	--	1140	--	--	--
19...	1545	33	--	1190	--	--	--
26...	1350	50	--	1160	--	--	--
JUNE							
01...	1315	52	241	1170	7.9	28.5	7.2
01...	1530	413	--	1160	--	--	--
07...	1015	38	--	1190	--	--	--
16...	1500	52	--	1230	--	--	--
22...	1500	45	--	1170	--	--	--
28...	1500	42	--	1130	--	--	--
29...	1310	37	259	1230	8.1	28.0	7.3
JULY							
07...	1235	35	--	1180	--	--	--
14...	1450	40	--	1150	--	--	--
20...	1500	35	--	1190	--	--	--
27...	1330	43	239	1270	8.0	29.5	7.2
28...	1455	39	--	1170	--	--	--
AUG.							
02...	1215	31	--	1170	--	--	--
23...	1030	32	--	1140	--	--	--
24...	0730	31	230	1180	7.7	20.5	6.0
31...	0900	47	--	1100	--	--	--
SEP.							
11...	1300	46	--	1110	--	--	--
22...	1445	27	--	1270	--	--	--
26...	1335	39	--	1270	--	--	--
29...	0815	50	271	1280	7.9	19.0	7.5

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1350	1320	1330	1330	1270	1300	1340	1300	1320	708	610	665
2	1370	1290	1330	1320	1260	1290	1350	1310	1330	796	718	740
3	1370	1280	1320	1320	1280	1300	1370	1340	1350	856	740	787
4	1360	1280	1310	1350	1300	1320	1380	1340	1360	996	768	902
5	1420	1290	1340	1350	1310	1330	1360	1300	1320	1140	998	1040
6	1370	1300	1330	1360	1330	1340	1340	1270	1310	1110	1000	1030
7	1360	1290	1320	1380	1340	1350	1320	1300	1310	---	---	---
8	1360	1300	1320	1370	1330	1340	1340	1300	1320	1260	1150	1200
9	1450	1320	1370	1370	1320	1340	1340	1280	1310	1330	1210	1260
10	1370	1300	1330	1370	1320	1340	1320	1290	1310	1380	1280	1330
11	1360	1290	1320	1350	1310	1330	1320	1300	1310	1420	1340	1390
12	1350	1300	1320	1390	1330	1360	1340	1300	1320	---	---	---
13	1500	1340	1420	1380	1300	1340	1340	1310	1330	1450	1320	1400
14	1410	1370	1390	1330	1290	1310	1340	1290	1310	1340	1300	1320
15	1410	1370	1390	1320	1260	1290	1340	1290	1310	1320	1250	1290
16	1480	1300	1420	1310	1250	1280	1330	1270	1310	1290	1230	1260
17	---	---	---	1310	1270	1290	1320	1280	1300	1330	1240	1290
18	1600	1400	1500	1310	1280	1300	1330	1290	1310	1310	1250	1280
19	1410	1340	1380	1330	1300	1310	1360	1300	1330	1310	1250	1280
20	1420	1300	1390	1340	1300	1320	1340	1290	1310	1310	1250	1270
21	1600	1280	1380	1340	1280	1310	1330	1310	1320	1310	1250	1280
22	---	---	---	1340	1290	1310	1810	1260	1410	1320	1250	1290
23	---	---	---	1380	1300	1320	1390	1140	1290	1290	1240	1270
24	---	---	---	1350	1290	1330	1120	1070	1090	1250	1190	1230
25	1380	1310	1350	1360	1330	1340	1210	606	885	1270	1190	1240
26	1620	1320	1390	1350	1300	1320	652	552	589	1290	1230	1260
27	1390	1350	1360	1310	1270	1290	568	508	542	1320	1250	1270
28	1380	1350	1360	1310	1280	1300	536	504	517	1300	1250	1270
29	1370	1320	1340	1320	1290	1300	546	520	532	1290	1260	1280
30	1370	1310	1340	1340	1310	1320	598	538	556	---	---	---
31	1370	1310	1340	---	---	---	632	586	603	---	---	---
MONTH	1620	1280	1360	1390	1250	1320	1810	504	1150	1450	610	1190

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1230	1170	1200	1190	1080	1160	1100	1020	1060
2	1270	1220	1240	1230	1110	1220	---	---	---	1080	1040	1070
3	1230	1200	1210	---	---	---	1160	1140	1140	1100	1080	1090
4	1250	1210	1220	---	---	---	1160	1130	1150	1180	1090	1130
5	1250	1220	1240	---	---	---	1170	1090	1150	1160	1120	1140
6	1260	1220	1250	1190	1090	1160	1170	1160	1160	1140	1120	1130
7	1230	1200	1220	1210	1180	1190	1180	1150	1170	1150	1120	1130
8	1240	1200	1220	1220	1160	1200	1160	1140	1150	1130	1110	1130
9	1240	1200	1220	1220	1150	1200	1160	1140	1140	1150	1110	1120
10	1240	1190	1210	---	---	---	1130	1030	1110	1160	1110	1130
11	1230	1190	1200	---	---	---	1150	1120	1130	1150	1130	1140
12	1240	1200	1220	---	---	---	1160	1130	1140	1160	1090	1130
13	1230	1200	1220	---	---	---	1140	1120	1140	1180	1070	1150
14	1220	1180	1200	---	---	---	1150	1130	1140	1110	1030	1080
15	1230	1180	1210	1200	1160	1180	1160	1130	1140	1120	1100	1110
16	1240	1200	1220	1190	1170	1180	1160	1100	1140	1210	1100	1160
17	1230	1180	1210	1190	1160	1170	1150	1120	1140	1210	1100	1160
18	1190	1120	1160	1210	1170	1190	1180	1140	1160	1250	1090	1160
19	1180	1130	1160	1200	1180	1190	1170	1060	1130	---	---	---
20	---	---	---	1200	1180	1190	1180	1160	1160	1180	1080	1140
21	1160	1130	1150	1200	1170	1190	1190	1160	1170	1140	998	1090
22	1140	1120	1130	1200	1170	1180	1220	1160	1200	1150	1030	1100
23	1160	1120	1140	1190	1140	1170	---	---	---	1150	1020	1100
24	1200	1140	1170	1190	1160	1170	1140	1120	1130	1180	1090	1140
25	1180	1140	1160	1200	1160	1180	1180	1130	1160	1210	1040	1100
26	1160	1120	1140	1170	1160	1170	1180	1070	1150	1170	1070	1150
27	1130	1090	1110	1170	1140	1160	1160	1040	1120	1160	1030	1110
28	1210	1140	1190	1210	1140	1180	1170	1020	1120	1160	970	1100
29	1400	1180	1210	1230	1190	1210	1160	1120	1140	1180	1100	1130
30	---	---	---	1230	1040	1180	1180	1120	1140	---	---	---
31	---	---	---	1530	1060	1160	---	---	---	---	---	---
MONTH	1400	1090	1190	---	---	---	1220	1020	1150	1250	970	1120

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

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1170	1090	1140	1230	1100	1170	---	---	---	1190	935	1120
2	1330	933	1100	1250	1050	1170	1180	1130	1160	1150	1060	1110
3	1150	1030	1120	1200	949	1080	1210	1120	1160	1100	1020	1080
4	---	---	---	1130	911	1050	1240	1050	1130	---	---	---
5	---	---	---	1160	940	1130	---	---	---	1110	1020	1080
6	---	---	---	1280	1140	1210	---	---	---	---	---	---
7	1190	1150	1160	1210	1090	1160	---	---	---	1120	927	1050
8	1150	1110	1140	1240	1110	1190	1120	1030	1080	1120	874	1050
9	1170	1110	1140	1250	1120	1180	1150	1050	1110	1110	1040	1090
10	1200	1150	1180	---	---	---	1210	1100	1160	1140	1080	1100
11	1190	1070	1170	---	---	---	1140	944	1100	1150	1060	1110
12	---	---	---	---	---	---	1160	984	1100	1100	1050	1090
13	1190	1140	1170	---	---	---	---	---	---	1140	1050	1110
14	1240	1190	1210	1160	1140	1160	---	---	---	1150	1110	1130
15	1280	1170	1220	1150	1140	1140	---	---	---	---	---	---
16	1230	1150	1210	1160	1050	1140	---	---	---	---	---	---
17	1220	1130	1180	---	---	---	---	---	---	---	---	---
18	1210	1140	1180	---	---	---	---	---	---	---	---	---
19	1210	1070	1160	---	---	---	---	---	---	---	---	---
20	1190	1150	1170	1190	1140	1170	---	---	---	---	---	---
21	1280	1160	1200	1220	1130	1170	---	---	---	---	---	---
22	---	---	---	1160	1090	1130	---	---	---	---	---	---
23	1200	993	1110	1140	1010	1090	1140	1040	1110	1280	1250	1260
24	1220	1020	1090	1170	1040	1070	1160	1040	1100	1290	1270	1280
25	1150	1040	1100	1130	1070	1110	1280	1020	1120	1300	1240	1270
26	1140	1090	1110	1140	1090	1120	1140	1030	1080	1280	1220	1260
27	1150	1100	1120	1160	1050	1140	1190	1010	1100	1280	1220	1250
28	1190	1110	1140	1230	1050	1150	1350	1020	1130	1240	1190	1220
29	1270	1190	1230	---	---	---	1110	1040	1090	1250	1190	1220
30	1270	1230	1250	---	---	---	1170	1010	1070	1220	1170	1210
31	---	---	---	---	---	---	1170	1090	1130	---	---	---
MONTH	1330	933	1160	---	---	---	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.5	11.0	25.0	13.5	29.5	18.5	29.0	19.5	31.5	20.5	27.5	21.0
2	23.5	12.0	25.5	13.5	27.5	19.0	29.0	18.5	29.5	20.0	31.5	20.5
3	23.5	13.0	23.5	13.5	29.0	20.0	29.0	17.5	28.5	20.0	27.0	20.5
4	23.5	14.0	24.0	15.5	30.0	19.0	30.0	18.0	29.0	20.5	36.0	22.0
5	22.0	14.5	23.0	14.5	29.0	20.0	29.0	18.5	29.5	19.5	30.5	23.0
6	24.5	16.0	18.5	14.5	---	---	29.5	18.5	30.5	21.0	28.5	23.0
7	24.0	13.0	23.0	14.0	---	---	29.5	18.5	30.0	20.5	27.0	21.5
8	23.5	13.0	25.0	14.0	23.0	19.0	29.5	19.0	29.5	20.5	26.0	21.0
9	24.0	12.0	24.5	13.5	21.0	18.5	30.0	18.0	28.5	20.5	27.5	21.0
10	20.5	14.5	25.0	13.5	27.5	17.5	29.0	18.0	29.0	20.0	24.5	21.0
11	19.0	12.5	26.5	14.5	28.5	16.0	31.0	19.5	29.5	20.5	25.0	19.5
12	22.5	12.5	27.0	15.0	27.5	17.0	30.0	20.5	27.0	21.5	23.5	16.5
13	22.5	12.5	28.0	15.0	28.0	17.5	30.5	20.0	28.0	21.5	23.0	15.5
14	22.5	10.0	27.5	14.5	28.0	19.0	29.5	20.5	28.5	21.5	---	---
15	24.0	9.5	26.0	15.0	28.5	17.5	29.5	20.5	27.0	19.5	---	---
16	25.0	11.0	26.0	16.5	29.0	18.0	30.0	20.5	26.5	18.0	---	---
17	23.0	11.0	26.0	16.0	---	---	29.5	19.5	---	---	---	---
18	20.5	13.5	24.0	16.0	---	---	29.5	20.5	---	---	---	---
19	16.5	10.5	19.0	14.5	---	---	27.0	19.5	---	---	---	---
20	21.5	7.0	22.5	12.5	---	---	27.0	19.0	---	---	---	---
21	23.5	10.5	23.5	11.5	---	---	28.5	19.0	---	---	---	---
22	23.5	10.5	25.5	13.0	---	---	28.5	17.5	---	---	---	---
23	24.0	12.0	25.5	13.5	---	---	29.0	18.0	---	---	23.5	17.0
24	23.5	14.0	23.5	16.0	---	---	29.0	17.5	26.0	20.5	20.0	18.0
25	25.0	13.5	23.5	15.5	---	---	29.0	17.5	27.0	20.5	22.5	16.5
26	26.0	12.0	25.0	13.5	---	---	29.5	18.0	25.5	18.5	22.5	16.0
27	25.5	13.0	25.5	14.5	28.5	16.5	30.5	18.5	25.5	20.0	21.5	16.5
28	25.0	13.0	28.5	16.5	28.5	16.5	29.5	19.5	32.0	22.5	23.0	18.0
29	25.0	13.5	30.0	16.5	30.0	17.0	29.5	20.0	27.0	20.5	23.5	18.5
30	25.5	13.5	29.5	18.5	29.0	19.0	32.0	21.0	35.0	23.0	24.0	18.0
31	---	---	27.5	18.5	---	---	32.0	21.0	31.5	22.0	---	---
MONTH	26.0	7.0	30.0	11.5	---	---	32.0	17.5	---	---	---	---

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 mile north of Azusa.

PERIOD OF RECORD.--Chemical analyses: December 1907 to December 1908, October 1966 to September 1972.

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 1971 TO SEPTEMBER 1972

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)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.									
22...	1045	45	49	13	13	3.7	215	0	176
NOV.									
22...	1515	22	52	16	13	3.6	223	0	183
DEC.									
17...	1700	22	54	14	12	4.0	224	0	184
JAN.									
06...	1200	50	41	9.4	8.3	3.1	154	0	126
FEB.									
24...	1330	55	46	12	9.8	3.3	183	0	150
MAR.									
23...	1315	45	46	13	10	3.3	190	0	156
APR.									
28...	1330	35	52	13	11	3.6	211	0	173
JUNE									
03...	1300	30	46	14	12	4.0	196	0	161
30...	1200	20	46	13	10	3.8	197	0	162
JULY									
28...	0930	20	48	14	10	3.8	200	0	164
AUG.									
23...	1230	25	48	14	10	3.8	203	0	167
SEP.									
28...	1315	25	47	15	11	4.0	208	0	171

DATE	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 NITRATE (NO3) (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.									
22...	28	5.0	.5	.07	.30	197	.27	176	0
NOV.									
22...	28	5.0	.4	.27	1.2	236	.32	196	13
DEC.									
17...	28	5.0	.4	.05	.20	226	.31	192	8
JAN.									
06...	26	4.0	.3	.90	4.0	146	.20	141	15
FEB.									
24...	28	4.0	.3	.61	2.7	195	.27	165	15
MAR.									
23...	30	5.0	.3	.32	1.4	183	.25	169	13
APR.									
28...	30	5.0	.4	.23	1.0	184	.25	183	10
JUNE									
03...	27	6.0	.5	.27	1.2	177	.24	173	12
30...	24	6.0	.3	.47	2.1	204	.28	169	7
JULY									
28...	24	6.0	.4	.50	2.2	203	.28	178	14
AUG.									
23...	24	5.0	.5	.43	1.9	187	.25	178	11
SEP.									
28...	27	5.0	.3	.34	1.5	219	.30	179	8

11082800 SAN GABRIEL RIVER AT AZUSA POWERHOUSE, AT AZUSA, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.							
22...	14	.4	373	8.1	17.0	1	70
NOV.							
22...	12	.4	402	8.1	12.0	2	70
DEC.							
17...	12	.4	402	8.0	9.0	3	90
JAN.							
06...	11	.3	301	8.0	9.0	--	80
FEB.							
24...	11	.3	344	7.7	10.0	--	60
MAR.							
23...	11	.3	354	8.0	12.0	2	70
APR.							
28...	11	.4	379	8.1	16.0	6	70
JUNE							
03...	13	.4	364	8.1	23.0	1	70
30...	11	.3	360	8.1	13.5	0	30
JULY							
28...	11	.3	366	8.0	14.0	2	80
AUG.							
23...	11	.3	368	8.0	15.0	1	60
SEP.							
28...	12	.4	372	8.0	16.5	3	70

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
22...	1045	45	--	7.9	17.0	9.4
NOV.						
22...	1515	22	475	8.2	12.0	11.1
DEC.						
17...	1700	22	400	7.9	9.0	11.0
JAN.						
06...	1200	50	355	7.9	9.0	11.0
FEB.						
24...	1330	55	400	8.1	10.0	10.7
MAR.						
23...	1315	45	450	8.1	12.0	10.0
APR.						
28...	1330	35	--	7.9	16.0	9.3
JUNE						
03...	1300	30	400	8.1	23.0	8.1
30...	1200	20	435	8.0	13.5	11.2
JULY						
28...	0930	20	425	7.9	14.0	10.9
AUG.						
23...	1230	25	440	7.8	15.0	10.5
SEP.						
28...	1315	25	425	7.9	16.5	10.6

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 from end of San Gabriel Boulevard (Siphon Road), upstream from Whittier Narrows Dam, and 2.5 miles northeast of Montebello.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1972.

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 1971 TO SEPTEMBER 1972

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)
OCT.										
22...	0945	184	85	33	114	5.8	164	0	135	309
NOV.										
22...	1430	90	83	34	112	6.5	164	0	135	289
DEC.										
17...	1630	179	--	--	--	--	--	--	--	308
JAN.										
06...	1045	179	--	--	--	--	--	--	--	306
FEB.										
24...	1000	7.0	--	--	--	--	--	--	--	153
MAR.										
23...	1000	8.0	--	--	--	--	--	--	--	155
APR.										
28...	1000	10	--	--	--	--	--	--	--	142
JUNE										
03...	1030	9.0	--	--	--	--	--	--	--	175
30...	0915	10	--	--	--	--	--	--	--	159
AUG.										
23...	0855	6.0	--	--	--	--	--	--	--	171
SEP.										
28...	1200	7.0	--	--	--	--	--	--	--	165

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (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.									
22...	101	.5	1.5	6.6	735	1.00	365	348	210
NOV.									
22...	98	.4	3.4	15	738	1.00	179	347	210
DEC.									
17...	101	--	--	--	719	.98	347	346	--
JAN.									
06...	103	--	--	--	762	1.04	368	350	--
FEB.									
24...	123	--	--	--	671	.91	12.7	316	--
MAR.									
23...	105	--	--	--	633	.86	13.7	317	--
APR.									
28...	105	--	--	--	641	.87	17.3	278	--
JUNE									
03...	114	--	--	--	668	.91	16.2	325	--
30...	108	--	--	--	635	.86	17.1	309	--
AUG.									
23...	100	--	--	--	692	.94	11.2	310	--
SEP.									
28...	105	--	--	--	660	.90	12.5	330	--

11087040 SAN GABRIEL RIVER AT WHITTIER NARROWS, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED BORON (B) (UG/L)
OCT.						
22...	41	2.7	1110	17.0	8	180
NOV.						
22...	41	2.6	--	15.5	7	170
DEC.						
17...	--	--	--	12.0	10	--
JAN.						
06...	--	--	--	11.5	11	--
FEB.						
24...	--	--	--	14.0	5	--
MAR.						
23...	--	--	--	19.5	2	--
APR.						
28...	--	--	--	23.0	8	--
JUNE						
03...	--	--	--	25.5	8	--
30...	--	--	--	21.5	2	--
AUG.						
23...	--	--	--	24.5	4	--
SEP.						
28...	--	--	--	26.0	8	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
OCT.					
22...	0945	135	--	8.1	17.0
NOV.					
22...	1430	135	1250	8.3	15.5
DEC.					
17...	1630	--	--	8.3	12.0
JAN.					
06...	1045	--	1280	8.1	11.5
FEB.					
24...	1000	--	1200	8.4	14.0
MAR.					
23...	1000	--	1130	8.3	19.5
APR.					
28...	1000	--	1550	8.4	23.0
JUNE					
03...	1030	--	1110	8.3	25.5
30...	0915	--	1100	8.1	21.5
AUG.					
23...	0855	--	1100	8.1	24.5
SEP.					
28...	1200	--	1050	8.4	26.0

11102000 MISSION CREEK NEAR MONTEBELLO, CALIF.

LOCATION.--Lat 34°01'45", long 118°04'07", in La Merced Grant, Los Angeles County, at gaging station on San Gabriel Boulevard Bridge, 2 miles northeast of Montebello.

DRAINAGE AREA.--4.16 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1972.

REMARKS.--Prior to October 1969, sampled at Mission Creek below Whittier Narrows Dam (sta 11102250). 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 1971 TO SEPTEMBER 1972

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)
OCT. 22...	0830	.30	116	32	27	2.2	269	0	221	200
NOV. 22...	1330	.42	127	35	27	2.8	287	0	235	209
DEC. 17...	1530	.94	--	--	--	--	--	--	--	209
JAN. 06...	0915	1.5	--	--	--	--	--	--	--	217
FEB. 24...	0900	1.6	--	--	--	--	--	--	--	113
MAR. 23...	0830	.50	--	--	--	--	--	--	--	213

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (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. 22...	38	.5	.81	3.6	557	.76	.45	421	200
NOV. 22...	39	.4	1.5	6.6	617	.84	.70	461	230
DEC. 17...	41	--	--	--	604	.82	1.53	456	--
JAN. 06...	46	--	--	--	627	.85	2.54	436	--
FEB. 24...	25	--	--	--	380	.52	1.64	283	--
MAR. 23...	45	--	--	--	605	.82	.82	451	--

11102000 MISSION CREEK NEAR MONTEBELLO, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 BORON (B) (UG/L)
OCT.							
22...	12	.6	825	7.9	13.5	1	110
NOV.							
22...	11	.5	882	8.0	19.0	2	100
DEC.							
17...	--	--	--	--	16.0	7	--
JAN.							
06...	--	--	--	--	12.0	8	--
FEB.							
24...	--	--	--	--	13.5	6	--
MAR.							
23...	--	--	--	--	15.0	6	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
22...	0830	.30	221	--	8.0	13.5	10.7
NOV.							
22...	1330	.42	235	1000	8.4	19.0	10.6
DEC.							
17...	1530	.94	--	750	8.1	16.0	9.4
JAN.							
06...	0915	1.5	--	900	7.8	12.0	9.4
FEB.							
24...	0900	1.6	--	660	7.8	13.5	8.9
MAR.							
23...	0830	.50	--	990	7.8	15.0	9.4

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 mile northeast of Camarillo State Hospital, and 1.4 miles downstream from Conejo Creek.

DRAINAGE AREA.--248 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1972.
Sediment records: October 1968 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 17,900 mg/l Dec. 27; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 142,000 tons Dec. 27; minimum daily, 0 tons on many days.

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 Jan. 25, 1969; minimum daily, 0 tons on many days during most years.

REMARKS.--No flow May 6, 26-28, May 30 to June 14, June 19, July 4, 5, 15, 16, July 28 to Aug. 8, Aug. 10, 11, 16, 17, 24-26.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	12.0	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	17.0	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	21.0
7	---	---	---	---	8.0	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	9.0	---	17.0	---	---	---	---	---	---	---
10	---	---	---	14.0	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	11.5	---	---	---	---	17.0	15.0	---	---	---	---
13	---	---	8.0	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	13.0	---	---	---	---	---	---	---	---	---	---
17	---	---	---	16.0	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	13.0	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	15.5	9.0	11.0	---	18.0	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	15.0	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	9.0	8.0	---	---	---	---	---	---	---	---
28	---	---	8.0	---	---	---	---	---	---	---	---	---
29	---	14.0	10.0	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.										
22...	0730	11.0	21	535	30	32	43	46	51	51
27...	0730	9.0	2300	19700	122000	40	44	48	64	84
27...	1110	9.0	3880	36400	381000	24	28	33	44	56
28...	0730	7.0	205	6760	3740	41	46	65	76	90
28...	1600	8.0	270	9460	6900	38	49	60	73	86

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.									
22...	51	--	53	--	74	--	100	--	--
27...	98	--	99	--	100	--	--	--	--
27...	--	64	--	75	--	92	--	99	100
28...	95	--	96	--	98	--	100	--	--
28...	94	--	97	--	99	--	100	--	--

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	2.5	10	.07	5.8	20	.31	5.0	25	.34
2	2.5	10	.07	5.8	20	.31	5.0	20	.27
3	1.7	10	.05	5.8	15	.23	6.6	30	.53
4	1.7	9	.04	5.8	15	.23	5.8	30	.47
5	1.7	9	.04	5.8	15	.23	5.0	25	.34
6	.80	8	.02	5.8	15	.23	5.0	20	.27
7	3.8	20	.21	5.8	15	.23	5.0	20	.27
8	3.8	15	.15	6.6	20	.36	4.2	15	.17
9	3.8	15	.15	5.8	15	.23	4.2	15	.17
10	4.6	20	.25	4.2	10	.11	5.0	20	.27
11	3.4	15	.14	5.0	11	.15	5.0	20	.27
12	4.2	20	.23	9.0	40	.97	5.8	25	.39
13	3.4	15	.14	8.2	35	.77	9.0	35	.85
14	3.0	10	.08	6.6	30	.53	8.2	30	.66
15	3.0	9	.07	6.6	30	.53	5.0	25	.34
16	3.0	8	.06	6.6	30	.53	4.6	20	.25
17	3.4	8	.07	5.8	25	.39	4.6	15	.19
18	3.8	8	.08	5.0	25	.34	6.6	25	.45
19	3.8	8	.08	4.6	20	.25	7.4	30	.60
20	3.4	7	.06	4.6	20	.25	7.4	30	.60
21	3.4	7	.06	5.8	25	.39	8.2	35	.77
22	4.2	8	.09	5.8	25	.39	87	2610	1410
23	4.6	10	.12	4.6	20	.25	18	280	14
24	13	249	47	4.2	20	.23	377	7440	13300
25	15	170	6.9	5.8	25	.39	174	4450	5090
26	7.4	35	.70	4.6	20	.25	134	3200	2280
27	5.8	20	.31	4.6	20	.25	1310	17900	142000
28	5.8	20	.31	4.6	20	.25	279	6810	7350
29	4.6	20	.25	5.8	30	.47	28	550	42
30	4.6	15	.19	7.4	37	.74	12	250	8.1
31	4.6	15	.19	--	--	--	9.8	200	5.3
TOTAL	134.30	--	58.18	172.4	--	10.79	2551.4	--	171507.87

	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	8.2	150	3.3	9.8	140	3.7	9.0	180	4.4
2	7.4	100	2.0	6.6	100	1.8	6.6	120	2.1
3	7.4	80	1.6	9.8	120	3.2	7.4	130	2.6
4	7.4	60	1.2	9.8	120	3.2	7.4	130	2.6
5	7.4	40	.80	11	140	4.2	6.6	120	2.1
6	8.2	50	1.1	11	110	3.3	8.2	160	3.5
7	9.8	60	1.6	14	80	3.0	5.0	90	1.2
8	9.8	60	1.6	9.0	100	2.4	5.0	80	1.1
9	11	70	2.1	9.0	160	3.9	5.0	70	.95
10	13	90	3.2	11	200	5.9	6.6	110	2.0
11	9.0	60	1.5	9.8	180	4.8	5.0	80	1.1
12	5.8	40	.63	9.8	170	4.5	5.0	70	.95
13	5.8	30	.47	9.8	160	4.2	6.6	120	2.1
14	6.6	50	.89	13	290	10	5.8	100	1.6
15	6.6	70	1.2	11	230	6.8	5.8	90	1.4
16	7.4	130	2.6	7.4	140	2.8	6.6	120	2.1
17	6.6	120	2.1	5.0	80	1.1	7.4	130	2.6
18	6.6	110	2.0	5.0	80	1.1	9.8	190	5.0
19	7.4	130	2.6	5.0	75	1.0	5.8	100	1.6
20	6.6	120	2.1	5.8	100	1.6	5.8	90	1.4
21	6.6	120	2.1	7.4	140	2.8	5.0	80	1.1
22	6.6	120	2.1	6.6	120	2.1	4.6	70	.87
23	6.6	130	2.3	8.2	160	3.5	5.0	80	1.1
24	6.6	130	2.3	11	230	6.8	5.0	80	1.1
25	7.4	140	2.8	8.2	170	3.8	5.0	70	.95
26	7.4	140	2.8	6.6	120	2.1	5.0	70	.95
27	9.0	180	4.4	5.0	85	1.1	5.8	100	1.6
28	8.2	160	3.5	6.6	115	2.0	6.6	120	2.1
29	9.0	180	4.4	5.8	100	1.6	6.6	120	2.1
30	7.4	140	2.8	--	--	--	7.4	130	2.6
31	7.4	130	2.6	--	--	--	5.0	80	1.1
TOTAL	240.2	--	66.69	248.0	--	98.3	191.4	--	57.97

11106550 CALLEGUAS CREEK AT CAMARILLO STATE HOSPITAL, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	5.8	100	1.6	1.7	30	.14	0	0	0
2	7.4	140	2.8	.63	25	.04	0	0	0
3	7.4	140	2.8	2.5	45	.30	0	0	0
4	7.4	130	2.6	.81	30	.07	0	0	0
5	6.6	120	2.1	.81	20	.04	0	0	0
6	5.8	100	1.6	0	0	0	0	0	0
7	4.6	75	.93	.36	15	.01	0	0	0
8	3.8	60	.62	9.0	190	4.6	0	0	0
9	3.0	40	.32	5.0	100	1.4	0	0	0
10	3.8	60	.62	5.0	90	1.2	0	0	0
11	4.2	70	.79	3.8	75	.77	0	0	0
12	5.0	90	1.2	4.6	90	1.1	0	0	0
13	5.0	90	1.2	3.8	80	.82	0	0	0
14	5.0	80	1.1	3.0	60	.49	0	0	0
15	5.0	80	1.1	3.4	70	.64	4.2	170	1.9
16	3.8	60	.62	2.6	45	.32	3.1	130	1.1
17	4.6	70	.87	2.3	60	5.5	.81	50	.11
18	5.8	90	1.4	2.1	40	.23	1.3	65	.23
19	6.6	120	2.1	2.1	35	.20	0	0	0
20	7.4	140	2.8	3.0	55	.45	.72	15	.03
21	3.4	50	.46	3.4	65	.60	2.5	40	.27
22	4.6	70	.87	2.5	45	.30	1.3	25	.09
23	6.6	120	2.1	3.4	60	.55	2.1	35	.20
24	5.8	80	1.3	2.5	40	.27	3.8	60	.62
25	3.8	60	.62	1.2	20	.06	3.4	50	.46
26	3.8	60	.62	0	0	0	2.5	40	.27
27	3.8	50	.51	0	0	0	4.2	65	.74
28	5.8	80	1.3	0	0	0	4.2	65	.74
29	1.7	30	.14	.20	15	.01	3.0	45	.36
30	.36	20	.02	0	0	0	6.6	120	2.1
31	--	--	--	0	0	0	--	--	--
TOTAL	147.66	--	37.11	69.71	--	20.11	43.73	--	9.22

	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	3.8	60	.62	0	0	0	2.5	30	.20
2	.81	20	.04	0	0	0	3.8	50	.51
3	.81	15	.03	0	0	0	3.8	50	.51
4	0	0	0	0	0	0	3.8	45	.46
5	0	0	0	0	0	0	3.8	45	.46
6	.90	15	.04	0	0	0	5.0	50	.68
7	.81	15	.03	0	0	0	3.8	35	.36
8	.63	20	.03	0	0	0	5.0	50	.68
9	.81	25	.05	.27	15	.01	3.8	30	.31
10	2.5	35	.24	0	0	0	3.8	25	.26
11	4.6	80	.99	0	0	0	6.6	60	1.1
12	.81	25	.05	.18	15	.01	6.6	60	1.1
13	.45	20	.02	5.0	80	1.1	5.8	55	.86
14	.45	15	.02	2.5	35	.24	5.8	50	.78
15	0	0	0	1.7	30	.14	5.8	45	.70
16	0	0	0	0	0	0	3.4	35	.32
17	.09	10	0	0	0	0	5.0	50	.68
18	.63	20	.03	.18	15	.01	5.0	45	.61
19	.09	10	0	.54	20	.03	6.6	60	1.1
20	.72	25	.05	.27	15	.01	5.8	55	.86
21	1.7	30	.14	.45	20	.02	5.8	50	.78
22	.63	20	.03	.54	20	.03	3.8	30	.31
23	.90	25	.06	.18	15	.01	4.2	35	.40
24	1.7	30	.14	0	0	0	4.6	40	.50
25	3.4	50	.46	0	0	0	5.0	45	.61
26	1.3	30	.11	0	0	0	5.0	40	.54
27	.63	20	.03	2.1	25	.14	2.1	25	.14
28	0	0	0	1.7	25	.11	.54	15	.02
29	0	0	0	.90	20	.05	5.8	50	.78
30	0	0	0	2.5	35	.24	6.6	55	.98
31	0	0	0	2.5	35	.24	--	--	--
TOTAL	29.17	--	3.21	21.51	--	2.39	138.94	--	17.60

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 3988.42
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 171889.44

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 mile west of Los Angeles-Ventura County Line.

DRAINAGE AREA.--644 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1972 (partial-record station).
Chloride: June to September 1969.
Specific conductance: June to September 1969, October 1970 to September 1972.
pH: June to September 1969.
Water temperatures: October 1968 to September 1972.
Sediment records: October 1968 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum recorded, 2,390 micromhos Jan. 23; minimum, 998 micromhos June 13.
Sediment concentrations: Maximum daily, 12,200 mg/l Dec. 27; minimum daily, 13 mg/l Oct. 11-14.
Sediment discharge: Maximum daily, 36,800 tons Dec. 27; minimum daily, 0.27 ton Sept. 28.

Period of record:
Specific conductance: Maximum, 3,600 micromhos Mar. 31, 1971; minimum, 990 micromhos Feb. 17, 1971.
Sediment concentrations: Maximum daily, 27,400 mg/l Nov. 29, 1970; minimum daily, 13 mg/l Oct. 11-14, 1971.
Sediment discharge: Maximum daily, 3,300,000 tons (estimated) Feb. 25, 1969; minimum daily, 0.05 ton Jan. 7, 1969.

REMARKS.--Miscellaneous samples of chemical data published for water year 1969.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	BICARBONATE (HCO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
OCT.												
19...	1500	--	--	--	--	--	--	528	75	--	1230	1.67
DEC.												
23...	1045	75	175	66	152	343	281	612	79	.9	1450	1.97
JAN.												
11...	1515	--	--	--	--	--	--	629	85	--	1410	1.92
APR.												
17...	0945	30	158	63	192	268	220	672	95	.8	--	--
25...	1500	--	--	--	--	--	--	559	78	--	1310	1.78
JULY												
25...	1400	20	--	--	--	--	--	475	68	--	1110	1.51

DATE	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)	CARBON DIOXIDE (CO2) (MG/L)	DISSOLVED BORON (B) (UG/L)
OCT.											
19...	--	682	--	--	--	8.4	21.1	2	9.7	--	--
DEC.											
23...	293	710	430	2.5	1810	8.0	--	--	--	5.5	810
JAN.											
11...	--	731	--	--	1850	8.1	18.3	23	8.4	--	--
APR.											
17...	--	655	440	3.3	1810	7.5	--	--	--	14	90
25...	--	686	--	--	1680	8.3	28.0	86	7.5	--	--
JULY											
25...	60.0	574	--	--	1550	8.2	29.5	30	8.7	--	--

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1570	1540	1550	---	---	---	---	---	---	---	---	---
2	1580	1520	1550	---	---	---	---	---	---	2050	1790	1920
3	1590	1510	1550	---	---	---	---	---	---	1990	1820	1910
4	1610	1500	1560	---	---	---	---	---	---	2030	1820	1920
5	1570	1510	1550	1630	1490	1560	---	---	---	2090	1810	1920
6	1610	1520	1570	1650	1480	1580	---	---	---	1930	1810	1860
7	1580	1480	1530	1600	1450	1510	---	---	---	1980	1780	1870
8	1550	1490	1520	1620	1570	1600	1640	1580	1610	2030	1840	1910
9	1570	1520	1540	1670	1620	1640	1630	1590	1610	1930	1770	1850
10	1560	1520	1540	1680	1650	1670	1640	1600	1620	1950	1830	1880
11	1600	1480	1530	1680	1360	1620	1670	1620	1640	---	---	---
12	1600	1500	1570	1370	1200	1250	1670	1640	1660	---	---	---
13	1580	1470	1530	1320	1280	1290	1710	1640	1670	---	---	---
14	1500	1320	1390	1350	1320	1340	1720	1670	1690	---	---	---
15	1470	1380	1420	1380	1350	1360	1730	1660	1690	---	---	---
16	1420	1360	1400	1440	1380	1400	1730	1660	1690	---	---	---
17	1460	1400	1430	1440	1390	1420	1740	1670	1700	---	---	---
18	1470	1390	1430	1460	1400	1420	1720	1660	1690	1810	1560	1670
19	---	---	---	1470	1400	1430	1750	1670	1710	1920	1710	1820
20	---	---	---	1460	1410	1440	1730	1670	1700	2110	1690	1860
21	---	---	---	1470	1430	1450	1740	1670	1700	2170	1770	1870
22	---	---	---	1490	1430	1460	---	---	---	2170	1840	1950
23	---	---	---	1460	1420	1430	---	---	---	2390	1830	2020
24	---	---	---	1460	1410	1440	---	---	---	2230	1800	1960
25	---	---	---	1530	1420	1480	---	---	---	2040	1800	1910
26	---	---	---	1600	1530	1570	---	---	---	2050	1810	1920
27	---	---	---	---	---	---	---	---	---	2070	1750	1890
28	---	---	---	---	---	---	---	---	---	2070	1840	1890
29	---	---	---	---	---	---	---	---	---	2020	1830	1890
30	---	---	---	---	---	---	---	---	---	2030	1800	1910
31	---	---	---	---	---	---	---	---	---	1960	1790	1880
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1900	1790	1840	---	---	---	1670	1580	1650	---	---	---
2	1960	1800	1860	---	---	---	1670	1630	1650	---	---	---
3	2020	1840	1930	---	---	---	1690	1650	1670	1750	1700	1720
4	2040	1720	1870	---	---	---	1690	1650	1670	1820	1710	1760
5	2200	1820	2000	---	---	---	1680	1630	1650	1760	1710	1730
6	2330	1960	2150	---	---	---	1680	1620	1650	1760	1710	1730
7	2250	1910	2040	---	---	---	1710	1660	1690	1780	1690	1750
8	2260	2000	2150	---	---	---	1770	1660	1720	1770	1660	1720
9	---	---	---	---	---	---	1770	1690	1730	1790	1660	1730
10	---	---	---	---	---	---	1750	1630	1690	1780	1640	1720
11	---	---	---	---	---	---	1680	1570	1630	1790	1580	1710
12	---	---	---	---	---	---	1690	1580	1640	1770	1550	1690
13	---	---	---	---	---	---	1730	1650	1690	1870	1620	1760
14	---	---	---	---	---	---	1750	1680	1720	1900	1680	1820
15	---	---	---	---	---	---	1840	1640	1750	1920	1650	1810
16	---	---	---	---	---	---	1840	1720	1780	1820	1610	1730
17	---	---	---	---	---	---	---	---	---	1790	1580	1700
18	---	---	---	1780	1750	1760	---	---	---	---	---	---
19	---	---	---	1930	1700	1860	---	---	---	---	---	---
20	---	---	---	1890	1810	1840	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	1630	1550	1600	---	---	---	---	---	---
25	---	---	---	1650	1560	1620	---	---	---	---	---	---
26	---	---	---	1640	1620	1630	---	---	---	---	---	---
27	---	---	---	1630	1600	1620	---	---	---	---	---	---
28	---	---	---	1660	1600	1640	---	---	---	1890	1730	1790
29	---	---	---	1660	1570	1630	---	---	---	1960	1830	1880
30	---	---	---	1660	1600	1630	---	---	---	2050	1860	1940
31	---	---	---	1670	1600	1650	---	---	---	2000	1830	1900
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1960	1820	1860	1620	1580	1600	1640	1500	1600	1660	1620	1640
2	1890	1730	1800	1610	1580	1600	1640	1510	1550	1630	1570	1600
3	1800	1710	1750	1620	1590	1600	1550	1470	1520	1600	1580	1590
4	1930	1700	1790	1610	1580	1600	1590	1530	1560	1610	1590	1600
5	1920	1660	1790	1640	1600	1610	1650	1530	1590	1620	1600	1610
6	1880	1700	1770	1660	1610	1630	1670	1570	1620	1630	1600	1620
7	1950	1780	1860	1690	1630	1660	1670	1570	1610	1630	1600	1610
8	1890	1720	1810	1770	1690	1710	1590	1490	1540	1660	1620	1640
9	1790	1660	1730	1950	1800	1870	1580	1520	1560	1690	1680	1690
10	1790	1640	1720	1990	1950	1970	1560	1500	1530	1740	1700	1720
11	1860	1760	1810	2010	1930	1960	1610	1550	1580	1730	1690	1710
12	1830	1080	1420	1940	1610	1690	1600	1520	1550	1740	1700	1720
13	1230	998	1100	1650	1520	1570	1590	1510	1550	1740	1710	1730
14	1590	1210	1340	1560	1490	1530	1590	1520	1560	1740	1700	1720
15	1580	1290	1410	1560	1500	1530	1540	1470	1510	1730	1700	1720
16	1460	1400	1420	1590	1520	1560	1520	1480	1500	1730	1700	1720
17	1550	1480	1510	1620	1540	1580	1550	1520	1530	1730	1700	1720
18	1580	1530	1550	1630	1510	1570	1550	1510	1530	1730	1700	1720
19	1600	1570	1580	1620	1500	1570	1570	1530	1550	1730	1680	1710
20	1600	1540	1560	1580	1530	1560	1570	1510	1540	1720	1660	1690
21	1560	1540	1550	1630	1490	1560	1570	1540	1560	1700	1640	1680
22	1580	1560	1570	1620	1500	1580	1600	1570	1580	1710	1650	1680
23	1620	1580	1600	1610	1480	1560	1600	1570	1590	1700	1670	1680
24	1620	1580	1600	1610	1490	1560	1600	1540	1570	1710	1640	1680
25	1660	1580	1620	1600	1480	1550	1620	1580	1600	1720	1650	1680
26	1660	1610	1630	1600	1460	1540	1620	1570	1600	1720	1660	1700
27	1630	1590	1610	1610	1460	1550	1630	1600	1610	1730	1670	1710
28	1650	1600	1620	1610	1470	1560	1640	1600	1620	1720	1680	1710
29	1640	1610	1630	1620	1480	1570	1650	1610	1630	1740	1680	1710
30	1640	1600	1620	1670	1510	1590	1650	1630	1640	1740	1680	1720
31	---	---	---	1660	1550	1610	1660	1620	1640	---	---	---
MONTH	1960	998	1620	2010	1460	1620	1670	1470	1570	1740	1570	1680

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	13.0	---	---	---	20.0	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	24.0	---
3	---	---	---	10.0	---	16.5	24.0	---	---	25.0	---	---
4	---	21.0	---	---	10.0	---	---	---	---	---	---	25.0
5	---	---	---	---	---	---	---	---	27.0	20.0	---	---
6	---	---	---	---	---	19.0	---	---	---	---	---	22.0
7	---	18.0	10.5	---	17.5	---	---	---	---	20.0	26.0	22.0
8	---	---	---	---	---	---	---	24.0	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	15.0	---	---	20.0	---	---	29.0	---	---
11	23.0	---	---	---	---	---	---	---	---	---	---	21.0
12	---	---	14.0	---	---	---	19.0	---	---	---	---	---
13	18.5	---	---	---	---	19.5	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	26.0	---
15	---	14.0	---	---	18.5	---	---	25.5	---	---	22.0	---
16	---	15.0	---	---	---	---	---	---	---	---	---	---
17	---	---	---	9.0	---	18.0	---	---	---	27.0	---	---
18	18.5	---	---	---	---	---	17.0	---	---	---	---	21.0
19	---	---	12.5	---	---	25.0	---	---	---	20.0	---	---
20	---	---	---	---	20.0	---	---	---	20.0	---	---	---
21	---	16.0	---	---	---	---	---	---	25.0	---	25.0	---
22	---	---	12.5	---	---	---	---	24.0	---	---	---	---
23	---	---	15.0	---	---	21.0	---	---	---	---	---	---
24	14.0	---	---	15.0	---	---	---	---	---	---	---	---
25	---	---	12.5	---	---	---	13.0	---	---	24.0	---	24.5
26	---	---	---	---	---	---	---	---	21.0	---	---	---
27	---	---	7.0	---	---	19.0	---	---	---	---	---	---
28	---	18.0	7.5	---	---	---	---	---	---	---	25.0	---
29	---	---	11.0	---	---	---	---	---	---	---	---	---
30	---	---	10.0	---	---	---	---	24.0	---	---	---	---
31	18.0	---	11.0	14.0	---	---	---	---	---	30.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	11	30	.89	15	40	1.6	14	80	3.0
2	11	25	.74	21	70	4.0	16	100	4.3
3	11	25	.74	21	65	3.7	17	110	5.0
4	11	20	.59	22	80	4.8	16	100	4.3
5	11	20	.59	23	85	5.3	13	70	2.5
6	12	20	.65	16	50	2.2	15	90	3.6
7	12	15	.49	14	46	1.7	11	55	1.6
8	12	15	.49	17	60	2.8	10	45	1.2
9	12	15	.49	17	60	2.8	20	75	4.1
10	12	14	.45	14	45	1.7	25	110	7.4
11	12	13	.42	11	25	.74	22	80	4.8
12	12	13	.42	21	130	7.4	20	75	4.1
13	12	13	.42	20	120	6.5	18	65	3.2
14	12	13	.42	19	115	5.9	16	55	2.4
15	14	20	.76	18	110	5.3	15	50	2.0
16	17	30	1.4	19	120	6.2	13	40	1.4
17	14	20	.76	24	145	9.4	13	40	1.4
18	16	25	1.1	27	200	15	17	120	5.5
19	20	30	1.6	26	180	13	14	100	3.8
20	21	30	1.7	23	150	9.3	16	110	4.8
21	20	25	1.4	23	150	9.3	14	95	3.6
22	21	30	1.7	25	170	11	120	2620	1030
23	20	25	1.4	26	180	13	107	961	279
24	24	35	2.3	23	150	9.3	365	5440	7580
25	23	35	2.2	20	130	7.0	197	3710	4620
26	17	30	1.4	17	110	5.0	199	3060	2640
27	14	25	.95	20	130	7.0	590	12200	36800
28	15	25	1.0	19	120	6.2	88	8120	2630
29	14	30	1.1	18	115	5.6	50	250	34
30	16	40	1.7	18	110	5.3	40	280	30
31	16	45	1.9	--	--	--	38	290	30
TOTAL	465	--	32.17	597	--	188.04	2129	--	55747.0

	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	47	480	61	31	420	35	21	225	13
2	44	410	49	30	400	32	22	230	14
3	43	400	46	33	500	45	22	230	14
4	38	370	38	32	450	39	22	230	14
5	35	330	31	35	570	54	21	225	13
6	38	370	38	39	700	74	21	225	13
7	47	480	61	34	540	50	21	225	13
8	40	400	43	34	520	48	20	250	14
9	41	410	45	27	300	22	19	300	15
10	34	330	30	33	370	33	18	350	17
11	35	350	33	35	390	37	17	400	18
12	34	330	30	25	250	17	16	450	19
13	34	320	29	25	150	10	15	500	20
14	37	360	36	30	200	16	15	500	20
15	30	280	23	39	210	22	14	475	18
16	23	200	12	35	200	19	14	475	18
17	33	310	28	34	240	22	14	465	18
18	38	370	38	35	250	24	14	300	11
19	30	280	23	33	235	21	14	150	5.7
20	31	290	24	33	235	21	15	150	6.1
21	28	260	20	33	235	21	16	160	6.9
22	32	300	26	31	230	19	17	180	8.3
23	28	260	20	33	235	21	21	210	12
24	30	280	23	31	230	19	24	250	16
25	30	270	22	25	230	16	24	250	16
26	34	320	29	24	230	15	23	230	14
27	30	270	22	22	225	13	23	220	14
28	28	250	19	22	225	13	20	200	11
29	32	370	32	21	225	13	19	190	9.7
30	37	490	49	--	--	--	16	160	6.9
31	31	450	38	--	--	--	13	120	4.2
TOTAL	1072	--	1018	894	--	791	571	--	412.8

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	13	110	3.9	11	300	8.9	6.6	160	2.9
2	14	120	4.5	10	260	7.0	6.6	160	2.9
3	12	95	3.1	9.6	240	6.2	8.3	190	4.3
4	12	95	3.1	10	260	7.0	8.3	180	4.0
5	13	150	5.3	13	390	14	6.6	155	2.8
6	14	230	8.7	13	380	13	6.6	150	2.7
7	11	160	4.8	12	370	12	4.0	60	.65
8	10	140	3.8	12	360	12	4.4	65	.77
9	9.0	120	2.9	12	350	11	7.9	90	1.9
10	12	185	6.0	11	300	8.9	13	210	7.4
11	16	280	12	11	300	8.9	9.0	90	2.2
12	15	250	10	11	290	8.6	10	130	3.5
13	12	185	6.0	9.6	240	6.2	13	210	7.4
14	10	140	3.8	9.6	230	6.0	13	200	7.0
15	10	120	3.2	9.6	220	5.7	11	110	3.3
16	6.2	70	1.2	8.3	200	4.5	11	100	3.0
17	26	290	20	12	270	8.7	9.0	90	2.2
18	28	330	25	14	320	12	9.0	85	2.1
19	23	310	19	19	480	25	7.9	75	1.6
20	22	300	18	20	540	29	14	100	3.8
21	23	490	30	14	300	11	19	120	6.2
22	20	460	25	12	245	7.9	20	130	7.0
23	18	440	21	11	200	5.9	20	120	6.5
24	19	420	22	12	240	7.8	19	110	5.6
25	17	400	18	12	240	7.8	16	80	3.5
26	14	300	11	11	200	5.9	13	55	1.9
27	14	280	11	12	240	7.8	12	45	1.5
28	15	320	13	13	280	9.8	9.6	35	.91
29	17	400	18	10	210	5.7	7.4	30	.60
30	12	330	11	7.9	180	3.8	9.6	50	1.3
31	--	--	--	7.4	170	3.4	--	--	--
TOTAL	457.2	--	344.3	360.0	--	291.4	324.8	--	101.43

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12	90	2.9	9.6	30	.78	11	30	.89
2	12	90	2.9	9.0	30	.73	12	35	1.1
3	12	80	2.6	13	90	3.2	11	30	.89
4	15	150	6.1	13	85	3.0	13	40	1.4
5	12	110	3.6	12	80	2.6	14	48	1.8
6	7.9	70	1.5	9.0	40	.97	13	49	1.7
7	6.6	50	.89	7.4	25	.50	12	45	1.5
8	7.9	70	1.5	12	70	2.3	13	45	1.6
9	4.0	40	.43	9.0	45	1.1	13	45	1.6
10	3.2	200	1.7	10	50	1.4	14	50	1.9
11	3.5	150	1.4	7.4	25	.50	14	50	1.9
12	3.5	100	.95	8.3	30	.67	14	45	1.7
13	4.9	80	1.1	12	45	1.5	12	35	1.1
14	7.0	60	1.1	9.0	25	.61	11	30	.89
15	9.0	40	.97	13	50	1.8	12	35	1.1
16	9.0	30	.73	16	60	2.6	12	35	1.1
17	10	30	.81	16	50	2.2	10	30	.81
18	14	60	2.3	18	40	1.9	10	30	.81
19	17	110	5.0	17	30	1.4	12	35	1.1
20	20	120	6.5	19	30	1.5	13	40	1.4
21	21	130	7.4	18	22	1.1	11	35	1.0
22	15	90	3.6	16	21	.91	9.0	25	.61
23	20	120	6.5	14	20	.76	8.3	20	.45
24	16	100	4.3	14	20	.76	7.9	15	.32
25	16	100	4.3	15	21	.85	8.3	16	.36
26	16	90	3.9	13	21	.74	7.4	15	.30
27	14	80	3.0	11	20	.59	7.0	15	.28
28	14	75	2.8	9.6	20	.52	6.6	15	.27
29	11	40	1.2	10	25	.68	7.0	16	.30
30	9.6	30	.78	12	30	.97	8.3	20	.45
31	7.9	20	.43	12	30	.97	--	--	--
TOTAL	351.0	--	83.19	384.3	--	40.11	326.8	--	30.63

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 7932.1
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 59080.07

11108500 SANTA CLARA RIVER AT LOS ANGELES-VENTURA COUNTY LINE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.											
22...	0715	10.5	61	10600	1750	39	51	69	90	93	95
22...	1640	13.0	201	2870	1560	45	60	76	86	92	94
27...	0810	7.0	963	24300	63200	35	39	52	74	94	97
27...	1120	6.0	3190	20700	178000	31	38	44	65	81	88
27...	1240	7.0	1470	21900	86900	24	33	44	58	72	--
FEB.											
15...	1705	18.5	46	215	27	--	--	--	--	--	59
MAR.											
17...	1030	18.0	14	467	18	31	41	47	55	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
DEC.										
22...	--	96	--	98	--	100	--	--	--	--
22...	--	96	--	100	--	--	--	--	--	--
27...	--	98	--	100	--	--	--	--	--	--
27...	--	91	--	96	--	97	--	100	--	--
27...	79	--	86	--	96	--	99	--	100	--
FEB.										
15...	--	63	--	97	--	100	--	--	--	--
MAR.										
17...	65	--	68	--	75	--	87	--	95	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 mile north of Frenchmans Flat, and 12.5 miles north of Castaic.

PERIOD OF RECORD.--Specific conductance: March to September 1972.

EXTREMES.--March to September 1972:
Specific conductance: Maximum, 1,880 micromhos Sept. 29; minimum, 447 micromhos June 28.

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.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), MARCH TO SEPTEMBER 1972

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	633	621	624	841	745	805
2	---	---	---	---	---	---	759	612	666	898	823	867
3	---	---	---	---	---	---	867	762	818	987	849	903
4	---	---	---	---	---	---	954	843	878	839	708	776
5	---	---	---	---	---	---	1080	897	915	703	559	602
6	---	---	---	---	---	---	954	900	925	740	617	662
7	---	---	---	---	---	---	900	834	854	865	745	799
8	---	---	---	---	---	---	918	849	887	902	866	881
9	---	---	---	---	---	---	936	894	912	867	561	642
10	---	---	---	---	---	---	1010	873	915	628	526	558
11	---	---	---	---	---	---	957	810	896	590	512	546
12	---	---	---	---	---	---	804	630	754	568	499	535
13	---	---	---	---	---	---	723	672	692	548	482	517
14	---	---	---	---	---	---	762	657	697	534	483	513
15	---	---	---	---	---	---	744	693	715	532	502	521
16	---	---	---	---	---	---	762	696	720	549	474	514
17	---	---	---	---	---	---	753	696	718	564	477	518
18	---	---	---	---	---	---	704	641	667	563	533	548
19	---	---	---	---	---	---	665	620	639	554	533	545
20	---	---	---	---	---	---	646	610	627	556	544	552
21	---	---	---	---	---	---	670	601	616	559	532	549
22	---	---	---	639	618	625	609	594	601	555	522	539
23	---	---	---	633	609	623	597	582	592	557	509	535
24	---	---	---	627	615	620	587	569	580	632	557	577
25	---	---	---	630	618	624	584	563	573	772	634	706
26	---	---	---	630	621	624	583	568	576	838	772	795
27	---	---	---	621	609	616	580	562	571	846	795	824
28	---	---	---	633	609	613	567	558	563	801	597	696
29	---	---	---	633	612	625	615	561	590	620	539	576
30	---	---	---	618	606	610	746	602	677	589	541	571
31	---	---	---	636	615	624	---	---	---	577	529	563
MONTH	---	---	---	---	---	---	1080	558	715	987	474	637

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	582	543	567	552	480	506	1200	1150	1180	1010	948	968
2	654	540	578	481	448	462	1170	933	1050	1000	948	967
3	738	525	605	479	461	468	1060	878	910	978	942	959
4	1470	786	1270	543	477	512	1110	910	976	975	951	962
5	1530	1330	1420	566	539	548	917	857	879	1020	957	981
6	1520	1350	1430	609	555	577	910	856	882	1020	966	993
7	1500	528	1160	637	598	615	930	891	902	1030	968	995
8	792	537	714	659	623	640	902	674	804	1030	988	1000
9	897	792	857	666	642	652	678	636	649	1030	996	1010
10	864	789	829	679	643	659	641	617	633	1020	994	1010
11	858	486	626	695	653	670	973	634	716	1030	981	1000
12	486	453	471	684	651	664	645	603	618	1020	959	993
13	520	454	474	670	643	654	610	589	600	1070	931	984
14	545	518	532	681	648	661	897	600	689	1040	849	916
15	534	504	524	694	664	676	861	759	813	1060	881	963
16	634	502	553	689	668	677	834	774	807	903	846	874
17	789	639	720	693	669	678	870	777	820	890	848	871
18	856	781	810	691	667	677	891	825	849	1110	868	952
19	887	833	853	692	668	677	870	807	826	1180	1110	1140
20	891	861	874	687	672	680	834	792	815	1260	1150	1200
21	889	751	778	701	674	685	849	795	816	1340	1200	1260
22	773	740	757	708	675	691	846	792	819	1310	1170	1260
23	738	654	686	715	679	698	855	798	823	1410	1300	1350
24	682	493	548	732	690	711	888	807	841	1390	1320	1370
25	506	467	481	760	706	734	885	840	862	1410	1330	1370
26	478	454	468	794	743	767	858	819	831	1410	1240	1350
27	479	452	467	894	786	824	885	816	839	1860	1390	1640
28	477	447	465	974	890	933	966	879	907	1850	1780	1810
29	664	466	532	1130	966	1020	1050	921	974	1880	1620	1800
30	590	452	513	1190	1140	1150	1020	945	976	1820	1570	1690
31	---	---	---	1180	1160	1180	1040	948	985	---	---	---
MONTH	1530	447	719	1190	448	701	1200	589	841	1880	846	1150

11109600 PIRU CREEK ABOVE LAKE PIRU, CALIF.

LOCATION.--Lat 34°31'40", long 118°45'21", in SW¼SE¼SW¼ sec.10, T.5 N., R.18 W., Ventura County, at gaging station on right bank at Blue Point, 1.0 mile downstream from Agua Blanca Creek, 4.6 miles upstream from Santa Felecia Dam, and 8.0 miles northeast of Piru.

DRAINAGE AREA.--372 sq mi.

PERIOD OF RECORD.--Specific conductance: March 1971 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum recorded, 1,320 micromhos July 22, 23, Sept. 30; minimum recorded, 590 micromhos June 4.

Period of record:
Specific conductance (1971-72): Maximum recorded, 1,320 micromhos July 22, 23, Sept. 30, 1972; minimum recorded, 590 micromhos June 4, 1972.

REMARKS.--Periods of missing record due to recorder malfunction Nov. 10-29, Dec. 22 to Jan. 10, during low flow periods, the stream meandering from probe.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1300	1240	1260	---	---	---	1120	1090	1110	---	---	---
2	1290	1250	1260	1170	1130	1150	1110	1090	1100	---	---	---
3	1290	1240	1260	1160	1120	1140	1110	1100	1100	---	---	---
4	1280	1240	1250	1140	1100	1110	1120	1100	1110	---	---	---
5	1290	1250	1270	1110	1080	1100	1150	1120	1140	---	---	---
6	1300	1250	1270	1090	1070	1080	1140	1120	1130	---	---	---
7	1300	1260	1270	1260	1060	1140	1150	1130	1140	---	---	---
8	1300	1260	1270	1230	1200	1210	1160	1140	1150	---	---	---
9	1310	1270	1290	1200	1170	1180	1160	1150	1160	---	---	---
10	1310	1270	1290	---	---	---	1180	1150	1160	---	---	---
11	1310	1280	1290	---	---	---	1170	1150	1160	1100	1070	1080
12	1310	1260	1280	---	---	---	1180	1170	1170	1090	1070	1080
13	1310	1290	1290	---	---	---	1190	1170	1180	1090	1070	1080
14	1310	1290	1300	---	---	---	1220	1170	1200	1200	1070	1150
15	---	---	---	---	---	---	1190	1170	1180	1220	1170	1190
16	---	---	---	---	---	---	1200	1160	1180	1190	1170	1180
17	---	---	---	---	---	---	1210	1180	1200	1290	1180	1230
18	---	---	---	---	---	---	1210	1180	1200	1120	1090	1100
19	---	---	---	---	---	---	1190	1160	1170	1080	993	1030
20	---	---	---	---	---	---	1180	1160	1170	1100	1040	1080
21	---	---	---	---	---	---	1190	1130	1170	1110	1070	1090
22	---	---	---	---	---	---	---	---	---	1110	1050	1090
23	---	---	---	---	---	---	---	---	---	1140	1110	1130
24	---	---	---	---	---	---	---	---	---	1150	1120	1130
25	---	---	---	---	---	---	---	---	---	1150	1100	1130
26	---	---	---	---	---	---	---	---	---	1170	1150	1160
27	---	---	---	---	---	---	---	---	---	1170	1140	1150
28	---	---	---	---	---	---	---	---	---	1160	1140	1150
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	1080	1060	1070	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11109600 PIRU CREEK ABOVE LAKE PIRU, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1030	966	1010	967	927	951	710	685	699	960	934	946
2	1020	976	999	927	900	916	741	680	694	987	937	954
3	1060	1030	1050	---	---	---	928	754	864	993	948	962
4	1040	1000	1020	---	---	---	964	921	946	987	960	967
5	1080	1020	1050	931	907	920	1000	959	981	972	957	966
6	1100	967	1050	953	933	943	1020	996	1010	963	943	953
7	974	927	952	967	944	955	1040	1010	1030	966	943	950
8	1040	967	1000	981	675	945	1020	1000	1010	963	943	954
9	980	933	953	938	650	820	1030	1010	1020	981	954	968
10	995	959	976	963	808	803	1030	1010	1020	1010	963	977
11	981	923	955	986	954	972	1060	1020	1040	1010	954	970
12	943	923	933	961	937	949	1060	1040	1050	999	948	964
13	966	925	945	948	923	934	1020	952	985	987	948	963
14	954	934	944	942	923	930	990	976	984	984	943	957
15	963	934	948	944	928	938	1010	983	999	975	946	956
16	963	931	945	984	887	945	1020	1000	1010	954	937	946
17	1010	948	982	964	706	880	1020	996	1010	953	933	944
18	1010	987	999	711	679	690	1010	978	994	958	929	946
19	1080	816	1020	715	674	688	1000	986	992	957	912	946
20	1020	990	1000	730	663	692	1000	979	991	966	933	947
21	1000	750	977	688	650	667	994	976	987	977	953	965
22	--	--	--	673	649	660	1010	972	986	982	964	973
23	943	917	931	662	638	650	986	965	974	984	963	975
24	---	---	---	645	634	640	976	955	965	977	950	963
25	---	---	---	662	651	655	975	951	960	970	949	959
26	---	---	---	674	657	666	968	947	956	966	951	960
27	969	946	957	683	665	674	973	940	954	980	956	966
28	999	963	980	691	675	681	961	937	948	998	959	977
29	999	960	987	717	692	707	978	933	947	1020	970	993
30	---	---	---	714	695	703	1010	935	951	1180	978	1080
31	---	---	---	711	695	705	---	---	---	1130	1000	1060
MONTH	1100	750	977	986	634	803	1060	680	965	1180	912	968

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1160	976	1030	988	961	979	---	---	---	1250	1220	1230
2	993	960	980	966	945	957	1240	1190	1210	1260	1220	1230
3	1090	615	972	1010	935	975	1230	1200	1210	1260	1220	1240
4	1150	590	956	1080	1050	1060	1240	1190	1210	1260	1220	1240
5	1100	1060	1090	1090	1040	1060	1270	1190	1230	1260	1230	1240
6	1130	1090	1110	1150	1050	1100	1260	1200	1220	1270	1230	1240
7	1150	1110	1130	1180	1140	1150	1260	1180	1220	1270	1230	1250
8	1160	1050	1080	1210	1150	1180	1240	1200	1220	1270	1240	1250
9	1110	1060	1090	1220	1160	1190	1250	1190	1220	1270	1240	1260
10	1040	949	982	1230	1180	1190	1260	1180	1210	1270	1240	1250
11	1040	995	1030	1270	1190	1220	1210	1150	1180	1270	1230	1260
12	1040	895	965	1300	1220	1250	1190	1140	1160	1280	1240	1260
13	968	875	915	1300	1230	1250	1140	1080	1110	1280	1250	1260
14	970	903	935	1310	1230	1270	1090	1060	1080	1280	1250	1270
15	1110	987	1020	1310	1230	1260	1150	1060	1100	1290	1250	1260
16	1170	1110	1130	1300	1220	1260	1190	1130	1160	1300	1260	1270
17	1140	1030	1080	1290	1220	1250	1210	1160	1180	1280	1220	1250
18	1130	1030	1090	1280	1220	1250	1220	1170	1190	1240	1220	1230
19	1100	1020	1070	1260	1210	1240	1220	1190	1200	1250	1210	1230
20	1090	1030	1070	1280	1200	1260	1230	1180	1200	1270	1240	1250
21	1110	1030	1080	1300	1240	1270	1240	1190	1210	1290	1250	1270
22	1110	1050	1080	1320	1230	1280	1270	1200	1230	1300	1260	1280
23	1080	1050	1070	1320	1230	1270	1270	1210	1240	1290	1260	1270
24	1080	1030	1060	1310	1230	1260	1240	1200	1220	1290	1270	1280
25	1080	1020	1050	1290	1220	1260	1230	1210	1220	1290	1260	1280
26	1060	1030	1040	1280	1230	1240	1240	1210	1220	1300	1270	1280
27	1050	1020	1040	1280	1200	1240	1240	1210	1220	1310	1280	1290
28	1030	1010	1020	1270	1200	1230	1240	1200	1230	1310	1270	1290
29	1040	1010	1020	1260	1190	1220	1250	1210	1230	1310	1270	1290
30	1030	989	1010	1270	1180	1220	1250	1210	1230	1320	1280	1300
31	---	---	---	1260	1170	1210	1270	1220	1240	---	---	---
MONTH	1170	590	1040	1320	935	1200	1270	1060	1200	1320	1210	1260

11110000 PIRU CREEK NEAR PIRU, CALIF.

LOCATION.--Lat 34°25'30", long 118°45'40", in southern part of Temescal Grant, Ventura County, at gaging station on right bank, 1.8 miles northeast of Piru, and 2 miles upstream from mouth.

DRAINAGE AREA.--437 sq mi.

PERIOD OF RECORD.--Specific conductance: October 1969 to September 1972.
Water temperatures: October 1969 to September 1970.

EXTREMES.--1971-72:
Specific conductance: Maximum, 2,750 micromhos Feb. 3; minimum, 915 micromhos Sept. 19.

Period of record:
Specific conductance: Maximum, 2,750 micromhos Feb. 3, 1972; minimum recorded, 852 micromhos Aug. 16, 1971.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1630	1170	1360	---	---	---	1890	1370	1600	2490	1900	2160
2	1520	1180	1340	---	---	---	1850	1400	1580	2290	1650	1930
3	1660	1170	1310	---	---	---	1870	1400	1590	1930	1600	1740
4	1520	1190	1290	---	---	---	1830	1360	1570	2090	1680	1820
5	1480	1170	1300	---	---	---	1880	1380	1560	2070	1630	1820
6	1400	1180	1280	---	---	---	1770	1270	1520	2070	1630	1850
7	1430	1170	1270	---	---	---	1870	1330	1570	2230	1650	1900
8	1670	1140	1280	---	---	---	1780	1330	1540	2170	1710	1930
9	1450	1110	1240	---	---	---	1940	1350	1560	2060	1670	1870
10	1390	1110	1260	---	---	---	1740	1330	1500	2220	1680	1940
11	1540	1130	1250	2170	1680	1940	1630	1260	1430	2310	1750	1980
12	1550	1130	1250	2580	1820	2210	1570	1270	1420	2370	1720	2000
13	1390	1160	1250	2680	1640	1980	1630	1310	1470	2140	1700	1930
14	1390	1140	1260	2400	1690	2000	1630	1320	1480	2340	1790	2010
15	1490	1220	1330	2440	1680	2030	1610	1340	1490	2270	1800	2080
16	1550	1320	1390	2300	1530	1890	1810	1400	1560	2320	1790	2080
17	1560	1300	1390	2400	1630	2000	1750	1410	1560	2300	1790	2060
18	1670	1290	1400	2290	1620	1920	1870	1430	1610	2530	1840	2080
19	1650	1270	1400	2470	1730	1980	1750	1480	1630	2150	1900	2060
20	1710	1260	1400	2430	1640	1980	1860	1440	1610	2300	1900	2100
21	1420	1220	1310	2360	1510	1910	1830	1530	1610	2260	1880	2100
22	1510	1200	1320	2160	1480	1800	2010	1590	1890	2310	1830	2070
23	1510	1210	1300	2260	1430	1690	2300	1890	2000	2340	1840	2100
24	1740	1290	1450	2360	1270	1690	2170	1830	1930	2260	1870	2070
25	1550	1310	1430	1990	1350	1680	1940	1720	1810	2130	1890	2020
26	1470	1250	1360	2210	1370	1750	1940	1670	1800	2170	1850	2040
27	1450	1260	1290	2240	1250	1600	2250	1830	1930	2250	2120	2190
28	1490	1270	1270	2080	1380	1610	2160	1810	1940	2440	2100	2270
29	1340	1190	1280	1660	1320	1460	2120	1770	1930	2540	2180	2420
30	1440	1260	1350	1800	1340	1580	2290	1790	2030	2550	2180	2420
31	---	---	---	---	---	---	2290	1840	2020	2630	2130	2430
MONTH	1740	1110	1320	---	---	---	2300	1260	1670	2630	1600	2050

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2580	2160	2420	1700	1340	1540	1600	1210	1440	1650	1120	1370
2	2650	2240	2500	1590	1240	1450	1570	1150	1390	1640	1100	1400
3	2750	2320	2540	1560	1260	1440	1570	1190	1380	1650	1100	1380
4	2620	2200	2440	1500	1200	1390	1540	1140	1350	---	---	---
5	2530	2460	2500	1520	1220	1400	1510	1130	1330	1700	1500	1620
6	2590	2150	2440	1540	1210	1400	1500	1100	1340	1540	1420	1480
7	2720	2180	2500	1500	1320	1440	1510	1110	1330	1530	1400	1460
8	2700	2360	2550	1520	1250	1420	1550	1080	1350	1490	1400	1450
9	2680	2050	2400	1550	1260	1430	1530	1120	1340	1700	1440	1540
10	2640	2130	2410	1550	1220	1420	1560	1180	1380	1630	1330	1470
11	2740	2200	2580	1560	1250	1430	1590	1430	1520	1480	1370	1420
12	---	---	---	1580	1250	1440	1630	1320	1480	1460	1300	1390
13	2640	2060	2380	1550	1300	1450	1630	1190	1450	1460	1350	1400
14	2470	1990	2240	1560	1200	1410	1730	1170	1460	1450	1350	1410
15	2160	1660	1900	1560	1170	1400	1540	1110	1360	1440	1360	1400
16	1810	1470	1640	1670	1220	1470	1590	1090	1360	1460	1390	1430
17	1600	1350	1490	1740	1320	1550	1600	1130	1370	1540	1430	1480
18	1490	1310	1420	1660	1350	1520	1600	1320	1450	1600	1430	1510
19	1450	1290	1390	1730	1330	1540	1720	1250	1520	1810	1470	1530
20	1430	1250	1360	1710	1350	1530	1840	1220	1530	1620	1490	1570
21	1400	1260	1340	1670	1310	1530	1800	1190	1490	1610	1440	1540
22	1380	1210	1320	1650	1350	1510	1750	1200	1450	1580	1410	1490
23	1380	1230	1310	1730	1320	1540	1710	1180	1440	1500	1410	1460
24	1370	1230	1310	1670	1260	1510	1720	1200	1440	1530	1450	1470
25	1350	1200	1290	1680	1230	1470	1720	1140	1450	1520	1430	1480
26	1340	1210	1290	1600	1270	1480	1720	1170	1460	1520	1450	1490
27	1340	1190	1280	1650	1280	1500	1970	1120	1460	1510	1450	1480
28	1570	1260	1360	1710	1300	1530	1820	1170	1450	1540	1410	1490
29	1700	1380	1570	1710	1300	1530	1710	1140	1420	1410	1390	1400
30	---	---	---	1670	1200	1470	1720	1120	1410	---	---	---
31	---	---	---	1650	1220	1440	---	---	---	---	---	---
MONTH	2750	1190	1900	1740	1170	1470	1970	1080	1420	1810	1100	1460

11110000 PIRU CREEK NEAR PIRU, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1550	1440	1490	1740	1470	1540	1070	1010	1040
2	---	---	---	1540	1440	1500	1900	1260	1470	1040	1000	1020
3	1470	1340	1420	1600	1470	1510	1280	1210	1240	1000	963	985
4	1480	1350	1420	1750	1510	1560	1260	1200	1230	1000	963	979
5	1530	1370	1450	1740	1480	1550	1360	1210	1240	1080	978	1000
6	1540	1350	1450	1580	1460	1520	1280	1200	1220	1020	975	994
7	1560	1390	1450	1570	1430	1510	1320	1190	1220	1000	959	985
8	1550	1460	1510	1570	1440	1520	1330	1180	1200	997	932	966
9	1570	1470	1520	1570	1430	1500	1320	1180	1210	1010	970	989
10	1570	1440	1510	1560	1440	1510	1310	1170	1190	1010	985	995
11	1580	1430	1520	1580	1390	1490	1190	1130	1170	1010	985	997
12	1570	1420	1510	1470	1350	1420	1190	1150	1170	1030	983	998
13	1570	1430	1490	1470	1360	1420	1180	1130	1160	1100	966	1010
14	1570	1450	1500	1510	1390	1430	1190	1140	1170	---	---	---
15	1560	1460	1510	1540	1420	1490	1190	1120	1160	---	---	---
16	1560	1450	1520	1560	1440	1510	1200	1120	1150	985	951	965
17	1580	1430	1500	1570	1440	1510	1160	1100	1140	955	931	940
18	1580	1440	1520	1570	1470	1520	1150	1120	1140	952	935	951
19	1570	1440	1510	1570	1440	1520	1160	1100	1140	989	915	962
20	1570	1460	1520	1730	1490	1580	1140	1090	1120	967	943	962
21	1580	1440	1520	2100	1570	1850	1190	1080	1120	1020	944	965
22	1620	1510	1570	2110	1660	1870	1260	1060	1170	1040	948	976
23	1580	1480	1540	1740	1530	1620	1230	1090	1120	982	945	964
24	1600	1480	1530	1610	1480	1560	1110	1080	1090	1080	956	977
25	1560	1470	1530	1590	1480	1540	1110	1050	1080	---	---	---
26	1580	1480	1530	1580	1440	1530	1080	1050	1070	---	---	---
27	1570	1470	1520	1570	1470	1520	1100	1060	1080	---	---	---
28	1580	1450	1520	1590	1400	1510	1100	1060	1080	---	---	---
29	1560	1460	1520	1600	1440	1510	1120	1040	1070	---	---	---
30	1550	1450	1510	1600	1420	1520	1090	1040	1070	---	---	---
31	---	---	---	1600	1410	1500	1110	1040	1060	---	---	---
MONTH	1620	1340	1500	2110	1350	1530	1900	1040	1170	---	---	---

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 miles upstream from Tule Creek, 5 miles upstream from Cold Springs damsite, and 5 miles northeast of Wheeler Springs.

DRAINAGE AREA.--49.5 sq mi.

PERIOD OF RECORD.--Water temperatures: February 1962 to September 1972.
Sediment records: Water years 1956 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 27.5°C July 31; minimum, 1.0°C Dec. 27, Jan. 5, 31, Feb. 3.

Period of record:
Water temperatures: Maximum, 29.0°C Aug. 11, 1964; minimum, freezing point on several days in 1970 and 1971.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	4.5	9.0	5.5	8.5	6.0	4.5	3.0	5.0	2.0	9.0	5.0
2	16.5	3.5	10.0	6.5	8.0	6.0	5.0	3.0	5.0	2.0	9.5	6.0
3	18.5	5.5	10.5	6.5	8.0	6.0	4.5	3.0	4.5	1.0	10.5	6.5
4	19.5	7.0	10.5	8.0	8.0	4.5	3.5	1.5	6.0	3.0	11.5	8.0
5	20.5	8.0	12.0	9.5	8.0	5.0	4.0	1.0	6.5	5.5	11.5	7.0
6	21.0	8.5	11.0	8.5	8.5	7.0	5.0	2.0	8.0	5.5	12.0	8.0
7	20.5	8.0	11.0	8.5	8.0	3.5	5.0	3.0	7.0	4.0	12.0	8.0
8	21.0	8.5	11.0	8.5	5.0	3.5	4.5	2.0	6.5	4.0	11.0	6.0
9	21.0	10.0	10.5	8.5	6.0	4.5	4.5	2.0	8.5	5.5	11.5	6.5
10	21.5	10.0	11.0	8.0	6.5	5.5	5.0	2.5	8.0	4.5	12.0	7.0
11	19.5	9.5	11.5	9.5	6.0	5.0	5.0	3.0	7.0	4.0	12.0	8.5
12	19.5	9.5	12.0	11.0	6.5	4.0	6.5	4.0	7.0	4.0	12.0	8.5
13	19.5	9.5	11.0	9.0	7.0	4.5	7.0	4.5	7.0	4.0	13.0	9.5
14	16.0	10.0	10.0	8.0	6.0	4.0	6.5	4.0	8.5	5.5	13.0	8.5
15	14.0	10.5	9.0	6.5	6.0	5.0	6.0	3.0	8.5	5.5	12.0	8.0
16	9.5	7.0	8.5	6.0	5.0	3.0	5.0	2.5	8.5	5.0	13.0	8.0
17	10.0	5.5	8.0	6.0	5.5	4.0	5.5	3.0	9.0	5.0	13.0	8.5
18	9.5	4.5	8.0	6.0	6.5	5.5	6.0	3.5	9.0	6.0	13.0	9.5
19	10.0	4.5	8.0	5.0	6.0	5.0	6.0	3.0	8.5	5.0	13.0	8.0
20	10.5	5.5	8.0	6.0	5.5	4.5	6.0	3.5	9.0	5.0	13.0	8.0
21	10.5	5.5	8.0	5.5	6.5	5.0	6.0	4.0	9.0	6.0	11.5	6.5
22	9.5	4.5	8.0	6.0	8.0	5.5	6.5	4.5	9.5	6.0	10.5	6.0
23	10.0	5.5	9.0	6.5	9.0	8.0	6.5	4.0	8.5	5.5	11.0	5.5
24	8.0	6.0	8.5	6.0	9.0	8.0	6.0	3.0	9.0	5.5	10.5	5.5
25	8.5	5.5	9.5	8.0	8.0	6.0	6.0	3.5	9.5	5.5	11.5	6.0
26	11.5	5.5	9.0	7.0	5.5	4.0	5.0	3.0	10.0	5.5	10.0	5.0
27	13.5	10.5	10.0	8.5	5.0	1.0	4.5	3.0	10.0	5.0	8.5	4.0
28	11.5	9.0	10.5	8.0	5.5	3.0	5.5	3.5	10.0	5.5	9.0	3.5
29	8.0	5.0	10.5	9.5	5.5	3.5	5.5	3.0	9.5	6.5	8.0	4.5
30	8.0	4.0	9.5	8.5	5.0	3.5	5.0	2.0	---	---	10.0	4.5
31	9.5	6.0	---	---	4.5	2.5	4.0	1.0	---	---	10.5	5.0
MONTH	21.5	3.5	12.0	5.0	9.0	1.0	7.0	1.0	10.0	1.0	13.0	3.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	6.5	14.5	7.0	19.5	13.5	20.5	13.5	25.5	19.5	24.5	12.5
2	11.5	6.5	14.5	8.0	19.5	13.5	20.5	13.0	25.5	13.5	22.5	11.5
3	12.0	6.5	14.5	8.5	20.0	14.0	20.0	11.5	23.5	12.0	19.5	11.0
4	12.0	8.0	15.5	9.0	20.0	13.5	19.0	10.5	23.0	13.0	19.0	14.0
5	11.0	7.0	15.0	9.0	19.5	14.0	19.0	11.5	21.5	10.5	17.0	13.0
6	12.0	6.5	14.5	9.5	20.5	13.0	18.5	11.0	25.0	15.0	21.5	12.0
7	12.0	6.5	14.5	8.0	19.0	14.0	19.0	11.5	25.0	15.5	23.0	12.0
8	12.0	6.0	15.0	8.5	19.0	13.5	18.0	11.5	23.0	14.5	24.0	14.0
9	11.5	5.5	15.0	8.0	18.5	14.0	20.0	10.5	24.5	13.5	24.0	11.5
10	10.5	8.5	15.0	8.0	18.5	12.0	19.5	10.5	24.0	14.0	16.0	14.0
11	9.5	8.0	16.0	9.0	16.0	10.0	19.5	10.5	24.0	14.5	20.0	11.0
12	10.0	5.5	16.5	10.0	18.5	10.5	20.0	10.5	21.5	14.0	21.0	10.0
13	10.0	5.5	17.0	10.5	20.0	13.0	21.5	11.5	22.0	13.0	21.0	9.0
14	10.0	4.5	17.0	10.5	19.5	12.0	21.5	13.5	21.5	11.0	21.0	8.5
15	11.0	4.5	18.0	11.0	19.0	13.5	22.0	13.5	21.5	11.0	20.0	8.5
16	11.0	5.0	16.0	9.5	20.5	13.5	20.5	13.0	21.5	10.5	21.0	8.5
17	12.0	6.5	16.5	10.0	20.0	13.5	19.5	10.5	21.0	10.0	20.0	9.0
18	10.0	7.0	11.5	9.5	19.5	12.0	20.5	10.0	21.0	10.0	18.5	11.0
19	10.5	5.5	10.0	8.0	19.0	11.5	19.0	10.5	21.0	11.0	20.0	10.5
20	11.0	5.5	10.0	6.0	18.0	13.0	19.5	12.0	21.0	9.5	21.5	11.0
21	12.0	6.0	13.5	6.0	19.5	13.0	20.0	10.0	23.5	12.0	20.5	10.0
22	13.5	7.0	15.0	8.0	18.0	13.5	21.0	11.5	25.0	12.0	18.5	11.5
23	14.0	8.0	15.5	9.0	19.0	11.5	22.0	11.0	25.0	11.5	21.5	12.0
24	13.5	6.5	16.5	9.0	19.0	11.5	22.0	11.0	25.0	11.5	16.0	11.5
25	13.5	7.0	16.5	10.5	18.5	11.5	23.0	12.0	21.0	13.0	19.0	10.0
26	13.5	6.5	18.0	10.5	18.5	11.0	24.5	13.5	21.5	13.0	18.5	9.5
27	13.5	6.5	15.0	10.5	19.0	11.0	25.5	15.0	24.0	12.0	19.0	11.0
28	13.5	6.5	18.5	11.0	20.0	12.0	26.0	14.0	21.0	14.0	20.5	13.0
29	14.0	8.0	19.0	13.5	20.5	13.0	25.5	17.0	23.0	11.5	16.5	13.0
30	14.0	6.5	19.5	13.5	21.0	13.5	27.0	17.0	18.0	15.0	19.0	12.0
31	---	---	19.5	13.5	---	---	27.5	17.0	24.5	14.5	---	---
MONTH	14.0	4.5	19.5	6.0	21.0	10.0	27.5	10.0	25.5	9.5	24.5	8.5

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 mile downstream from Little Sespe Creek, and 3.5 miles north of Fillmore.

DRAINAGE AREA.--251 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1972.
Specific conductance: October 1969 to September 1972.
Water temperatures: October 1966 to September 1972.
Sediment records: Water years 1956-1962 (partial-record station), October 1966 to September 1972.

EXTREMES.--1971-72:
Specific conductance: Maximum, 1,310 micromhos Dec. 14; minimum, 185 micromhos Dec. 25.
Sediment concentrations: Maximum daily, 4,450 mg/l Dec. 24; minimum daily, 5 mg/l on many days.
Sediment discharge: Maximum daily, 31,400 tons Dec. 24; minimum daily, 0 tons on several days during September.

Period of record:
Specific conductance: Maximum, 1,360 micromhos July 27, 1970; minimum (1970-72), 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 Jan. 25, 1969; minimum daily, 0 tons on many days during most years.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.												
19...	1330	1.3	--	--	--	--	--	--	--	279	93	--
JAN.												
11...	1400	75	--	--	--	--	--	--	--	297	30	--
APR.												
25...	1230	10	--	--	--	--	--	--	--	290	55	--
JULY												
25...	1030	.43	--	--	--	--	--	--	--	380	74	--
SEP.												
01...	1230	.30	120	28	88	4.6	189	0	155	350	81	1.2

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)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.										
19...	728	.99	2.56	405	--	--	--	20.0	0	--
JAN.										
11...	678	.92	137	413	--	--	--	10.5	9	--
APR.										
25...	659	.90	17.8	340	--	--	--	21.0	4	--
JULY										
25...	868	1.18	1.01	472	--	--	--	24.0	1	--
SEP.										
01...	--	1.07	.64	410	260	31	1.9	27.5	--	1900

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
19...	1330	1.3	--	8.1	20.0	10.2
JAN.						
11...	1400	75	1080	8.2	10.5	10.7
APR.						
25...	1230	10	1000	8.4	21.0	10.7
JULY						
25...	1030	.43	1200	7.9	24.0	11.5
SEP.						
01...	1230	.30	1200	8.1	27.5	--

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1090	1020	1060	1060	977	1030	1080	1020	1050	762	687	736
2	1120	1020	1070	1090	1010	1060	1090	1030	1060	719	658	684
3	1110	1030	1070	1100	1020	1060	1080	1030	1060	729	611	688
4	1140	1020	1070	1090	1010	1040	1100	1030	1070	787	729	764
5	1100	983	1050	1050	989	1020	1100	1030	1070	803	772	784
6	1130	994	1040	1030	968	1010	1100	936	1060	813	778	795
7	1100	980	1040	1030	976	1000	1110	1020	1070	812	784	799
8	1080	1000	1040	1030	973	1000	1130	1040	1100	818	797	809
9	1070	989	1030	1030	975	1000	1150	1070	1120	828	789	810
10	1070	999	1040	1030	972	1000	1140	1100	1120	831	798	817
11	1080	1000	1040	1020	987	999	1180	1090	1140	837	797	820
12	1060	990	1030	1010	976	991	1170	1110	1150	840	793	822
13	1070	996	1040	1040	986	1010	1180	1130	1160	835	792	810
14	1060	1030	1040	1030	979	1000	1310	1190	1210	819	780	798
15	1070	1040	1060	1050	989	1020	1230	1170	1220	811	783	797
16	1100	1070	1080	1050	998	1030	1280	1190	1230	836	785	807
17	1110	1060	1080	1050	995	1030	1270	1180	1220	828	781	799
18	1120	1050	1070	1060	1010	1040	1270	1170	1220	830	787	804
19	1080	1050	1070	1080	1020	1060	1270	1190	1230	826	793	809
20	1110	1040	1070	1090	1030	1060	1290	1190	1230	837	819	828
21	1090	1020	1050	1080	1010	1050	1260	1190	1220	854	829	838
22	1080	1030	1050	1060	999	1040	1160	509	855	861	817	840
23	1070	1040	1050	1070	1010	1040	856	620	751	882	845	861
24	1100	1050	1070	1050	1000	1030	751	189	390	892	844	873
25	1090	994	1040	1060	1010	1040	478	185	366	906	879	890
26	1070	1000	1040	1060	1010	1040	507	252	381	908	886	899
27	1120	1050	1050	1060	997	1030	507	250	400	926	903	913
28	1070	1010	1040	1060	1010	1040	546	431	485	1020	899	955
29	1080	1030	1060	1050	1000	1030	656	553	621	935	892	914
30	1090	1010	1050	1060	1020	1040	735	635	694	954	913	935
31	1070	995	1040	---	---	---	756	707	734	968	923	950
MONTH	1140	980	1050	1100	968	1030	1310	185	957	1020	611	827

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	973	928	949	979	930	947	981	897	944	987	908	959
2	983	938	963	979	912	946	953	889	925	1020	926	963
3	993	953	979	974	917	949	961	890	930	1010	912	967
4	998	958	981	974	904	946	998	937	975	1060	948	998
5	973	926	950	983	912	956	1000	948	975	1030	992	1010
6	965	935	954	1020	926	971	982	929	962	1050	995	1020
7	997	941	968	987	917	945	988	922	957	1040	971	1000
8	989	942	964	948	896	926	992	917	962	1040	962	994
9	1010	947	984	953	883	924	1010	915	968	1030	937	997
10	1030	980	997	961	887	929	984	923	959	1020	929	988
11	1030	981	997	957	879	920	982	943	958	1040	916	991
12	1030	982	1010	948	892	919	991	947	964	1030	929	986
13	1030	975	999	957	896	925	1000	917	957	1050	931	991
14	1030	976	998	966	896	925	1000	921	961	1020	917	979
15	1020	965	990	948	896	926	998	919	958	1020	904	966
16	1020	966	984	957	900	929	1010	918	963	954	926	945
17	1020	963	991	1010	917	954	996	913	953	971	927	953
18	1020	964	984	996	940	968	1010	932	976	965	926	949
19	1000	957	978	999	932	965	1020	960	993	961	896	938
20	1020	950	974	985	932	960	1040	955	990	956	916	935
21	1020	951	975	981	920	955	1030	953	990	958	896	930
22	991	940	963	994	934	960	1030	943	988	956	881	927
23	988	928	956	978	921	956	1030	938	981	961	889	925
24	979	925	950	998	913	951	1010	924	967	969	890	934
25	988	922	948	994	914	952	1040	927	974	958	875	920
26	961	915	936	997	910	957	1040	926	987	974	863	913
27	982	912	935	999	933	961	1060	946	1000	970	882	924
28	967	909	932	1000	929	966	---	---	---	932	866	896
29	970	912	937	992	886	945	1020	912	962	923	878	900
30	---	---	---	988	900	953	1000	892	956	961	878	910
31	---	---	---	984	918	946	---	---	---	944	891	919
MONTH	1030	909	970	1020	879	946	1060	889	967	1060	863	956

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	943	900	926	1160	1030	1100	1020	909	980	1100	1030	1080
2	995	917	945	1150	1040	1090	1020	804	920	---	---	---
3	982	929	957	1140	1020	1100	831	792	811	---	---	---
4	1000	938	967	1170	1050	1120	843	815	828	---	---	---
5	1000	900	952	1160	1050	1120	857	833	845	---	---	---
6	963	889	927	1160	1080	1120	881	850	869	---	---	---
7	951	895	927	1190	1090	1120	897	873	889	---	---	---
8	979	901	954	1160	1090	1120	927	899	915	---	---	---
9	985	940	963	1180	1100	1140	939	915	930	---	---	---
10	1030	946	969	1200	1050	1140	965	930	956	---	---	---
11	1040	952	989	1180	1070	1120	979	945	970	---	---	---
12	1050	980	999	1150	1080	1110	1000	981	993	---	---	---
13	1070	973	1000	1140	1080	1110	1020	1010	1020	---	---	---
14	1040	974	1010	1140	1070	1110	1040	997	1030	---	---	---
15	1070	993	1030	1140	1070	1110	1060	936	1050	---	---	---
16	1070	1020	1050	1140	1090	1110	1070	1010	1050	---	---	---
17	1100	1010	1060	1140	1050	1110	1080	1010	1060	---	---	---
18	1130	1010	1080	1150	1070	1120	1070	1020	1050	---	---	---
19	1150	1030	1090	1150	1070	1120	1060	1020	1050	---	---	---
20	1150	1050	1110	1160	1070	1120	1070	1010	1050	---	---	---
21	1180	1060	1130	1140	1020	1090	1080	1020	1060	---	---	---
22	1200	1110	1150	1120	1000	1080	1090	1010	1070	---	---	---
23	1190	1110	1150	1120	981	1070	1090	1040	1070	---	---	---
24	1190	1080	1130	1110	989	1070	1100	1070	1090	---	---	---
25	1130	1020	1080	1100	960	1050	1100	1040	1080	---	---	---
26	1180	1010	1070	1090	943	1040	1100	1060	1090	---	---	---
27	1170	1020	1080	1090	926	1030	1100	1050	1080	---	---	---
28	1110	996	1040	1080	934	1030	1100	1060	1090	---	---	---
29	1140	1010	1080	1080	978	1040	1120	1060	1090	1140	1080	1120
30	1150	1030	1090	1050	918	1010	1110	1080	1100	1170	1030	1130
31	---	---	---	1020	902	980	1100	1050	1090	---	---	---
MONTH	1200	889	1030	1200	902	1090	1120	792	1010	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	7.0	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	7.5	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	10.0	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	10.0	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	26.0
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	20.0	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	14.0	---	7.0	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	8.5	---	---	---	---	---	---	---	---
20	---	---	---	---	10.0	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	15.0	---	---	---	---	---	---	17.0	---	---
23	---	---	12.0	11.0	---	---	---	---	---	---	---	---
24	---	---	10.0	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	16.5	---	---	---	---
26	---	---	8.0	---	---	---	---	19.0	---	---	---	---
27	15.0	---	8.0	---	---	---	---	---	---	---	---	---
28	---	---	7.0	10.0	---	---	17.5	---	22.0	---	20.5	21.5
29	---	---	4.0	---	---	12.5	---	---	---	---	---	---
30	---	11.5	7.0	9.0	---	---	---	---	---	---	---	---
31	---	---	8.0	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	2.0	20	.11	2.0	10	.05	2.7	5	.04
2	1.8	20	.10	1.4	5	.02	4.0	10	.11
3	1.7	20	.09	1.5	5	.02	3.3	10	.09
4	1.7	20	.09	2.0	10	.05	3.3	10	.09
5	1.7	20	.09	3.3	15	.13	3.3	10	.09
6	1.5	20	.08	3.8	15	.15	3.5	5	.05
7	1.5	15	.06	3.8	15	.15	3.5	5	.05
8	1.5	15	.06	3.8	15	.15	3.5	5	.05
9	1.5	15	.06	3.8	15	.15	3.5	5	.05
10	1.4	15	.06	3.5	15	.14	3.5	5	.05
11	1.4	15	.06	5.2	20	.28	3.7	5	.05
12	1.3	15	.05	7.9	25	.53	3.7	5	.05
13	1.3	15	.05	6.8	20	.37	3.7	5	.05
14	1.3	10	.04	6.5	15	.26	3.7	5	.05
15	1.3	10	.04	6.5	10	.18	3.7	5	.05
16	1.3	10	.04	6.8	5	.09	4.0	5	.05
17	1.3	10	.04	5.5	5	.07	4.0	5	.05
18	1.3	10	.04	3.8	5	.05	4.0	5	.05
19	1.3	10	.04	3.8	5	.05	4.0	5	.05
20	1.3	10	.04	3.5	5	.05	4.0	5	.05
21	1.2	10	.03	3.3	5	.04	5.0	10	.14
22	1.2	5	.02	2.6	5	.04	371	1040	1590
23	1.2	5	.02	2.8	5	.04	324	944	1160
24	5.5	20	.30	3.3	5	.04	2120	4450	31400
25	6.5	25	.44	3.5	5	.05	1840	3600	23700
26	3.0	20	.16	3.5	5	.05	919	2270	8050
27	3.0	15	.12	2.8	5	.04	1110	3010	9860
28	3.0	15	.12	2.4	5	.03	569	852	1420
29	3.0	15	.12	2.4	5	.03	335	190	172
30	3.0	10	.08	2.4	5	.03	254	80	55
31	3.0	10	.08	--	--	--	204	70	39
TOTAL	63.0	--	2.73	114.2	--	3.33	8123.6	--	77447.31

	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	192	45	23	49	9	1.2	34	8	.73
2	207	50	28	47	9	1.1	34	8	.73
3	192	40	21	46	8	.99	32	8	.69
4	150	30	12	46	8	.99	31	8	.67
5	125	25	8.4	59	22	3.5	33	9	.80
6	110	20	5.9	55	20	3.0	34	10	.92
7	100	15	4.1	50	18	2.4	32	10	.86
8	94	14	3.6	49	18	2.4	32	9	.78
9	86	12	2.8	47	17	2.2	29	9	.70
10	78	13	2.7	46	16	2.0	28	9	.68
11	75	14	2.8	45	15	1.8	27	9	.66
12	73	15	3.0	45	14	1.7	27	8	.58
13	71	16	3.1	44	14	1.7	28	8	.60
14	71	17	3.3	44	13	1.5	28	8	.60
15	71	17	3.3	44	12	1.4	25	8	.54
16	67	16	2.9	44	11	1.3	25	8	.54
17	66	15	2.7	44	10	1.2	24	8	.52
18	62	14	2.3	44	10	1.2	24	7	.45
19	60	13	2.1	43	9	1.0	24	7	.45
20	57	12	1.8	44	10	1.2	23	7	.43
21	57	11	1.7	45	10	1.2	21	7	.40
22	56	10	1.5	45	9	1.1	20	7	.38
23	54	10	1.5	44	9	1.1	20	7	.38
24	54	10	1.5	44	9	1.1	19	7	.36
25	53	10	1.4	40	9	.97	19	7	.36
26	54	10	1.5	39	8	.84	19	6	.31
27	54	9	1.3	38	8	.82	18	6	.29
28	56	9	1.4	37	8	.80	18	6	.29
29	53	9	1.3	36	8	.78	18	6	.29
30	51	9	1.2	--	--	--	17	6	.28
31	50	9	1.2	--	--	--	17	6	.28
TOTAL	2599	--	154.3	1303	--	42.49	780	--	16.55

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	17	6	.28	7.1	5	.10	3.3	5	.04
2	17	6	.28	6.8	5	.09	2.6	5	.04
3	16	6	.26	5.9	5	.08	2.6	5	.04
4	16	6	.26	6.2	6	.10	2.4	5	.03
5	15	6	.24	6.8	6	.11	2.3	5	.03
6	13	6	.21	7.1	6	.12	2.3	5	.03
7	16	7	.30	7.1	7	.13	6.2	15	.25
8	16	7	.30	7.4	7	.14	7.9	20	.43
9	16	7	.30	7.4	7	.14	6.5	20	.35
10	17	8	.37	6.8	6	.11	6.2	15	.25
11	17	8	.37	6.8	6	.11	4.9	10	.13
12	18	9	.44	7.9	7	.15	4.9	10	.13
13	17	9	.41	6.5	6	.11	4.9	10	.13
14	16	8	.35	5.5	6	.09	3.8	9	.09
15	14	8	.30	5.9	6	.10	2.8	9	.07
16	13	7	.25	6.5	7	.12	2.6	8	.06
17	13	7	.25	4.9	6	.08	1.7	8	.04
18	13	7	.25	4.9	5	.07	1.4	8	.03
19	13	7	.25	5.2	5	.07	1.4	7	.03
20	13	7	.25	5.9	6	.10	1.2	7	.02
21	12	7	.23	6.8	6	.11	.87	7	.02
22	12	6	.19	6.8	6	.11	.69	7	.01
23	10	6	.16	6.5	6	.11	.78	10	.02
24	9.7	6	.16	6.2	5	.08	1.1	15	.04
25	9.7	6	.16	6.5	5	.09	2.1	35	.20
26	8.8	6	.14	6.2	5	.08	1.8	30	.15
27	8.8	6	.14	4.6	5	.06	1.3	30	.11
28	8.8	5	.12	3.3	5	.04	1.7	30	.14
29	8.3	5	.11	2.8	5	.04	1.2	30	.10
30	7.9	5	.11	3.3	5	.04	1.1	30	.09
31	--	--	--	3.3	5	.04	--	--	--
TOTAL	402.0	--	7.44	184.9	--	2.92	84.54	--	3.10

	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	.96	30	.08	.48	45	.06	.25	15	.01
2	.96	30	.08	.43	45	.05	.25	10	.01
3	1.1	30	.09	.38	45	.05	.25	10	.01
4	1.3	30	.11	.33	40	.04	.25	9	.01
5	1.2	30	.10	.29	40	.03	.25	8	.01
6	1.3	30	.11	.25	40	.03	.25	7	0
7	1.1	30	.09	.25	40	.03	.25	6	0
8	1.1	30	.09	.25	40	.03	.48	10	.01
9	1.1	30	.09	.25	40	.03	.43	8	.01
10	1.1	25	.07	.21	40	.02	.38	6	.01
11	1.1	25	.07	.18	35	.02	.33	6	.01
12	.87	25	.06	.18	35	.02	.29	5	0
13	.78	25	.05	.18	33	.02	.29	5	0
14	.78	25	.05	.18	33	.02	.29	5	0
15	.78	25	.05	.18	30	.01	.29	5	0
16	.78	25	.05	.21	35	.02	.29	5	0
17	.78	25	.05	.21	30	.02	.25	5	0
18	.61	25	.04	.21	30	.02	.21	5	0
19	.54	25	.04	.21	25	.01	.21	5	0
20	.54	25	.04	.21	25	.01	.21	5	0
21	.48	25	.03	.25	30	.02	.25	5	0
22	.48	21	.03	.25	30	.02	.29	6	0
23	.43	20	.02	.25	25	.02	.29	6	0
24	.43	20	.02	.27	25	.02	.33	7	.01
25	.43	15	.02	.27	20	.01	.33	7	.01
26	.43	15	.02	.29	25	.02	.33	7	.01
27	.38	10	.01	.31	25	.02	.43	8	.01
28	.40	10	.01	.33	30	.03	.38	7	.01
29	.48	15	.02	.33	25	.02	.33	7	.01
30	.78	50	.11	.29	20	.02	.33	6	.01
31	.61	50	.08	.29	15	.01	--	--	--
TOTAL	24.11	--	1.78	8.20	--	.75	8.99	--	.16

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 13695.54
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 77682.86

11113000 SESPE CREEK NEAR FILLMORE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.											
23...	1200	12.0	160	532	230	37	48	53	57	61	--
24...	0900	10.0	3650	6340	62500	21	27	31	50	66	80
24...	1630	11.0	3250	4060	35600	23	29	36	56	69	--
27...	1400	8.0	1470	2790	11100	14	16	22	29	38	46
28...	1220	7.0	545	634	933	35	43	52	62	70	--

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
DEC.											
23...	67	--	70	--	72	--	77	--	84	--	100
24...	--	87	--	96	--	98	--	99	--	100	--
24...	76	--	77	--	84	--	90	--	91	--	96
27...	--	50	--	65	--	92	--	98	--	100	--
28...	78	--	81	--	89	--	96	--	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 upstream from Santa Paula Water Works diversion dam, 200 ft upstream from Mud Creek, and 3 miles north of Santa Paula.

DRAINAGE AREA.--40.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1966 to September 1972.
Specific conductance: April 1969 to September 1972.
Water temperatures: April 1969 to September 1970.

EXTREMES.--1971-72:
Specific conductance: Maximum, 1,340 micromhos July 17; minimum, 520 micromhos Dec. 25.

Period of record:
Specific conductance: Maximum, 1,340 micromhos July 17, 1972; minimum recorded, 477 micromhos Jan. 23, 1971.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	HARDNESS (CA,MG) (MG/L)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
OCT.										
19...	1200	7.1	239	48	617	.84	11.8	360	18.5	0
JAN.										
11...	1145	12	217	28	563	.77	18.2	353	13.5	1
APR.										
25...	1100	2.6	223	44	632	.86	4.44	358	20.0	1
JULY										
25...	0815	.67	238	69	732	1.00	1.32	383	19.0	1

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
19...	1200	7.1	--	8.1	18.5	11.3
JAN.						
11...	1145	12	880	8.2	13.5	10.0
APR.						
25...	1100	2.6	970	8.1	20.0	9.3
JULY						
25...	0815	.67	1120	7.9	19.0	6.9

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1070	953	1020	896	810	865	986	941	969	---	---	---
2	1080	943	1020	908	828	876	1000	965	982	---	---	---
3	1070	968	1030	916	843	884	1010	979	994	---	---	---
4	1190	976	1070	924	844	890	1020	984	1010	794	773	786
5	1210	997	1080	959	862	920	1040	985	1020	826	780	799
6	1240	987	1130	972	870	926	1040	968	1010	826	790	809
7	1280	995	1120	963	885	930	1080	996	1030	829	783	810
8	1110	960	1060	975	893	942	1080	993	1040	841	787	811
9	1180	968	1070	983	901	950	1080	1020	1050	837	794	815
10	1170	963	1060	1010	906	958	1090	1020	1060	833	797	814
11	1160	966	1060	1060	926	988	1130	1030	1070	844	794	818
12	1120	965	1070	1130	931	1000	1090	961	1030	900	808	828
13	1090	979	1050	984	893	945	1030	931	1010	844	804	820
14	1080	971	1030	994	902	953	1030	958	999	867	794	824
15	1050	967	1020	986	887	949	1040	948	997	863	822	841
16	1050	950	1010	987	908	954	1050	957	1010	879	808	833
17	1050	957	1000	992	921	961	1060	969	1000	856	787	816
18	1020	921	981	1000	913	966	1030	978	1010	833	790	812
19	1010	909	972	1010	963	994	1040	969	1010	811	787	799
20	1010	892	962	1010	973	995	1040	968	1010	811	763	793
21	997	880	942	1040	951	989	1100	980	1010	819	757	794
22	964	876	930	996	957	978	1090	702	963	829	783	806
23	962	851	921	1020	935	975	854	785	825	826	780	807
24	965	895	935	1000	949	974	861	559	653	841	801	819
25	969	852	912	1010	946	981	582	520	549	867	794	820
26	915	748	836	1010	942	976	727	588	683	883	808	827
27	833	801	816	1010	943	975	754	708	730	841	804	823
28	856	785	825	992	934	961	766	711	750	837	766	814
29	883	810	851	971	922	951	821	759	788	844	811	832
30	895	811	857	972	927	953	---	---	---	856	804	836
31	895	802	858	---	---	---	---	---	---	844	797	820
MONTH	1280	748	983	1130	810	952	1130	520	940	900	757	815

11113500 SANTA PAULA CREEK NEAR SANTA PAULA, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	837	801	820	912	840	884	1000	912	964	---	---	---
2	852	808	829	921	830	882	1010	900	964	---	---	---
3	871	829	849	908	820	878	1020	927	974	---	---	---
4	871	819	850	921	830	883	1030	923	975	---	---	---
5	856	816	835	944	820	896	---	---	---	1010	969	989
6	868	810	840	948	830	895	979	896	948	992	962	976
7	876	835	859	921	860	895	1050	908	965	976	940	958
8	884	843	863	926	800	877	1040	900	972	972	908	938
9	887	819	855	930	800	886	1040	921	976	985	890	939
10	926	819	848	953	830	906	1020	921	975	1040	868	929
11	904	822	852	953	840	907	1020	939	978	951	852	905
12	896	829	867	957	820	910	1010	939	974	934	815	876
13	904	841	874	966	830	919	1010	900	963	940	808	871
14	904	837	874	974	790	909	1040	900	970	966	850	892
15	908	829	873	966	790	903	1000	892	963	1040	808	909
16	908	829	877	966	800	900	1030	879	964	841	790	820
17	904	837	876	1030	841	930	1010	896	957	839	814	828
18	896	822	866	1020	860	970	1020	926	966	842	821	830
19	900	829	868	1030	834	952	1000	921	962	849	817	833
20	908	829	872	1020	838	945	991	900	958	862	827	841
21	900	829	863	1050	851	939	1010	912	968	872	823	854
22	875	797	850	1000	831	929	1020	917	977	875	833	856
23	892	811	861	999	849	935	1020	930	982	885	836	869
24	892	815	864	998	837	933	1020	939	983	891	843	873
25	908	819	864	997	851	929	1040	948	1000	919	860	889
26	892	819	861	1020	848	936	1080	970	1030	911	851	890
27	892	811	857	1000	849	931	1100	974	1040	958	897	922
28	908	808	862	991	891	933	---	---	---	976	917	943
29	921	826	878	974	862	923	---	---	---	1010	910	962
30	---	---	---	994	906	951	---	---	---	1090	930	1000
31	---	---	---	1010	920	968	---	---	---	1120	965	1020
MONTH	926	797	859	1050	790	917	1100	879	975	1120	790	904

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1140	964	1020	1200	1070	1140	---	---	---	1200	1130	1170
2	1110	981	1030	1210	1070	1150	---	---	---	1190	1040	1150
3	1060	991	1030	1330	1050	1130	---	---	---	---	---	---
4	1120	1010	1060	1240	1030	1130	1140	961	1040	---	---	---
5	1170	1040	1100	1230	1040	1130	1250	966	1070	---	---	---
6	1190	1020	1100	1320	1070	1150	1260	1020	1100	---	---	---
7	1160	1010	1080	1280	1020	1130	1180	970	1080	---	---	---
8	1150	1060	1080	1220	1080	1120	1180	983	1070	---	---	---
9	1100	1050	1070	1240	1050	1150	1230	1000	1110	---	---	---
10	1100	1060	1080	1220	1020	1130	1190	996	1080	---	---	---
11	1330	1070	1150	1200	1010	1110	1190	983	1100	---	---	---
12	1240	1070	1140	1210	999	1110	1160	1010	1090	---	---	---
13	1120	1040	1090	1240	1040	1140	1120	996	1070	---	---	---
14	1150	1050	1100	1220	1050	1150	1120	996	1080	---	---	---
15	1200	1050	1120	1240	1080	1140	1120	939	1070	---	---	---
16	1190	1090	1150	1210	1060	1150	1120	1000	1080	---	---	---
17	1190	1110	1150	1340	1070	1180	1130	1080	1100	---	---	---
18	1160	1090	1130	1220	1060	1160	1120	1070	1090	---	---	---
19	1170	1090	1130	1200	1080	1160	1190	1010	1110	---	---	---
20	1150	1110	1130	1220	1100	1180	1190	1090	1120	---	---	---
21	1160	1110	1140	1220	1070	1130	1190	1010	1110	---	---	---
22	1200	1140	1160	1250	1050	1150	1210	1010	1080	---	---	---
23	1200	1080	1140	1260	1060	1140	1230	1000	1130	---	---	---
24	1190	1070	1140	1310	1090	1160	1190	1100	1140	---	---	---
25	1170	1040	1100	1310	1090	1170	1200	1120	1150	---	---	---
26	1180	1010	1110	1290	1060	1140	1150	1080	1130	---	---	---
27	1200	1030	1120	1260	1060	1130	1170	1090	1130	---	---	---
28	1180	1020	1100	1310	1040	1120	1170	1110	1130	---	---	---
29	1200	1030	1120	1280	1050	1100	1280	1040	1150	---	---	---
30	1180	1020	1110	---	---	---	1280	1110	1190	---	---	---
31	---	---	---	---	---	---	1220	1130	1170	---	---	---
MONTH	1330	964	1110	1340	999	1140	1280	939	1110	---	---	---

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 mile downstream from Santa Clara River, and 1.5 miles east of Saticoy.

PERIOD OF RECORD.--Specific conductance: April 1969 to September 1972.
Water temperatures: April 1969 to September 1970.

EXTREMES.--1971-72:
Specific conductance: Maximum, 2,220 micromhos June 1; minimum recorded, 1,140 micromhos Jan. 6.

Period of record:
Specific conductance: Maximum, 2,220 micromhos June 1, 1972; minimum, 825 micromhos Jan. 19, 1971.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1870	1740	1800	1930	1700	1830	1960	1830	1910	---	---	---
2	1890	1740	1820	1890	1770	1820	1970	1770	1910	---	---	---
3	1900	1730	1820	1910	1750	1840	1920	1760	1860	---	---	---
4	1880	1730	1810	1900	1750	1830	1960	1700	1860	---	---	---
5	1860	1650	1790	1900	1770	1830	1960	1830	1890	---	---	---
6	1860	1720	1790	1880	1720	1820	1970	1760	1880	1220	1140	1180
7	1850	1700	1780	1870	1720	1810	1900	1790	1850	1220	1160	1190
8	1850	1710	1800	1840	1700	1790	1990	1850	1920	1220	1170	1190
9	1880	1740	1810	1860	1730	1810	2040	1870	1960	1230	1160	1200
10	1890	1740	1810	1880	1670	1800	2030	1910	1980	1250	1170	1210
11	1870	1740	1810	1890	1800	1850	2050	1900	1990	1260	1180	1220
12	1870	1770	1820	1830	1600	1760	2050	1890	1980	1300	1230	1250
13	1860	1720	1820	1940	1820	1880	1940	1770	1880	1320	1250	1280
14	1880	1810	1850	1950	1690	1880	2010	1970	1990	1320	1260	1300
15	1920	1830	1890	1980	1640	1880	2060	1860	1980	1380	1310	1340
16	2000	1890	1950	1970	1820	1900	2080	1920	2000	1420	1310	1370
17	2020	1880	1960	1980	1760	1900	2070	1940	2000	1430	1350	1380
18	1980	1850	1920	1980	1810	1910	2010	1920	1960	1430	1390	1410
19	1970	1840	1900	2040	1960	1990	1990	1820	1910	1460	1420	1440
20	1970	1840	1900	2070	1890	1990	1980	1840	1910	1510	1450	1480
21	1970	1820	1900	2050	1900	1980	1970	1840	1910	1530	1450	1490
22	1980	1810	1900	2010	1850	1950	---	---	---	1540	1430	1480
23	1970	1820	1890	2010	1880	1940	---	---	---	1530	1440	1480
24	1920	1830	1870	1970	1820	1910	---	---	---	1550	1450	1500
25	1940	1770	1870	1980	1830	1900	---	---	---	1600	1480	1530
26	1930	1790	1860	1940	1810	1880	---	---	---	1540	1470	1510
27	1810	1780	1790	1930	1790	1870	---	---	---	1570	1490	1540
28	1860	1710	1800	1890	1690	1820	---	---	---	1560	1450	1510
29	1930	1740	1850	1840	1630	1860	---	---	---	1560	1470	1510
30	1950	1710	1840	1900	1690	1830	---	---	---	1610	1530	1570
31	1930	1760	1840	---	---	---	---	---	---	1620	1480	1560
MONTH	2020	1650	1850	2070	1600	1870	---	---	---	1620	1140	1390

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1570	1460	1520	1710	1620	1660	1930	1640	1850	1960	1800	1880
2	1640	1490	1560	1720	1600	1650	2020	1600	1810	1960	1790	1870
3	1690	1560	1630	1720	1590	1650	1860	1710	1800	1960	1810	1890
4	1650	1550	1600	1700	1600	1660	1930	1750	1820	1960	1870	1910
5	1570	1480	1520	1740	1630	1680	1930	1810	1860	1900	1840	1880
6	1510	1450	1480	1740	1660	1710	1890	1780	1840	2070	1870	1910
7	1570	1480	1520	1770	1710	1740	1950	1800	1860	1930	1810	1880
8	1610	1510	1570	1790	1690	1740	--	--	--	1910	1790	1840
9	1600	1510	1550	1790	1680	1740	1950	1790	1870	1920	1770	1830
10	1640	1410	1580	1810	1700	1750	1950	1830	1870	1890	1790	1840
11	1660	1560	1600	2010	1710	1750	2010	1870	1920	1900	1810	1860
12	1700	1540	1620	1990	1720	1750	1990	1870	1930	1880	1790	1850
13	1690	1550	1610	2060	1710	1750	2060	1890	1950	1880	1790	1850
14	1680	1570	1610	2040	1710	1760	2040	1890	1950	1890	1790	1840
15	1660	1550	1600	1990	1710	1750	1990	1840	1930	1840	1770	1800
16	1660	1660	1610	2020	1720	1760	2020	1840	1930	1840	1760	1800
17	1700	1590	1640	1820	1750	1780	1980	1830	1900	1860	1800	1820
18	1650	1590	1620	1830	1760	1790	1980	1840	1900	1850	1810	1830
19	1680	1580	1630	1840	1750	1800	1990	1860	1930	1900	1830	1870
20	1680	1580	1630	1810	1750	1780	2020	1800	1940	1890	1790	1840
21	1670	1590	1620	1840	1750	1790	1980	1780	1880	1970	1790	1830
22	1670	1580	1620	1860	1760	1790	1960	1830	1900	1860	1790	1830
23	1670	1590	1630	1810	1750	1790	1940	1800	1880	1880	1800	1850
24	1720	1600	1660	1900	1750	1800	1930	1800	1880	1940	1840	1880
25	1710	1610	1660	1930	1610	1780	1960	1830	1900	1930	1820	1870
26	1750	1610	1670	1830	1660	1750	1990	1830	1920	1880	1830	1860
27	1700	1590	1650	1890	1690	1800	1980	1780	1900	1920	1760	1880
28	1670	1580	1640	1950	1710	1870	1940	1810	1880	2030	1830	1900
29	1710	1600	1660	1930	1700	1840	1980	1780	1890	1910	1830	1880
30	---	---	---	1930	1700	1840	1960	1780	1880	1950	1850	1890
31	---	---	---	2010	1740	1880	---	---	---	2140	1860	1990
MONTH	1750	1410	1600	2060	1590	1760	2060	1450	1890	2140	1760	1860

11113900 SATICOY DIVERSION NEAR SATICOY, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2220	1490	1870	2110	1960	2040	---	---	---	2070	2010	2040
2	2190	1820	2060	2090	1930	2020	---	---	---	2110	1970	2020
3	2160	1920	2050	2080	1900	1970	---	---	---	2100	1990	2060
4	2150	1920	2010	2010	1740	1930	2060	1660	2010	2080	2040	2060
5	2030	1870	1950	2040	1930	1990	2010	1920	1980	2070	2010	2040
6	2030	1910	1980	2040	1920	1990	1950	1890	1930	2040	1970	2000
7	2050	1960	2010	2050	1910	2000	1900	1800	1860	2060	1960	2010
8	2060	1900	2010	2160	1950	2030	1900	1830	1870	---	---	---
9	2110	2000	2040	2030	1920	1980	1930	1520	1870	2140	2070	2110
10	2150	2000	2050	2050	1920	2000	1890	1840	1870	2170	2140	2160
11	2120	1990	2040	2000	1890	1940	1950	1860	1930	2180	1990	2120
12	2060	1920	1990	2000	1890	1940	2020	1930	1980	2100	1860	2020
13	2060	1970	2020	---	---	---	2040	1990	2010	2050	1840	1980
14	2050	1950	2000	---	---	---	2010	1960	1990	2090	1880	1990
15	2030	1510	1970	---	---	---	1990	1980	1980	2030	1800	1940
16	2080	1960	2010	---	---	---	1990	1960	1980	2130	1850	2030
17	2070	1930	2010	---	---	---	1980	1920	1940	2110	1870	1990
18	2090	1850	1990	---	---	---	--	--	--	2010	1870	1940
19	2050	1850	1940	---	---	---	2020	1970	1990	2020	1850	1950
20	2050	1930	2000	---	---	---	2040	1970	2000	2090	1930	2000
21	2100	1790	2000	---	---	---	2060	1960	2010	2080	1940	1990
22	2080	1930	2040	---	---	---	2060	1960	2020	2070	1890	1980
23	2090	1850	2030	---	---	---	2050	2000	2030	2050	1910	1970
24	2090	1870	2000	---	---	---	2080	2000	2050	2030	1900	1960
25	2070	1770	1940	---	---	---	2050	2000	2030	2040	1870	1950
26	2020	1820	1930	---	---	---	2040	1580	2000	2040	1860	1980
27	2030	1850	1950	---	---	---	2060	1990	2020	---	---	---
28	2080	1540	1970	---	---	---	2060	2000	2030	---	---	---
29	2100	1950	2020	---	---	---	2050	1970	2010	---	---	---
30	2110	2000	2050	---	---	---	2050	1600	1990	---	---	---
31	---	---	---	---	---	---	2050	1980	2030	---	---	---
MONTH	2220	1490	2000	---	---	---	2080	1490	1980	2180	1800	2010

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 mile southeast of Montalvo.

DRAINAGE AREA.--1,612 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1969, October 1970 to September 1972.
Sediment records: October 1967 to September 1972.
Prior to October 1969, published as "at Saticoy" (sta 11113920).

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 21,200 mg/l Mar. 16; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 231,000 tons Dec. 27; minimum daily, 0 tons 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 Feb. 25, 1969; minimum daily, 0 tons on many days each year.

REMARKS.--Miscellaneous analyses of chemical data published for water year 1969. No flow Dec. 18, 19, July 19-27, July 31 to Aug. 18, Aug. 20 to Sept. 15. High sediment concentrations during low flow period January to September, due to sluicing of fine material at upstream gravel works.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	8.0	---	---	21.0	---	---	---	---	---
2	---	---	---	8.0	---	---	21.0	27.0	---	---	---	---
3	---	---	---	7.0	5.0	---	23.0	---	---	---	---	---
4	---	---	14.5	6.0	6.0	5.0	24.5	22.0	---	---	---	---
5	---	---	---	5.0	5.0	6.0	19.0	25.0	---	---	---	---
6	---	17.0	---	6.0	---	---	22.0	---	---	---	---	---
7	---	---	10.0	5.0	---	6.0	24.0	24.0	---	---	---	---
8	---	---	---	5.0	---	5.0	24.5	---	24.0	---	---	---
9	---	---	---	4.0	---	5.0	24.5	24.0	---	---	---	---
10	---	---	---	4.0	---	5.0	23.0	---	---	---	---	---
11	---	17.0	13.5	4.0	---	5.0	25.0	25.0	---	---	---	---
12	---	---	---	---	5.0	---	23.5	---	---	---	---	---
13	---	14.5	---	---	---	---	24.0	27.0	---	---	---	---
14	---	---	---	---	---	7.0	24.5	---	24.5	---	---	---
15	24.0	---	---	---	---	6.0	24.0	---	15.5	---	---	---
16	18.5	---	---	---	---	6.0	23.5	24.0	---	---	---	---
17	---	---	---	---	---	6.0	23.0	---	---	---	---	---
18	---	---	---	5.0	---	5.0	22.0	21.0	---	---	---	---
19	---	---	---	13.0	6.0	5.0	20.5	---	---	---	---	---
20	---	18.5	---	---	---	---	19.5	22.0	---	---	---	---
21	---	---	---	---	---	---	20.0	---	---	---	---	---
22	---	---	10.0	---	---	---	---	---	---	---	---	---
23	---	---	9.0	---	7.0	---	24.0	25.0	---	---	---	---
24	---	---	9.0	---	5.0	20.5	22.0	---	---	---	---	---
25	---	---	9.0	6.0	6.0	35.0	23.5	23.5	---	---	---	---
26	---	---	8.0	6.0	6.0	---	24.5	---	---	---	---	26.5
27	---	15.0	8.0	5.0	---	---	23.0	---	---	---	---	---
28	---	---	7.5	4.0	---	25.0	23.5	---	---	---	---	---
29	---	---	8.0	5.0	---	---	---	---	---	---	---	---
30	18.5	---	6.0	---	---	18.0	25.0	---	---	---	---	---
31	---	---	8.0	---	---	22.0	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	23.0	---	---	---	---	---

11114000 SANTA CLARA RIVER AT MONTALVO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.04	10	0	.03	90	.01	.10	58	.02
2	.04	10	0	.03	80	.01	.10	57	.02
3	.04	10	0	.03	70	.01	.10	56	.02
4	.04	15	0	.03	65	.01	.10	55	.01
5	.04	15	0	.03	60	0	.10	52	.01
6	.04	15	0	.03	55	0	.10	48	.01
7	.04	20	0	.03	56	0	.10	45	.01
8	.04	20	0	.02	57	0	.10	42	.01
9	.04	20	0	.02	59	0	.10	40	.01
10	.04	25	0	.02	60	0	.40	100	.11
11	.04	25	0	.02	62	0	.30	34	.03
12	.04	25	0	.02	63	0	.30	30	.02
13	.04	30	0	.02	64	0	.40	122	.13
14	.04	30	0	.02	64	0	1.7	241	1.6
15	.04	35	0	.03	63	.01	2.1	224	2.3
16	.04	35	0	.03	63	.01	1.9	240	2.3
17	.04	36	0	.04	62	.01	2.0	580	3.6
18	.04	37	0	.05	61	.01	0	0	0
19	.04	39	0	.05	60	.01	0	0	0
20	.04	40	0	.05	60	.01	.90	300	.73
21	.04	42	0	.05	60	.01	2.4	272	3.5
22	.04	43	0	.05	60	.01	46	850	353
23	.04	44	0	.05	60	.01	340	2150	1950
24	.04	50	.01	.05	61	.01	2510	6410	81100
25	.04	60	.01	.05	61	.01	1870	7030	43000
26	.03	65	.01	.05	61	.01	1890	11400	73300
27	.03	75	.01	.05	61	.01	3700	17800	231000
28	.03	85	.01	.05	61	.01	1430	7980	31900
29	.03	90	.01	.05	60	.01	700	3350	6330
30	.03	100	.01	.05	59	.01	430	2000	2320
31	.03	95	.01	--	--	--	300	800	648
TOTAL	1.18	--	.08	1.10	--	.20	13229.30	--	471915.44

	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	250	261	176	1.4	5360	32	4.0	3420	45
2	240	410	266	.63	3460	10	4.5	3090	38
3	230	331	206	1.2	5970	32	4.9	3700	49
4	226	326	199	1.4	7220	42	3.8	800	8.2
5	150	300	122	.59	800	1.3	2.1	1940	11
6	100	280	76	.50	1150	2.6	2.4	3570	23
7	80	275	59	1.7	3050	22	4.5	7830	95
8	60	229	37	2.2	4410	42	4.5	6550	80
9	50	176	24	2.8	4300	44	3.8	8540	88
10	40	185	20	3.1	3460	37	2.9	5790	45
11	30	170	14	2.8	3370	32	2.6	2000	14
12	20	150	8.1	1.4	300	1.1	1.4	400	1.5
13	10	170	4.6	1.9	1690	8.7	1.0	200	.54
14	2.5	135	.91	3.3	2680	34	1.5	14500	59
15	.42	90	.10	2.8	2710	28	1.5	16300	66
16	.23	80	.05	3.5	2720	38	1.7	21200	97
17	3.5	3140	39	5.3	2780	48	1.5	6900	28
18	4.7	3100	60	3.5	400	3.8	1.4	900	3.4
19	4.9	3700	80	2.4	130	.84	.80	7270	16
20	5.4	4180	97	1.5	100	.41	.69	800	1.5
21	5.0	3710	81	3.7	3120	44	.69	300	.56
22	1.2	800	2.6	5.2	3050	50	.80	7600	16
23	.35	300	.28	5.6	6150	110	.92	6000	15
24	1.0	2780	12	3.5	1500	14	.69	6840	13
25	1.2	3680	18	2.9	5200	41	.69	1800	3.4
26	1.4	5230	24	3.0	2950	33	.50	350	.47
27	1.6	6230	32	2.6	1900	13	.28	300	.23
28	1.5	5650	30	2.1	300	1.7	.59	2490	4.0
29	.44	700	.83	2.1	200	1.1	1.0	6180	17
30	.14	250	.09	--	--	--	.92	2300	5.7
31	.88	4530	20	--	--	--	.50	5070	6.8
TOTAL	1522.36	--	1709.56	74.62	--	767.55	59.07	--	851.30

11114000 SANTA CLARA RIVER AT MONTALVO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.69	2900	5.4	1.7	300	1.4	.03	70	.01
2	.42	100	.11	1.7	1550	7.1	.03	60	0
3	.23	1310	.81	1.7	400	1.8	.03	50	0
4	1.4	2500	13	1.7	2800	13	.03	45	0
5	2.0	1450	10	1.8	4670	34	.04	40	0
6	2.2	1150	9.0	1.4	1200	4.5	.04	35	0
7	2.5	10700	92	.50	100	.14	.04	30	0
8	.80	1400	3.0	1.5	3080	17	.18	1530	1.8
9	.35	310	.29	1.5	2730	11	.54	3300	8.5
10	1.0	3950	22	.92	700	1.7	.05	400	.05
11	2.0	2570	12	1.0	1950	5.3	.05	300	.04
12	1.4	4070	15	1.0	500	1.4	.06	350	.06
13	2.3	6770	52	.90	1390	3.4	.06	300	.05
14	1.4	2600	9.8	.80	300	.65	.22	1460	2.1
15	.59	400	.64	.70	150	.28	.70	2530	5.3
16	.18	200	.10	.60	30	.05	.87	2240	.77
17	.87	740	1.7	.60	150	.24	.26	2630	3.4
18	.35	2070	2.0	.60	300	.49	.02	250	.01
19	.80	3200	6.9	.50	1760	2.4	.02	150	.01
20	1.7	3550	22	.03	400	.03	.28	2500	1.9
21	2.8	3190	27	.06	1710	.28	.17	1000	.46
22	1.2	700	2.3	.02	600	.03	.09	700	.17
23	.28	100	.08	.03	1870	.15	.08	250	.05
24	.74	2200	9.0	.03	1350	.17	.07	100	.02
25	2.6	4600	40	.03	320	.03	.03	90	.01
26	2.6	5350	38	.02	250	.01	.04	80	.01
27	1.9	3350	17	.02	200	.01	.04	70	.01
28	1.8	2380	12	.02	150	.01	.04	60	.01
29	1.8	1700	8.3	.02	100	.01	.04	50	.01
30	1.8	500	2.4	.02	90	0	.04	40	0
31	--	--	--	.03	80	.01	--	--	--
TOTAL	40.70	--	433.83	21.45	--	106.59	4.19	--	24.75

	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	.02	35	0	0	0	0	0	0	0
2	.02	35	0	0	0	0	0	0	0
3	.01	30	0	0	0	0	0	0	0
4	.01	30	0	0	0	0	0	0	0
5	.01	30	0	0	0	0	0	0	0
6	.03	40	0	0	0	0	0	0	0
7	.04	45	0	0	0	0	0	0	0
8	.14	300	.11	0	0	0	0	0	0
9	.05	150	.02	0	0	0	0	0	0
10	.05	100	.01	0	0	0	0	0	0
11	.05	90	.01	0	0	0	0	0	0
12	.06	80	.01	0	0	0	0	0	0
13	.07	80	.02	0	0	0	0	0	0
14	.10	90	.02	0	0	0	0	0	0
15	.07	80	.02	0	0	0	0	0	0
16	.05	70	.01	0	0	0	.05	45	.01
17	.03	50	0	0	0	0	.04	40	0
18	.01	30	0	0	0	0	.04	35	0
19	0	0	0	.10	300	.08	.16	1150	1.5
20	0	0	0	0	0	0	1.0	2240	11
21	0	0	0	0	0	0	2.5	2870	32
22	0	0	0	0	0	0	4.6	3150	62
23	0	0	0	0	0	0	.59	700	1.1
24	0	0	0	0	0	0	.28	300	.23
25	0	0	0	0	0	0	1.8	1650	20
26	0	0	0	0	0	0	3.9	1820	36
27	0	0	0	0	0	0	2.6	2180	27
28	.01	60	0	0	0	0	2.4	2200	26
29	.02	50	0	0	0	0	2.2	2320	24
30	.03	40	0	0	0	0	.59	450	.72
31	0	0	0	0	0	0	--	--	--
TOTAL	.88	--	.23	.10	--	.08	22.75	--	241.56

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 14977.70
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 476051.17

11114000 SANTA CLARA RIVER AT MONTALVO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.										
23...	1000	9.0	336	1440	1310	41	57	76	89	95
24...	1700	9.0	5300	16700	239000	32	34	42	60	72
25...	1700	9.0	961	3830	9940	23	34	43	52	61
26...	1200	8.0	1580	9840	42000	26	29	39	49	55
27...	1200	8.0	6000	22900	321000	30	36	42	58	71
27...	1700	8.0	3030	11300	92400	31	35	43	60	72
JAN.										
26...	0800	6.0	.69	15300	29	60	84	96	98	98
27...	0700	5.0	.92	9480	24	59	75	96	99	99
27...	1230	5.0	2.6	9180	64	59	74	95	98	98
28...	0700	4.0	.92	7000	17	74	82	95	99	100
FEB.										
03...	0800	5.0	.18	12300	6.0	60	81	97	100	--
04...	1700	6.0	1.9	9240	47	58	75	94	96	96
23...	1200	7.0	3.5	29400	278	60	78	96	100	--
24...	0700	5.0	3.5	2290	22	43	57	81	95	97
25...	0700	6.0	2.9	21500	168	61	78	96	97	98
MAR.										
07...	1200	6.0	6.5	17400	305	60	79	91	98	99
09...	0700	5.0	2.9	39200	307	--	--	--	--	96
14...	1200	7.0	1.5	45400	184	54	69	89	97	100
15...	1200	6.0	2.1	33400	189	54	72	87	95	95
16...	0700	6.0	1.4	26200	99	56	69	84	96	98
17...	0700	6.0	1.7	8760	40	36	50	63	85	95
24...	1345	20.5	.69	26800	50	58	76	89	98	98
31...	1545	22.0	1.5	14100	57	60	78	91	98	99
APR.										
03...	1530	23.0	.23	3680	2.3	59	78	91	98	100
07...	1530	24.0	3.5	26900	254	57	75	89	99	99
10...	1600	23.0	3.2	15500	134	57	74	92	100	--
13...	1545	24.0	2.6	8230	58	57	74	91	98	99
18...	1615	22.0	.35	6470	6.1	50	61	80	91	98
21...	1600	20.0	4.1	3960	44	44	56	71	81	90
26...	1530	24.5	3.2	10600	92	49	63	78	88	95
28...	1640	23.5	1.8	5310	26	59	74	86	97	99
MAY										
05...	1345	25.0	3.2	6190	53	62	72	88	96	99
11...	1745	25.0	1.0	3310	8.9	65	83	94	98	99

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.										
23...	--	96	--	97	--	98	--	99	--	100
24...	79	--	87	--	97	--	99	--	100	--
25...	66	--	68	--	81	--	94	--	100	--
26...	59	--	62	--	83	--	96	--	100	--
27...	80	--	85	--	94	--	99	--	100	--
27...	78	--	83	--	91	--	99	--	100	--
JAN.										
26...	--	100	--	--	--	--	--	--	--	--
27...	--	100	--	--	--	--	--	--	--	--
27...	--	100	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
FEB.										
03...	--	--	--	--	--	--	--	--	--	--
04...	97	--	97	--	98	--	100	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
24...	--	98	--	98	--	99	--	100	--	--
25...	--	100	--	--	--	--	--	--	--	--
MAR.										
07...	--	100	--	--	--	--	--	--	--	--
09...	--	97	--	97	--	98	--	99	--	100
14...	--	--	--	--	--	--	--	--	--	--
15...	--	100	--	--	--	--	--	--	--	--
16...	--	100	--	--	--	--	--	--	--	--
17...	--	97	--	97	--	98	--	100	--	--
24...	--	100	--	--	--	--	--	--	--	--
31...	--	100	--	--	--	--	--	--	--	--
APR.										
03...	--	--	--	--	--	--	--	--	--	--
07...	--	100	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
13...	--	100	--	--	--	--	--	--	--	--
18...	--	100	--	--	--	--	--	--	--	--
21...	--	97	--	100	--	--	--	--	--	--
26...	--	99	--	100	--	--	--	--	--	--
28...	--	100	--	--	--	--	--	--	--	--
MAY										
05...	--	100	--	--	--	--	--	--	--	--
11...	--	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 downstream from county road bridge at Foster Memorial Park, 0.2 mile downstream from Coyote Creek, and 5 miles north of Ventura.

DRAINAGE AREA.--188 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1907 to December 1908, October 1966 to September 1968, water years 1969-72 (partial-record station).
Water temperatures: October 1968 to September 1969, October 1970 to September 1972.
Sediment records: October 1968 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 2,150 mg/l Dec. 27; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 6,520 tons Dec. 27; minimum daily, 0 tons on many days.

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 (estimated) Jan. 25, 1969; minimum daily, 0 tons on many days each year.

REMARKS.--Prior to June 1969, at site 450 ft downstream. Chemical-quality records furnished by California Department of Water Resources. No flow Oct. 1 to Nov. 27, Dec. 15-21, May 5-13, 16-18, 20, 21, June 9 to Sept. 30.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	HARDNESS (CA,MG) (MG/L)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
JAN.										
10...	1015	3.3	281	62	778	1.06	6.93	496	9.5	1
APR.										
24...	0800	.30	283	51	787	1.07	.64	489	15.5	2

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
JAN.						
10...	1015	3.3	1180	7.8	9.5	9.7
APR.						
24...	0800	.30	1190	7.4	15.5	5.9

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.								
24...	1600	13.0	225	517	314	70	86	92
27...	0805	8.0	1660	5610	25100	48	54	62
27...	1200	10.0	476	2550	3280	47	61	79
27...	1600	10.0	150	843	341	53	66	82
28...	1200	9.0	85	285	65	70	85	89

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
DEC.							
24...	96	96	96	97	98	99	100
27...	79	95	100	--	--	--	--
27...	93	97	99	99	100	--	--
27...	88	94	98	99	99	100	--
28...	92	93	94	96	98	100	--

11118500 VENTURA RIVER NEAR VENTURA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	16.0	17.0	---	---	---
2	---	---	---	---	---	18.0	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	10.0	---	12.0	---	---	17.0	---	---	---	---
5	---	---	---	---	13.0	---	---	---	---	---	---	---
6	---	---	---	11.0	---	---	---	---	22.0	---	---	---
7	---	---	---	---	---	---	18.0	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	19.0	---	---	---	---	---	---
10	---	---	---	---	14.0	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	12.0	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	12.0	15.0	18.0	19.0	---	---	---	---	---
18	---	---	---	---	---	---	---	17.0	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	13.0	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	19.0	---	---	---	---	---
22	---	---	11.0	---	---	---	---	---	---	---	---	---
23	---	---	13.0	---	---	18.0	---	---	---	---	---	---
24	---	---	13.0	---	16.0	---	---	---	---	---	---	---
25	---	---	13.0	9.0	---	---	---	---	---	---	---	---
26	---	---	12.0	---	---	---	---	---	---	---	---	---
27	---	---	10.0	11.0	---	11.5	19.0	---	---	---	---	---
28	---	---	9.0	---	---	---	---	---	---	---	---	---
29	---	---	8.0	---	12.5	---	---	---	---	---	---	---
30	---	---	---	---	---	18.0	---	21.0	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.08	40	.01
2				0	0	0	.08	30	.01
3				0	0	0	.04	20	0
4				0	0	0	.07	22	0
5				0	0	0	.06	20	0
6				0	0	0	.04	15	0
7				0	0	0	.04	10	0
8				0	0	0	.03	9	0
9				0	0	0	.04	9	0
10				0	0	0	.04	8	0
11				0	0	0	.06	8	0
12				0	0	0	.07	7	0
13				0	0	0	.09	8	0
14				0	0	0	.07	7	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	12	105	7.1
23				0	0	0	6.2	24	.60
24				0	0	0	146	349	250
25				0	0	0	163	218	223
26				0	0	0	65	138	31
27				0	0	0	520	2150	6520
28				.05	50	.01	66	184	36
29				.11	60	.02	28	59	4.5
30				.09	50	.01	21	35	2.0
31				--	--	--	15	30	1.2
TOTAL	0	--	0	.25	--	.04	1043.01	--	7075.42

11118500 VENTURA RIVER NEAR VENTURA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	30	1.3	6.6	11	.20	1.7	13	.06
2	14	25	.95	7.2	11	.21	4.2	15	.17
3	12	25	.81	8.6	12	.28	1.9	10	.05
4	11	20	.59	6.3	7	.12	3.7	8	.08
5	5.2	15	.21	6.7	6	.11	5.0	6	.08
6	.72	10	.02	8.3	5	.11	5.0	5	.07
7	1.3	11	.04	10	6	.16	2.2	4	.02
8	.99	10	.03	5.9	5	.08	3.7	5	.05
9	2.0	12	.06	6.0	4	.06	8.0	10	.22
10	3.8	16	.16	9.0	3	.07	6.0	9	.15
11	3.8	15	.15	9.2	3	.07	2.4	8	.05
12	1.9	15	.08	8.6	4	.09	1.4	7	.03
13	1.8	15	.07	7.2	5	.10	1.3	6	.02
14	2.1	17	.10	6.0	6	.10	1.6	5	.02
15	6.3	20	.34	5.3	7	.10	1.8	4	.02
16	6.0	15	.24	5.0	8	.11	2.4	3	.02
17	2.6	10	.07	4.8	8	.10	2.9	3	.02
18	1.6	8	.03	3.7	7	.07	2.7	4	.03
19	2.5	10	.07	3.4	6	.06	1.9	5	.03
20	5.1	14	.19	5.4	7	.10	1.9	6	.03
21	4.2	14	.16	6.0	6	.10	1.8	7	.03
22	4.1	13	.14	3.9	5	.05	1.1	6	.02
23	3.3	12	.11	3.4	4	.04	1.2	7	.02
24	2.9	12	.09	5.3	4	.06	1.1	7	.02
25	3.4	15	.14	5.5	5	.07	1.8	8	.04
26	6.2	18	.30	3.9	4	.04	2.0	9	.05
27	9.3	20	.50	3.8	4	.04	1.3	9	.03
28	5.7	15	.23	2.9	7	.05	1.1	8	.02
29	2.5	10	.07	1.2	10	.03	.95	8	.02
30	3.5	8	.08	--	--	--	.73	8	.02
31	5.4	10	.15	--	--	--	.70	8	.02
TOTAL	151.21	--	7.48	169.1	--	2.78	75.48	--	1.51

	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	1.2	10	.03	.17	12	.01	1.7	35	.16
2	2.8	40	.30	.13	12	0	1.2	30	.10
3	.58	30	.05	.14	12	0	1.6	30	.13
4	.44	30	.04	.04	12	0	1.8	25	.12
5	.42	25	.03	0	0	0	1.9	20	.10
6	.54	30	.04	0	0	0	1.3	15	.05
7	.48	30	.04	0	0	0	.16	10	0
8	.36	25	.02	0	0	0	.39	5	.01
9	1.5	40	.16	0	0	0	0	0	0
10	4.3	50	.58	0	0	0	0	0	0
11	.49	40	.05	0	0	0	0	0	0
12	.79	30	.06	0	0	0	0	0	0
13	.50	20	.03	0	0	0	0	0	0
14	1.2	25	.08	.19	40	.02	0	0	0
15	1.3	25	.09	.51	50	.07	0	0	0
16	.56	20	.03	0	0	0	0	0	0
17	.55	20	.03	0	0	0	0	0	0
18	.69	23	.04	0	0	0	0	0	0
19	.38	22	.02	.55	22	.03	0	0	0
20	.91	25	.06	0	0	0	0	0	0
21	.37	19	.02	0	0	0	0	0	0
22	.46	20	.02	2.0	30	.16	0	0	0
23	1.8	25	.12	4.0	40	.43	0	0	0
24	.27	20	.01	4.2	45	.51	0	0	0
25	.17	15	.01	5.1	50	.69	0	0	0
26	.09	11	0	3.9	45	.47	0	0	0
27	.08	10	0	3.6	40	.39	0	0	0
28	.11	11	0	3.8	45	.46	0	0	0
29	.25	12	.01	3.3	40	.36	0	0	0
30	.30	13	.01	3.9	45	.47	0	0	0
31	--	--	--	2.3	40	.25	--	--	--
TOTAL	23.89	--	1.98	37.83	--	4.32	10.05	--	.67

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1510.82
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 7094.20

11141150 ARROYO GRANDE ABOVE PHOENIX CREEK, NEAR ARROYO GRANDE, CALIF.

LOCATION.--Lat 35°11'03", long 120°26'11", in Arroyo Grande Grant, San Luis Obispo County, at gaging station at county road bridge, 100 ft upstream from Phoenix Creek, and 8.8 miles northeast of Arroyo Grande.

DRAINAGE AREA.--13.5 sq mi.

PERIOD OF RECORD.--Water temeratures: October 1967 to September 1972.
Sediment records: Water year 1967 (partial-record station), October 1967 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 1,180 mg/l May 4; minimum daily, 1 mg/l on several days.
Sediment discharge: Maximum daily, 4.4 tons May 4; minimum daily, 0 tons on many days.

Period of record:
Sediment concentrations: Maximum daily, 49,300 mg/l Jan. 25, 1969; minimum daily, 1 mg/l on several days in 1967, 1968, and 1972.
Sediment discharge: Maximum daily, 69,700 tons Jan. 25, 1969; minimum daily, 0 tons on many days in 1967-68, 1970-72.

REMARKS.--Sediment concentration affected by earth-moving operations during period May 1-6.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	---	---	9.0	---	16.0	---	---	24.0	25.0	---	22.0
2	---	13.0	11.0	---	11.0	13.0	15.0	18.0	---	---	25.0	---
3	17.5	---	---	10.0	---	16.0	---	---	24.0	24.0	---	22.0
4	---	13.0	13.0	---	10.0	---	18.0	16.0	---	---	24.0	---
5	18.0	---	---	10.0	---	16.0	---	---	24.0	24.0	---	22.0
6	---	14.0	12.0	---	13.0	---	16.0	18.0	---	---	22.0	19.0
7	19.0	---	9.5	10.0	---	16.0	---	---	24.0	24.0	---	17.0
8	---	14.0	8.0	---	11.5	---	16.0	18.0	---	---	19.0	---
9	19.5	---	---	10.5	---	16.0	---	---	24.0	24.0	---	22.0
10	---	14.0	10.0	---	15.0	---	16.0	22.0	---	---	21.0	---
11	19.5	---	---	11.0	---	16.0	---	---	24.0	26.0	---	21.0
12	---	14.0	10.0	12.0	15.0	---	16.0	20.0	---	---	21.0	---
13	19.0	---	---	11.0	---	16.0	---	---	24.0	26.0	---	22.0
14	---	13.0	10.0	---	16.0	15.5	16.0	20.0	---	---	---	---
15	16.0	---	---	11.5	---	17.0	---	---	24.0	25.0	---	20.5
16	---	12.0	10.0	---	16.0	---	16.0	20.0	20.0	---	21.0	---
17	14.0	---	---	11.0	---	17.0	---	---	24.0	25.0	---	19.0
18	---	12.0	10.0	---	16.0	---	20.0	19.0	---	---	21.0	---
19	16.0	---	---	10.0	---	17.0	---	---	25.0	25.0	---	19.5
20	---	13.0	9.0	---	16.0	---	16.0	19.0	---	---	21.0	---
21	15.0	---	---	13.0	---	15.0	---	---	25.0	25.0	---	23.0
22	---	12.0	10.0	---	16.0	17.5	16.0	19.0	---	---	23.0	---
23	13.0	---	---	11.0	---	17.0	---	22.0	25.0	25.0	---	21.0
24	---	13.0	10.0	---	16.0	---	17.0	20.0	---	---	22.0	---
25	12.0	---	---	11.0	---	16.0	---	---	25.0	24.0	---	12.5
26	14.0	13.0	9.0	---	16.0	---	17.0	24.0	---	20.0	22.0	---
27	14.0	---	10.5	10.0	---	16.0	---	---	25.0	---	---	21.5
28	---	14.0	9.0	---	16.0	---	17.0	24.0	---	---	22.0	---
29	14.0	---	---	12.0	---	16.0	---	---	25.0	22.0	---	---
30	---	14.0	9.0	---	---	---	17.0	24.0	---	---	22.0	---
31	13.0	---	---	11.0	---	15.0	---	---	---	23.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
MAR.									
14...	1020	15.5	.61	40	.07	--	--	--	--
MAY									
04...	1310	16.0	1.9	3660	19	66	81	93	95
JUNE									
16...	1120	20.0	.46	33	.04	--	--	--	--

DATE	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .062 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .125 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 1.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 4.00 MM
MAR.								
14...	--	16	16	22	44	100	--	--
MAY								
04...	99	100	--	--	--	--	--	--
JUNE								
16...	--	21	29	100	--	--	--	--

11141150 ARROYO GRANDE ABOVE PHOENIX CREEK, NEAR ARROYO GRANDE, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.81	45	.10	1.2	40	.13	1.2	1	0
2	.79	30	.06	1.2	54	.17	1.2	2	.01
3	.67	13	.02	1.0	38	.10	1.3	3	.01
4	.61	8	.01	1.2	23	.07	1.4	4	.02
5	.61	6	.01	1.2	13	.04	1.2	7	.02
6	.61	4	.01	1.2	3	.01	1.2	12	.04
7	.57	3	0	1.2	4	.01	1.0	7	.02
8	.61	3	0	1.2	6	.02	.87	8	.02
9	.61	4	.01	1.1	10	.03	.87	8	.02
10	.61	10	.02	1.0	15	.04	.87	9	.02
11	.40	18	.02	1.2	14	.05	.87	7	.02
12	.40	14	.02	1.7	13	.06	1.0	5	.01
13	.24	10	.01	1.5	10	.04	.87	4	.01
14	.34	10	.01	1.3	2	.01	.87	4	.01
15	.37	9	.01	1.2	2	.01	.83	2	0
16	.44	5	.01	1.1	8	.02	.87	1	0
17	.46	2	0	1.1	10	.03	1.2	6	.02
18	.45	3	0	1.0	9	.02	1.3	7	.02
19	.46	5	.01	1.2	3	.01	1.0	7	.02
20	.47	4	.01	1.2	1	0	1.0	13	.04
21	.47	2	0	1.2	2	.01	.87	17	.04
22	1.2	10	.03	1.2	3	.01	2.8	27	.21
23	1.0	18	.05	1.2	3	.01	2.4	16	.10
24	1.0	60	.16	1.0	4	.01	3.1	20	.21
25	1.0	100	.27	1.0	3	.01	2.8	22	.17
26	1.0	2	.01	.99	1	0	2.2	9	.05
27	1.0	23	.06	1.0	1	0	4.1	98	1.2
28	1.0	28	.08	1.0	2	.01	3.1	6	.05
29	1.0	34	.09	1.1	2	.01	2.4	2	.01
30	1.0	30	.08	1.2	1	0	1.7	2	.01
31	1.2	26	.08	--	--	--	1.7	2	.01
TOTAL	21.40	--	1.25	34.89	--	.94	48.09	--	2.39

	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	1.7	6	.03	1.5	7	.03	1.0	4	.01
2	1.5	15	.06	1.6	2	.01	1.2	4	.01
3	1.7	22	.10	1.6	3	.01	1.2	8	.03
4	1.7	20	.09	1.6	4	.02	1.1	6	.02
5	1.7	14	.06	2.0	4	.02	1.1	5	.01
6	1.5	14	.06	1.7	5	.02	1.1	5	.01
7	1.5	22	.09	1.6	7	.03	.95	5	.01
8	1.5	25	.10	1.5	8	.03	.68	6	.01
9	1.7	20	.09	1.5	6	.02	.71	7	.01
10	1.5	12	.05	1.5	3	.01	.74	8	.02
11	1.5	5	.02	1.3	2	.01	.74	9	.02
12	1.7	14	.06	1.3	20	.07	.74	8	.02
13	1.5	18	.07	1.3	10	.04	.61	5	.01
14	1.7	8	.04	1.2	10	.03	.61	8	.01
15	1.7	2	.01	1.2	10	.03	.61	3	0
16	1.5	7	.03	1.2	9	.03	.78	2	0
17	1.5	15	.06	1.0	7	.02	.99	1	0
18	1.7	17	.08	1.1	4	.01	.95	3	.01
19	1.7	17	.08	1.1	4	.01	.87	9	.02
20	1.7	17	.08	1.2	5	.02	.84	11	.02
21	1.5	16	.06	1.0	3	.01	.87	10	.02
22	1.7	11	.05	1.1	2	.01	.88	12	.03
23	1.7	6	.03	1.0	2	.01	.96	20	.05
24	1.7	4	.02	.95	6	.02	1.0	4	.01
25	1.7	2	.01	.99	10	.03	1.0	3	.01
26	2.0	1	.01	1.0	13	.04	1.0	3	.01
27	2.1	15	.08	.92	8	.02	1.2	3	.01
28	1.7	5	.02	1.1	3	.01	1.2	2	.01
29	1.7	11	.05	1.2	2	.01	1.0	2	.01
30	1.7	43	.20	--	--	--	1.0	2	.01
31	1.7	23	.11	--	--	--	1.0	2	.01
TOTAL	51.4	--	1.90	37.26	--	.63	28.63	--	.43

11141150 ARROYO GRANDE ABOVE PHOENIX CREEK, NEAR ARROYO GRANDE, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1.0	2	.01	.42	447	.43	.40	4	0
2	1.0	1	0	.61	35	.06	.41	4	0
3	1.0	1	0	.68	420	1.0	.37	4	0
4	.87	10	.02	1.0	1180	4.4	.42	4	0
5	.87	6	.01	1.0	25	.07	.41	3	0
6	.87	2	0	1.5	259	1.8	.40	5	.01
7	.87	2	0	.87	4	.01	.46	7	.01
8	.74	3	.01	.74	7	.01	.50	7	.01
9	.74	3	.01	.74	7	.01	.50	8	.01
10	.87	3	.01	.74	7	.01	.50	7	.01
11	1.0	5	.01	.74	6	.01	.41	6	.01
12	1.0	13	.04	.74	5	.01	.39	6	.01
13	1.0	10	.03	.74	6	.01	.39	5	.01
14	.93	45	.11	.74	6	.01	.42	6	.01
15	.74	20	.04	.61	6	.01	.40	14	.02
16	.74	11	.02	.50	6	.01	.39	34	.04
17	.74	6	.01	.50	6	.01	.50	40	.05
18	.80	7	.02	.50	6	.01	.47	24	.03
19	.74	6	.01	.61	7	.01	.50	14	.02
20	.87	2	0	.56	12	.02	.46	11	.01
21	.87	3	.01	.47	8	.01	.50	8	.01
22	.87	9	.02	.43	6	.01	.50	7	.01
23	.61	5	.01	.42	8	.01	.56	6	.01
24	.61	1	0	.44	5	.01	.53	7	.01
25	.61	1	0	.40	5	.01	.53	8	.01
26	.61	1	0	.45	6	.01	.54	8	.01
27	.61	2	0	.42	8	.01	.53	7	.01
28	.61	3	0	.41	10	.01	.50	7	.01
29	.61	2	0	.40	7	.01	.40	8	.01
30	.50	2	0	.40	5	.01	.40	9	.01
31	--	--	--	.40	4	0	--	--	--
TOTAL	23.90	--	.40	19.18	--	8.01	13.69	--	.36

	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	.40	10	.01	.21	6	0	.18	2	0
2	.40	11	.01	.31	6	.01	.24	2	0
3	.39	12	.01	.40	8	.01	.24	2	0
4	.39	11	.01	.31	10	.01	.24	2	0
5	.63	18	.03	.31	8	.01	.24	2	0
6	.74	21	.04	.24	5	0	.19	2	0
7	.61	18	.03	.24	8	.01	.22	4	0
8	.49	15	.02	.24	11	.01	.24	6	0
9	.41	13	.01	.24	9	.01	.24	9	.01
10	.41	13	.01	.24	6	0	.27	6	0
11	.39	80	.08	.18	5	0	.28	3	0
12	.32	170	.15	.18	4	0	.31	2	0
13	.32	182	.16	.18	4	0	.28	2	0
14	.32	160	.14	.18	3	0	.29	4	0
15	.32	123	.11	.18	3	0	.29	5	0
16	.40	120	.13	.18	3	0	.29	7	.01
17	.40	150	.16	.18	2	0	.29	9	.01
18	.38	150	.15	.24	1	0	.28	6	0
19	.42	130	.15	.24	1	0	.28	4	0
20	.41	110	.12	.24	1	0	.26	5	0
21	.31	100	.08	.40	1	0	.26	6	0
22	.38	98	.10	.89	6	.03	.25	11	.01
23	.42	90	.10	.40	7	.01	.23	17	.01
24	.40	20	.02	.31	2	0	.26	11	.01
25	.40	10	.01	.24	5	0	.28	5	0
26	.35	6	.01	.18	8	0	.29	4	0
27	.40	6	.01	.18	7	0	.29	3	0
28	.40	6	.01	.18	2	0	.29	3	0
29	.40	6	.01	.18	2	0	.29	3	0
30	.40	6	.01	.18	2	0	.30	3	0
31	.30	6	0	.18	2	0	--	--	--
TOTAL	12.71	--	1.89	8.04	--	.11	7.89	--	.06

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 307.08
TOTAL-SEDIMENT DISCHARGE FOR YEAR (TONS) 18.37

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CALIF.

LOCATION.--Lat 35°13'48", long 120°28'22", in SE¼NE¼ sec.16, T.31 S., R.14 E., San Luis Obispo County, at gaging station 0.7 mile upstream from small right-bank tributary, 3.2 miles upstream from mouth, and 9.2 miles northeast of Arroyo Grande.

DRAINAGE AREA.--21.6 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1972 (discontinued).
Sediment records: October 1967 to September 1972 (discontinued).

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 249 mg/l Dec. 27; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 74 tons Dec. 27; minimum daily, 0 tons on many days.

Period of record:
Sediment concentrations: Maximum daily, 9,310 mg/l Jan. 19, 1969; minimum daily, 1 mg/l on many days in 1967-72.
Sediment discharge: Maximum daily, 30,100 tons Jan. 25, 1969; minimum daily, 0 tons on many days in 1968 and 1972.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	17.0	---	---	---	---	17.0	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	15.5	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	17.0
7	---	---	10.5	---	---	---	---	---	---	---	---	---
8	---	---	---	---	10.0	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	11.0	---	---	---	21.5	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	13.0	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	19.0	---	---	---
17	---	---	---	---	---	---	20.0	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	15.0	---	10.5	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	17.5	---	---	---	---	---	---
23	---	---	---	---	---	---	---	21.5	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	10.5	---	---	---	---	---	---	---	---	---
28	---	---	10.0	---	---	---	---	---	---	---	---	---
29	---	---	10.5	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	8	.03	3.7	8	.08	2.8	4	.03
2	1.4	8	.03	3.2	8	.07	2.7	4	.03
3	1.4	8	.03	3.0	8	.06	2.7	3	.02
4	1.3	8	.03	2.9	7	.05	2.7	3	.02
5	1.3	8	.03	2.9	7	.05	2.7	3	.02
6	1.3	8	.03	2.9	7	.05	2.7	3	.02
7	1.3	8	.03	3.0	6	.05	2.7	3	.02
8	1.3	8	.03	3.0	6	.05	2.7	3	.02
9	1.3	8	.03	3.0	5	.04	2.7	3	.02
10	1.3	8	.03	2.7	5	.04	2.7	3	.02
11	1.4	8	.03	3.0	8	.06	2.7	3	.02
12	1.6	8	.03	6.0	12	.20	2.7	3	.02
13	1.8	8	.04	4.6	8	.10	2.5	3	.02
14	2.3	8	.05	4.3	8	.09	2.5	4	.03
15	2.0	8	.04	3.7	7	.07	2.5	4	.03
16	2.0	9	.05	3.7	7	.07	2.5	4	.03
17	2.1	8	.05	3.2	7	.06	2.5	4	.03
18	2.0	8	.04	3.0	7	.06	2.5	4	.03
19	2.1	8	.05	3.2	7	.06	2.5	4	.03
20	1.8	8	.04	3.7	6	.06	2.5	4	.03
21	1.6	8	.03	3.7	6	.06	2.5	4	.03
22	1.6	8	.03	3.2	6	.05	6.0	9	.17
23	1.8	8	.04	3.2	6	.05	7.1	7	.13
24	2.0	8	.04	2.9	6	.05	7.5	8	.16
25	2.0	8	.04	2.9	5	.04	15	14	.78
26	2.0	8	.04	2.8	5	.04	17	17	.91
27	2.0	8	.04	2.8	5	.04	76	249	74
28	2.1	8	.05	2.8	5	.04	26	20	1.4
29	2.1	8	.05	2.8	4	.03	12	7	.23
30	3.2	10	.09	2.8	4	.03	7.5	4	.08
31	3.7	9	.09	--	--	--	6.0	4	.06
TOTAL	56.5	--	1.26	98.6	--	1.80	235.1	--	78.44

	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	5.1	4	.06	3.7	4	.04	3.0	1	.01
2	4.9	4	.05	3.4	4	.04	2.9	1	.01
3	4.3	4	.05	3.4	4	.04	2.9	1	.01
4	4.0	4	.04	3.4	4	.04	2.9	1	.01
5	4.0	4	.04	5.7	6	.09	2.9	1	.01
6	3.7	4	.04	6.7	5	.09	2.7	1	.01
7	3.7	4	.04	5.7	2	.03	2.7	1	.01
8	3.7	4	.04	5.1	1	.01	2.5	1	.01
9	3.7	4	.04	4.9	1	.01	2.5	1	.01
10	3.7	4	.04	4.6	1	.01	2.7	1	.01
11	3.7	4	.04	4.3	1	.01	2.7	1	.01
12	3.4	4	.04	4.3	1	.01	2.7	1	.01
13	3.4	4	.04	4.0	1	.01	2.7	1	.01
14	3.2	4	.03	3.7	1	.01	2.7	1	.01
15	3.2	4	.03	3.7	1	.01	2.7	1	.01
16	3.2	4	.03	3.7	1	.01	2.5	1	.01
17	3.2	4	.03	3.4	1	.01	2.5	1	.01
18	3.2	4	.03	3.4	1	.01	2.7	1	.01
19	3.2	4	.03	3.4	1	.01	2.7	1	.01
20	3.0	4	.03	3.4	1	.01	2.5	1	.01
21	3.0	4	.03	3.2	1	.01	2.7	1	.01
22	3.0	4	.03	3.2	1	.01	2.7	1	.01
23	3.0	4	.03	3.4	1	.01	2.5	1	.01
24	3.0	4	.03	3.2	1	.01	2.5	1	.01
25	3.0	4	.03	3.2	1	.01	2.5	1	.01
26	3.0	4	.03	3.2	1	.01	2.3	1	.01
27	4.6	7	.09	3.0	1	.01	2.5	1	.01
28	6.0	9	.15	3.0	1	.01	2.5	1	.01
29	4.9	5	.07	3.0	1	.01	2.7	1	.01
30	4.3	4	.05	--	--	--	2.7	1	.01
31	4.0	4	.04	--	--	--	2.7	1	.01
TOTAL	115.3	--	1.35	112.3	--	.59	82.4	--	.31

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	2.7	1	.01	2.0	6	.03	1.5	4	.02
2	2.7	1	.01	2.0	5	.03	1.4	4	.02
3	2.5	1	.01	2.0	5	.03	1.4	5	.02
4	2.7	1	.01	2.0	5	.03	1.4	5	.02
5	2.7	1	.01	2.1	5	.03	1.4	5	.02
6	2.5	1	.01	2.1	5	.03	1.4	5	.02
7	2.5	1	.01	2.3	4	.02	1.5	6	.02
8	2.3	1	.01	2.1	4	.02	1.6	6	.03
9	2.3	1	.01	2.1	4	.02	1.6	6	.03
10	2.3	1	.01	2.1	4	.02	1.5	6	.02
11	3.0	6	.05	2.0	4	.02	1.4	7	.03
12	3.0	6	.05	2.0	4	.02	1.3	7	.02
13	2.9	6	.05	1.8	4	.02	1.3	7	.02
14	2.3	7	.04	1.8	4	.02	1.3	7	.02
15	2.1	7	.04	1.8	4	.02	1.3	8	.03
16	2.1	8	.05	2.0	4	.02	1.3	8	.03
17	2.1	8	.05	2.0	3	.02	1.3	8	.03
18	2.1	8	.05	2.0	3	.02	1.4	8	.03
19	2.1	8	.05	2.3	3	.02	1.4	7	.03
20	2.1	8	.05	2.3	3	.02	1.3	7	.02
21	2.1	8	.05	2.1	3	.02	1.3	7	.02
22	2.1	7	.04	2.1	3	.02	1.3	7	.02
23	2.3	7	.04	1.8	3	.01	1.5	7	.03
24	2.3	7	.04	1.8	3	.01	1.4	6	.02
25	2.1	7	.04	2.0	3	.02	1.4	6	.02
26	2.1	7	.04	1.8	3	.01	1.4	6	.02
27	2.0	6	.03	1.8	3	.01	1.4	6	.02
28	2.0	6	.03	1.6	3	.01	1.3	6	.02
29	2.0	6	.03	1.6	4	.02	1.2	5	.02
30	2.0	6	.03	1.5	4	.02	1.2	5	.02
31	--	--	--	1.5	4	.02	--	--	--
TOTAL	70.0	--	.95	60.4	--	.63	41.4	--	.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	1.3	5	.02	.82	3	.01	.95	1	0
2	1.3	5	.02	.81	3	.01	1.0	1	0
3	1.3	4	.01	.83	3	.01	1.1	1	0
4	1.2	4	.01	.89	3	.01	1.1	1	0
5	1.2	4	.01	.88	3	.01	1.2	1	0
6	1.2	4	.01	.76	3	.01	1.1	1	0
7	1.2	3	.01	.77	3	.01	1.1	1	0
8	1.2	3	.01	.64	3	.01	1.3	1	0
9	1.2	3	.01	.73	3	.01	1.3	1	0
10	1.2	2	.01	.63	6	.01	1.3	1	0
11	1.2	2	.01	.65	4	.01	1.3	1	0
12	1.2	2	.01	.63	4	.01	1.2	1	0
13	1.1	2	.01	.67	4	.01	1.1	1	0
14	1.1	2	.01	.62	4	.01	1.2	1	0
15	1.1	2	.01	.56	4	.01	1.1	1	0
16	1.2	2	.01	.60	4	.01	1.1	1	0
17	1.2	2	.01	.57	4	.01	1.1	1	0
18	1.1	2	.01	.71	4	.01	1.1	1	0
19	1.2	2	.01	.78	4	.01	1.1	1	0
20	1.3	2	.01	.70	4	.01	1.1	1	0
21	1.3	2	.01	.59	2	0	1.1	1	0
22	1.2	3	.01	.65	2	0	1.1	1	0
23	1.2	3	.01	.65	2	0	1.1	1	0
24	1.2	3	.01	.58	2	0	1.1	1	0
25	1.1	3	.01	.66	2	0	1.1	1	0
26	1.1	3	.01	.75	2	0	1.0	1	0
27	1.0	3	.01	.79	2	0	1.0	1	0
28	.96	3	.01	.79	2	0	1.0	1	0
29	.91	3	.01	.71	2	0	1.0	1	0
30	1.0	3	.01	.74	2	0	1.0	1	0
31	.91	3	.01	.95	2	.01	[illegible]	--	--
TOTAL	35.88	--	.33	22.11	--	.21	33.35	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 963.34
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 86.56

11141280 LOPEZ CREEK NEAR ARROYO GRANDE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC.										
27...	1735	10.5	47	54	6.9	74	75	78	87	100
28...	1100	10.0	23	23	1.4	65	66	68	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	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.												
14...	0915	13.0	4	2.7	1	9	19	29	39	55	74	100

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.								
27...	1735	10.5	3	47	23	2.6	1	3
28...	1105	10.0	3	23	21	6.3	--	--

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.							
27...	6	10	15	26	39	57	100
28...	6	25	48	68	90	100	--

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 mile upstream from Post Creek, and 2.6 miles southeast of town of Big Sur.
DRAINAGE AREA.--46.5 sq mi.
PERIOD OF RECORD.--Water temperatures: October 1965 to September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 20.0°C on several days during June to August; minimum, 7.0°C on several days during December to February.
Period of record:
Water temperatures: Maximum (1965-67, 1968-72), 21.0°C Aug. 9-11, 1971; minimum (1965-66, 1967-72), 5.0°C Dec. 15, 1967.
REMARKS.--Recorder stopped Jan. 24-28, Feb. 10 to Mar. 1, Mar. 19 to May 21, July 12 to Aug. 6. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	14.5	13.0	10.0	10.0	11.0	10.0	9.5	9.0	9.0	8.0	--	--
2	14.0	13.0	10.0	10.0	11.0	10.0	10.0	9.0	8.5	7.5	13.0	11.0
3	14.0	13.0	10.0	10.0	11.0	10.0	10.0	10.0	8.0	7.5	13.5	12.5
4	14.0	13.5	11.0	10.0	10.0	9.5	10.0	9.0	8.0	7.0	14.0	13.0
5	14.5	13.5	11.0	10.0	9.5	9.0	9.0	8.0	7.5	7.5	14.0	13.0
6	15.0	14.0	11.0	10.5	10.0	9.5	8.5	8.0	9.0	7.5	14.0	13.0
7	15.0	14.5	11.0	10.5	10.5	9.5	8.5	8.0	11.0	9.0	14.5	13.0
8	15.5	14.5	11.0	10.5	9.0	8.5	8.5	7.0	11.0	11.0	13.5	13.5
9	15.5	15.0	11.0	10.5	9.0	8.5	8.5	7.0	11.5	10.0	13.5	12.5
10	16.0	15.0	11.0	10.5	9.0	8.5	9.0	8.0	--	--	14.0	13.0
11	16.0	15.0	12.5	11.0	9.0	8.5	9.0	8.5	--	--	14.0	13.0
12	15.5	14.5	12.5	12.5	9.0	8.5	10.0	9.0	--	--	14.5	13.5
13	15.5	15.0	12.5	12.0	9.0	8.5	10.0	9.0	--	--	14.5	14.0
14	15.5	15.0	12.0	11.0	8.5	8.0	10.0	9.0	--	--	14.5	13.5
15	15.0	14.0	11.0	10.0	8.5	8.5	9.5	9.0	--	--	14.5	13.0
16	14.0	13.0	10.5	10.0	8.5	7.5	9.5	9.0	--	--	14.0	13.5
17	13.0	12.0	10.5	9.0	7.5	7.0	9.5	9.0	--	--	14.5	13.5
18	12.5	12.0	10.0	10.0	8.0	7.5	10.0	9.5	--	--	14.0	14.0
19	12.0	11.5	10.0	10.0	8.0	7.5	10.0	10.0	--	--	--	--
20	11.5	10.5	10.0	9.5	7.5	7.0	10.5	10.0	--	--	--	--
21	13.0	12.5	9.5	9.0	8.0	7.0	11.0	10.0	--	--	--	--
22	13.0	12.5	9.5	9.0	11.5	8.0	11.0	11.0	--	--	--	--
23	13.0	12.0	9.5	9.5	11.5	11.0	11.0	9.0	--	--	--	--
24	12.5	12.0	10.0	9.5	12.0	11.5	--	--	--	--	--	--
25	12.0	11.0	10.0	10.0	12.0	12.0	--	--	--	--	--	--
26	12.0	11.5	10.0	9.0	12.0	11.0	--	--	--	--	--	--
27	12.0	12.0	11.0	10.0	11.0	10.5	--	--	--	--	--	--
28	12.0	10.5	11.5	11.0	11.0	10.0	--	--	--	--	--	--
29	10.5	10.0	12.0	11.5	10.5	10.0	9.5	9.0	--	--	--	--
30	10.0	9.0	12.0	11.0	10.0	9.0	9.0	8.5	--	--	--	--
31	10.0	10.0	--	--	9.5	9.0	9.0	8.5	--	--	--	--
MONTH	16.0	9.0	12.5	9.0	12.0	7.0	11.0	7.0	--	--	--	--

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	--	--	--	--	18.0	16.5	19.5	18.0	--	--	19.0	18.0
2	--	--	--	--	17.5	16.5	18.5	17.5	--	--	18.0	17.5
3	--	--	--	--	17.5	16.5	18.0	17.5	--	--	19.0	18.0
4	--	--	--	--	18.0	16.5	18.0	17.0	--	--	18.5	18.0
5	--	--	--	--	18.5	17.0	18.5	16.5	--	--	19.0	18.0
6	--	--	--	--	18.5	17.5	18.5	16.5	--	--	19.0	18.0
7	--	--	--	--	18.5	17.5	19.0	16.5	19.0	18.0	18.5	17.0
8	--	--	--	--	17.5	16.5	19.5	18.0	19.5	18.0	18.0	16.5
9	--	--	--	--	17.0	16.5	20.0	18.0	20.0	18.5	17.5	17.0
10	--	11.5	--	--	16.5	15.5	20.0	18.0	20.0	18.5	17.0	16.0
11	--	--	--	--	17.0	15.5	20.0	18.0	20.0	18.5	16.5	16.0
12	--	--	--	--	17.5	16.0	--	--	20.0	18.5	16.0	15.5
13	--	--	--	--	18.0	16.5	--	--	19.0	18.0	16.0	15.0
14	--	--	--	--	18.0	16.5	--	--	19.0	17.0	16.0	15.5
15	--	--	--	--	18.5	17.0	--	--	18.0	17.0	16.0	15.5
16	--	--	--	--	19.0	17.0	--	--	18.0	17.0	16.0	15.0
17	--	--	--	--	18.5	16.5	--	--	18.5	17.5	15.5	14.5
18	--	--	--	--	18.0	16.5	--	--	18.0	17.5	15.5	15.0
19	--	--	--	--	17.0	16.5	--	--	18.0	17.0	16.0	15.0
20	--	--	--	--	18.0	16.5	--	--	18.5	17.0	16.0	15.0
21	--	--	--	--	18.0	16.5	--	--	19.5	18.0	16.0	15.0
22	--	--	15.5	13.0	17.5	17.0	--	--	20.0	18.5	16.5	16.0
23	--	--	15.5	14.5	17.5	17.0	--	--	20.0	18.5	16.0	15.0
24	--	--	15.5	14.0	17.0	16.0	--	--	19.5	18.0	15.5	15.0
25	--	--	15.0	14.0	17.0	16.0	--	--	19.0	18.0	15.0	14.0
26	--	--	15.0	14.0	17.5	16.5	--	--	19.0	18.0	16.0	15.0
27	--	--	16.0	14.5	17.5	16.5	--	--	18.5	18.0	16.5	16.0
28	--	--	17.0	15.0	17.5	16.5	--	--	18.5	17.0	17.0	16.5
29	--	--	18.0	16.0	19.0	17.0	--	--	19.0	17.0	17.5	17.0
30	--	--	18.0	16.5	20.0	18.0	--	--	19.0	18.0	17.0	17.0
31	--	--	18.0	16.5	--	--	--	--	19.0	18.5	--	--
MONTH	--	--	--	--	20.0	15.5	--	--	20.0	17.0	19.0	14.0

11147040 SANTA RITA CREEK TRIBUTARY NEAR TEMPLETON, CALIF.

LOCATION.--Lat 35°32'03", long 120°50'47", in Asuncion Grant, San Luis Obispo County, at gaging station at highway bridge, 0.2 mile downstream from small left-bank tributary, and 8.6 miles west of Templeton.

DRAINAGE AREA.--2.95 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1967 to September 1972 (discontinued).
Sediment records: October 1967 to September 1972 (discontinued).

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 1,180 mg/l Dec. 25; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 453 tons Dec. 25; minimum daily, 0 tons on many days.

Period of record:
Sediment concentrations: Maximum daily, 5,710 mg/l Jan. 19, 1969; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 9,770 tons Jan. 19, 1969; minimum daily, 0 tons on many days each year.

REMARKS.--No flow Oct. 1 to Dec. 20, Apr. 26 to Sept. 30. Sediment table omitted for period July 1 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	8.0	---	---	---	---	---	---	---	---
2	---	---	---	8.0	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	10.0	---	---	---	---	---	---	---	---	---
25	---	---	9.5	---	---	---	---	---	---	---	---	---
26	---	---	7.5	---	---	---	---	---	---	---	---	---
27	---	---	8.0	---	---	---	---	---	---	---	---	---
28	---	---	7.0	---	---	---	---	---	---	---	---	---
29	---	---	7.5	---	---	---	---	---	---	---	---	---
30	---	---	6.0	---	---	---	---	---	---	---	---	---
31	---	---	5.5	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11147040 SANTA RITA CREEK TRIBUTARY NEAR TEMPLETON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							.05	3	0
22							7.2	380	19
23							.11	104	.10
24							14	296	26
25							67	1180	453
26							26	260	118
27							127	721	336
28							26	99	8.9
29							2.7	22	.16
30							1.6	6	.03
31							1.2	4	.01
TOTAL	0	--	0	0	--	0	272.86	--	961.20

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.95	4	.01	.26	6	0	.17	3	0
2	.70	5	.01	.20	5	0	.17	3	0
3	.50	4	.01	.14	5	0	.17	3	0
4	.39	3	0	.14	4	0	.17	3	0
5	.30	3	0	37	262	35	.17	3	0
6	.26	3	0	4.0	37	.62	.17	3	0
7	.23	3	0	.78	14	.03	.17	3	0
8	.20	3	0	.70	9	.02	.17	3	0
9	.17	3	0	.63	6	.01	.17	3	0
10	.17	3	0	.50	5	.01	.12	3	0
11	.14	3	0	.39	4	0	.12	3	0
12	.14	3	0	.30	3	0	.12	3	0
13	.14	3	0	.26	3	0	.12	3	0
14	.14	3	0	.23	3	0	.12	3	0
15	.12	3	0	.20	3	0	.12	3	0
16	.12	3	0	.20	3	0	.10	3	0
17	.12	3	0	.20	3	0	.10	3	0
18	.12	3	0	.20	3	0	.10	3	0
19	.12	3	0	.17	3	0	.09	3	0
20	.10	3	0	.17	3	0	.09	3	0
21	.10	3	0	.17	3	0	.09	3	0
22	.10	3	0	.17	3	0	.08	3	0
23	.09	3	0	.17	3	0	.08	3	0
24	.10	3	0	.17	3	0	.08	3	0
25	.10	3	0	.17	3	0	.07	3	0
26	.10	3	0	.17	3	0	.07	3	0
27	.78	22	.07	.17	3	0	.07	3	0
28	1.4	12	.04	.17	3	0	.06	3	0
29	.86	9	.02	.17	3	0	.06	3	0
30	.50	7	.01	--	--	--	.06	3	0
31	.34	6	.01	--	--	--	.05	3	0
TOTAL	9.60	--	.18	48.20	--	35.69	3.50	--	0

11147040 SANTA RITA CREEK TRIBUTARY NEAR TEMPLETON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.05	3	0						
2	.05	3	0						
3	.05	3	0						
4	.05	3	0						
5	.05	3	0						
6	.04	3	0						
7	.04	3	0						
8	.04	3	0						
9	.04	3	0						
10	.04	3	0						
11	.06	3	0						
12	.09	3	0						
13	.09	3	0						
14	.08	3	0						
15	.07	3	0						
16	.07	3	0						
17	.06	3	0						
18	.05	3	0						
19	.04	3	0						
20	.04	3	0						
21	.03	3	0						
22	.02	3	0						
23	.01	3	0						
24	.01	3	0						
25	.01	3	0						
26	0	0	0						
27	0	0	0						
28	0	0	0						
29	0	0	0						
30	0	0	0						
31	--	--	--						
TOTAL	1.18	--	0	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 335.34
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 997.07

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.										
24...	1500	10.0	14	442	17	49	57	63	68	72
25...	0830	9.5	411	5440	6040	50	61	74	87	94
25...	1130	9.0	63	940	160	55	62	80	87	90
27...	0830	8.0	116	425	133	37	49	63	73	79

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
DEC.									
24...	76	--	82	--	89	--	98	--	100
25...	--	98	--	99	--	100	--	--	--
25...	--	98	--	99	--	99	--	100	--
27...	--	93	--	95	--	99	--	100	--

11147070 SANTA RITA CREEK NEAR TEMPLETON, CALIF.

LOCATION.--Lat 35°31'26", long 120°45'54", in Asuncion Grant, San Luis Obispo County, at gaging station 1.6 miles upstream from mouth, and 4 miles west of Templeton.

DRAINAGE AREA.--18.2 sq mi.

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

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 870 mg/l Dec. 25; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 489 tons Dec. 27; minimum daily, 0 tons on many days.

Period of record:
Sediment concentrations: Maximum daily, 5,470 mg/l Jan. 19, 1969; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 30,500 tons Jan. 19, 1969; minimum daily, 0 tons on many days each year.

REMARKS.--No flow Oct. 1 to Dec. 21, May 18, May 21 to Sept. 30. Sediment table omitted for period July 1 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	4.5	7.0	12.5	18.0	22.0	---	---	---	---
2	---	---	---	4.5	---	---	---	---	---	---	---	---
3	---	---	---	4.0	7.0	12.0	20.0	---	---	---	---	---
4	---	---	---	4.0	9.0	---	---	22.0	---	---	---	---
5	---	---	---	4.0	8.0	12.5	14.0	---	---	---	---	---
6	---	---	---	4.5	9.0	---	---	---	---	---	---	---
7	---	---	---	4.0	9.0	14.0	14.5	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	4.5	9.5	14.5	15.0	22.0	---	---	---	---
10	---	---	---	5.0	---	---	---	---	---	---	---	---
11	---	---	---	4.5	10.0	---	13.5	---	---	---	---	---
12	---	---	---	5.0	---	15.0	13.5	---	---	---	---	---
13	---	---	---	5.0	10.0	---	13.0	---	---	---	---	---
14	---	---	---	4.0	11.0	15.0	---	---	---	---	---	---
15	---	---	---	4.0	---	---	13.5	---	---	---	---	---
16	---	---	---	---	12.0	---	---	---	---	---	---	---
17	---	---	---	5.5	---	---	---	24.0	---	---	---	---
18	---	---	---	---	12.0	17.5	12.0	---	---	---	---	---
19	---	---	---	7.0	---	---	---	---	---	---	---	---
20	---	---	---	---	11.0	17.0	11.0	---	---	---	---	---
21	---	---	---	8.0	---	---	---	---	---	---	---	---
22	---	---	12.5	8.5	12.0	13.5	12.0	---	---	---	---	---
23	---	---	9.0	---	---	10.0	---	---	---	---	---	---
24	---	---	9.5	8.0	12.5	12.0	---	---	---	---	---	---
25	---	---	9.5	---	---	---	20.0	---	---	---	---	---
26	---	---	7.0	7.0	13.0	13.5	---	---	---	---	---	---
27	---	---	7.5	6.0	---	---	20.0	---	---	---	---	---
28	---	---	7.0	7.0	13.0	14.5	---	---	---	---	---	---
29	---	---	6.0	---	---	---	22.0	---	---	---	---	---
30	---	---	6.0	7.0	---	15.5	---	---	---	---	---	---
31	---	---	5.5	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11147070 SANTA RITA CREEK NEAR TEMPLETON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							0	0	0
22							3.4	592	23
23							5.0	777	20
24							10	284	19
25							53	870	200
26							14	258	13
27							169	845	489
28							58	130	20
29							21	102	5.9
30							17	120	5.5
31							14	55	2.1
TOTAL	0	--	0	0	--	0	364.4	--	797.5

	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	13	55	1.9	1.4	1	0	1.0	3	.01
2	12	35	1.1	1.2	2	.01	.89	4	.01
3	12	85	2.8	1.0	2	.01	.89	5	.01
4	11	30	.89	1.0	2	.01	.89	4	.01
5	10	50	1.4	38	172	29	.89	2	0
6	9.7	80	2.1	23	153	11	.89	2	0
7	8.8	70	1.7	9.3	48	1.2	.75	2	0
8	8.0	12	.26	6.2	18	.30	.75	2	0
9	6.6	8	.14	4.8	6	.08	.62	5	.01
10	2.9	8	.06	3.8	2	.02	.51	2	0
11	1.9	6	.03	3.1	2	.02	.51	2	0
12	1.7	2	.01	2.7	2	.01	.51	2	0
13	1.2	4	.01	2.5	2	.01	.51	2	0
14	1.0	8	.02	2.3	3	.02	.51	2	0
15	.89	5	.01	2.1	2	.01	.51	2	0
16	.75	5	.01	1.9	2	.01	.33	2	0
17	.75	6	.01	1.7	3	.01	.33	2	0
18	.62	6	.01	1.7	5	.02	.33	2	0
19	.62	4	.01	1.5	5	.02	.33	1	0
20	.62	4	.01	1.5	5	.02	.33	1	0
21	.62	4	.01	1.4	5	.02	.33	1	0
22	.62	2	0	1.5	6	.02	.26	2	0
23	.62	2	0	1.4	5	.02	.26	1	0
24	.51	3	0	1.4	3	.01	.26	1	0
25	.51	3	0	1.2	4	.01	.21	1	0
26	.62	2	0	1.2	6	.02	.21	1	0
27	4.2	33	.61	1.2	5	.02	.16	2	0
28	5.9	29	.46	1.0	4	.01	.16	2	0
29	2.7	5	.04	1.0	3	.01	.12	2	0
30	1.9	2	.01	--	--	--	.12	2	0
31	1.5	2	.01	--	--	--	.12	3	0
TOTAL	123.75	--	13.62	122.0	--	41.92	14.49	--	.05

11147070 SANTA RITA CREEK NEAR TEMPLETON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.12	7	0	.09	4	0			
2	.12	5	0	.10	4	0			
3	.12	4	0	.10	4	0			
4	.12	4	0	.07	4	0			
5	.12	5	0	.07	3	0			
6	.12	10	0	.06	3	0			
7	.11	15	0	.05	3	0			
8	.10	14	0	.05	3	0			
9	.11	14	0	.04	3	0			
10	.11	10	0	.03	3	0			
11	.37	53	.07	.03	2	0			
12	.81	103	.23	.02	2	0			
13	1.5	102	.42	.02	2	0			
14	.61	32	.06	.02	2	0			
15	.43	7	.01	.01	2	0			
16	.36	6	.01	.01	1	0			
17	.33	6	.01	.01	1	0			
18	.26	6	0	0	0	0			
19	.24	4	0	.01	1	0			
20	.21	2	0	.01	1	0			
21	.18	3	0	0	0	0			
22	.16	4	0	0	0	0			
23	.16	4	0	0	0	0			
24	.18	4	0	0	0	0			
25	.15	5	0	0	0	0			
26	.12	4	0	0	0	0			
27	.11	4	0	0	0	0			
28	.10	4	0	0	0	0			
29	.09	5	0	0	0	0			
30	.09	4	0	0	0	0			
31	--	--	--	0	0	0			
TOTAL	7.61	--	.81	.80	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 633.05
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 853.90

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.									
23...	0600	9.5	6.6	1400	25	28	35	46	58
23...	1025	9.0	4.2	323	3.7	60	65	66	68
25...	1445	9.5	57	1520	234	70	81	93	96
26...	1000	7.0	11	199	5.9	--	--	--	--
27...	0545	7.5	230	827	514	54	57	76	86
27...	1615	8.0	163	581	256	41	51	61	71
27...	2100	8.0	129	514	179	47	57	71	83
30...	1030	6.0	17	137	6.3	--	--	--	--
APR.									
12...	0915	13.5	.75	115	.23	--	--	--	--

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
DEC.									
23...	73	90	--	97	--	100	--	--	--
23...	71	80	--	92	--	100	--	--	--
25...	99	--	100	--	--	--	--	--	--
26...	--	68	--	81	--	99	--	100	--
27...	96	--	98	--	98	--	99	--	100
27...	77	84	--	85	--	90	--	100	--
27...	89	--	94	--	95	--	96	--	100
30...	--	--	90	--	92	--	100	--	--
APR.									
12...	--	--	93	--	98	--	100	--	--

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 miles south of Bryson.

DRAINAGE AREA.--156 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1972.
Sediment records: October 1971 to September 1972.
Published as sta 11148800 "near Bryson" in 1958-59, 1960-64, 1965-71.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 512 mg/l Dec. 25; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 6,670 tons Dec. 25; minimum daily, 0 tons on many days.

REMARKS.--No flow Oct. 1 to Nov. 14, June 28 to Sept. 30. Sediment table omitted for period July 1 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	7.0	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	5.0	10.0	---	---	---	---	---	---	---
6	---	---	9.0	---	---	---	---	---	---	---	---	---
7	---	---	---	5.0	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	10.0	---	---	---	---	---	---	---
10	---	---	---	5.0	---	20.0	---	---	---	---	---	---
11	---	---	---	4.0	10.0	---	16.0	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	5.5	---	20.0	---	---	---	---	---	---
14	---	---	---	---	9.5	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	5.0	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	9.0	---	---	---	---	---	---	---	---
22	---	---	---	---	---	19.0	---	---	---	---	---	---
23	---	---	12.0	---	---	---	---	---	---	---	---	---
24	---	---	---	6.0	11.0	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	9.0	---	---	---	---	---	---	---	---	---
27	---	---	8.0	7.0	---	---	---	---	---	---	---	---
28	---	---	9.0	---	---	21.0	---	---	---	---	---	---
29	---	---	7.0	---	10.0	---	---	---	---	---	---	---
30	---	---	7.0	---	---	---	---	---	---	---	---	---
31	---	---	7.0	7.0	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1	0
2				0	0	0	.10	2	0
3				0	0	0	14	3	.18
4				0	0	0	15	3	.12
5				0	0	0	10	2	.05
6				0	0	0	7.9	1	.02
7				0	0	0	5.5	1	.01
8				0	0	0	3.5	1	.01
9				0	0	0	3.4	1	.01
10				0	0	0	3.3	1	.01
11				0	0	0	3.2	1	.01
12				0	0	0	3.6	2	.02
13				0	0	0	8.6	3	.10
14				0	0	0	16	3	.13
15				.01	1	0	11	2	.06
16				.01	1	0	8.6	2	.05
17				.01	1	0	7.4	2	.04
18				.01	1	0	6.5	2	.04
19				.01	1	0	5.8	2	.03
20				.01	1	0	5.3	2	.03
21				.02	1	0	5.7	3	.05
22				.02	1	0	1260	204	1210
23				.03	1	0	476	115	198
24				.03	1	0	992	115	409
25				.03	1	0	3530	512	6670
26				.02	1	0	1150	115	641
27				.02	1	0	2370	147	1400
28				.02	1	0	1010	17	46
29				.02	1	0	448	7	8.5
30				.02	1	0	282	3	2.3
31				--	--	--	205	3	1.7
TOTAL	0	--	0	.29	--	0	11867.40	--	10587.47

	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	158	3	1.3	56	2	.30	34	1	.09
2	130	1	.35	52	2	.28	32	1	.09
3	111	1	.30	49	2	.26	32	1	.09
4	94	1	.25	47	2	.25	32	1	.09
5	83	1	.22	462	44	57	29	2	.16
6	76	1	.21	463	8	10	28	2	.15
7	70	2	.38	264	7	5.0	27	2	.15
8	64	2	.35	192	6	3.1	26	2	.14
9	59	2	.32	156	3	1.3	24	2	.13
10	55	1	.15	131	2	.71	25	2	.14
11	52	3	.42	112	2	.60	25	2	.14
12	50	3	.41	97	2	.52	23	2	.12
13	48	2	.26	87	2	.47	23	2	.12
14	45	2	.24	80	2	.43	22	2	.12
15	43	2	.23	73	2	.39	21	2	.11
16	41	3	.33	68	2	.37	20	2	.11
17	40	4	.43	64	2	.35	20	2	.11
18	38	4	.41	61	2	.33	18	2	.10
19	37	3	.30	56	2	.30	18	2	.10
20	35	2	.19	53	2	.29	17	2	.09
21	34	2	.18	51	2	.28	15	2	.08
22	33	2	.18	50	2	.27	16	2	.09
23	32	2	.17	47	2	.25	15	2	.08
24	31	1	.08	45	3	.36	15	2	.08
25	31	1	.08	43	2	.23	16	3	.13
26	36	1	.10	41	2	.22	15	3	.12
27	81	15	7.0	39	2	.21	14	3	.11
28	128	7	2.4	37	2	.20	14	4	.15
29	80	2	.43	35	1	.09	14	3	.11
30	66	2	.36	--	--	--	14	2	.08
31	60	2	.32	--	--	--	14	2	.08
TOTAL	1941	--	18.35	3011	--	84.36	658	--	3.46

11148900 NACIMIENTO RIVER BELOW SAPAQUE CREEK, NEAR BRYSON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	14	2	.08	8.9	1	.02	.94	1	0
2	13	2	.07	8.9	1	.02	.78	1	0
3	13	2	.07	8.1	1	.02	.53	1	0
4	13	2	.07	7.6	1	.02	.41	1	0
5	13	1	.04	7.3	1	.02	.32	1	0
6	13	1	.04	8.1	1	.02	.21	1	0
7	14	1	.04	8.1	1	.02	.20	1	0
8	13	1	.04	8.1	1	.02	.18	1	0
9	11	1	.03	7.7	1	.02	.14	1	0
10	11	1	.03	7.5	1	.02	.11	1	0
11	24	3	.19	7.6	1	.02	.10	1	0
12	49	2	.26	7.0	1	.02	.11	1	0
13	33	2	.18	6.2	1	.02	.09	1	0
14	30	2	.16	5.4	1	.01	.08	1	0
15	23	2	.12	5.0	1	.01	.07	1	0
16	20	2	.11	4.4	1	.01	.05	1	0
17	18	2	.10	4.0	1	.01	.04	1	0
18	16	2	.09	3.7	1	.01	.04	1	0
19	15	2	.08	3.9	1	.01	.03	1	0
20	14	2	.08	4.5	1	.01	.02	1	0
21	13	2	.07	5.4	1	.01	.02	1	0
22	13	2	.07	5.3	1	.01	.01	1	0
23	13	2	.07	5.1	1	.01	.02	1	0
24	12	2	.06	4.3	1	.01	.02	1	0
25	12	2	.06	3.9	1	.01	.01	1	0
26	12	2	.06	3.6	1	.01	.01	1	0
27	12	2	.06	3.4	1	.01	.01	1	0
28	11	2	.06	2.9	1	.01	0	0	0
29	9.9	2	.05	2.3	1	.01	0	0	0
30	9.4	2	.05	1.9	1	.01	0	0	0
31	--	--	--	1.4	1	0	--	--	--
TOTAL	487.3	--	2.49	171.5	--	.43	4.55	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 18141.04
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 10696.56

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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. SIEVF DIAM. % FINER THAN 1.00 MM
DEC.										
23...	1335	12.0	362	86	84	63	68	80	91	100
27...	1115	8.0	2110	72	410	81	81	86	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 mile upstream from Tule Canyon, and 3.3 miles south of Lockwood.

DRAINAGE AREA.--223 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1972.
Sediment records: October 1965 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 524 mg/l Dec. 25; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 323 tons Dec. 25; minimum daily, 0 tons on many days.

Period of record:
Sediment concentrations: Maximum daily, 7,420 mg/l Dec. 6, 1966; minimum daily, no flow for many days each year.
Sediment discharge: Maximum daily, 161,000 tons Dec. 6, 1966; minimum daily, 0 tons on many days each year.

REMARKS.--No flow Oct. 1 to Dec. 24, May 12 to Sept. 30. Bedload sample for Feb. 7, 1972, was collected at a section 200 ft downstream from gaging station. Sediment table omitted for period July 1 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	18.0	---	---	---	---	---	---
2	---	---	---	---	6.0	---	---	---	---	---	---	---
3	---	---	---	---	---	---	25.5	---	---	---	---	---
4	---	---	---	10.0	---	---	---	---	---	---	---	---
5	---	---	---	12.5	10.0	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	14.0	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	18.0	---	---	---	---
11	---	---	---	---	---	---	---	25.0	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	14.0	---	24.0	---	---	---	---	---	---
14	---	---	---	---	8.0	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	10.5	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	10.0	---	24.0	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	9.5	---	---	---	---	---	---	---	---
22	---	---	---	---	10.5	---	---	---	---	---	---	---
23	---	---	---	---	---	17.0	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	11.0	---	---	---	---	---	---	---
27	---	---	8.0	7.0	---	---	---	---	---	---	---	---
28	---	---	9.5	5.5	---	---	---	---	---	---	---	---
29	---	---	11.5	---	11.5	---	---	---	---	---	---	---
30	---	---	12.5	4.5	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							0	0	0
22							0	0	0
23							0	0	0
24							0	0	0
25							163	524	323
26							198	373	205
27							286	368	288
28							216	220	128
29							126	80	27
30							87	50	12
31							64	40	6.9
TOTAL	0	--	0	0	--	0	1140	--	989.9

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	52	35	4.9	31	6	.50	19	2	.10
2	44	30	3.6	27	6	.44	19	2	.10
3	41	40	4.4	25	6	.41	19	2	.10
4	38	35	3.6	25	5	.34	18	2	.10
5	35	30	2.8	64	55	22	18	2	.10
6	33	25	2.2	176	115	56	17	2	.09
7	31	20	1.7	96	68	18	16	2	.09
8	28	15	1.1	69	59	11	15	2	.08
9	27	10	.73	55	57	8.5	15	2	.08
10	25	5	.34	48	52	6.7	13	2	.07
11	24	4	.26	44	49	5.8	13	2	.07
12	22	4	.24	39	47	4.9	14	6	.23
13	21	3	.17	37	45	4.5	14	14	.53
14	18	3	.15	37	42	4.2	14	13	.49
15	18	2	.10	35	38	3.6	14	7	.26
16	18	1	.05	37	34	3.4	14	3	.11
17	18	1	.05	34	30	2.8	14	3	.11
18	17	1	.05	32	25	2.2	12	3	.10
19	17	1	.05	29	19	1.5	12	3	.10
20	16	1	.04	24	12	.78	11	3	.09
21	16	7	.30	21	6	.34	11	3	.09
22	16	3	.13	22	3	.18	11	3	.09
23	16	2	.09	25	4	.27	9.3	3	.08
24	15	2	.08	24	5	.32	9.3	3	.08
25	16	2	.09	23	6	.37	9.3	3	.08
26	16	1	.04	22	7	.42	9.3	3	.08
27	20	1	.05	21	6	.34	9.3	3	.08
28	58	23	3.4	20	6	.32	8.6	3	.07
29	46	9	1.1	20	6	.32	8.0	3	.06
30	39	7	.74	--	--	--	8.0	3	.06
31	32	6	.52	--	--	--	7.4	3	.06
TOTAL	833	--	33.07	1162	--	160.45	401.5	--	3.83

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	8.0	3	.06	2.5	3	.02			
2	7.4	3	.06	2.2	3	.02			
3	6.8	4	.07	1.7	3	.01			
4	6.8	4	.07	1.3	3	.01			
5	7.4	4	.08	1.3	3	.01			
6	7.4	4	.08	1.3	2	.01			
7	6.8	4	.07	1.1	2	.01			
8	6.8	4	.07	.93	2	.01			
9	6.8	4	.07	.64	2	0			
10	6.2	4	.07	.35	2	0			
11	8.0	5	.11	.15	2	0			
12	11	7	.21	0	0	0			
13	16	10	.43	0	0	0			
14	14	8	.30	0	0	0			
15	12	7	.23	0	0	0			
16	10	6	.16	0	0	0			
17	8.6	6	.14	0	0	0			
18	8.0	6	.13	0	0	0			
19	7.4	6	.12	0	0	0			
20	6.2	6	.10	0	0	0			
21	5.7	5	.08	0	0	0			
22	5.2	5	.07	0	0	0			
23	5.2	5	.07	0	0	0			
24	4.8	4	.05	0	0	0			
25	4.3	4	.05	0	0	0			
26	3.9	4	.04	0	0	0			
27	3.6	4	.04	0	0	0			
28	3.2	3	.03	0	0	0			
29	2.8	3	.02	0	0	0			
30	2.5	3	.02	0	0	0			
31	--	--	--	0	0	0			
TOTAL	212.8	--	3.10	13.47	--	.10	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 3762.77
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 1190.45

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
MAY												
11...	1130	25.0	1	.15	1	4	24	55	81	88	96	100

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.								
27...	1515	8.0	5	312	158	331	--	6
28...	1240	9.5	4	215	125	225	--	3
JAN.								
05...	1455	12.5	3	35	72	57	--	1
13...	1235	14.0	3	21	47	40	--	--
FEB.								
07...	1415	14.0	3	92	55	293	--	1
MAR.								
01...	1230	18.0	3	20	42	39	--	--
13...	1400	24.0	5	14	37	4.6	--	1
23...	1050	17.0	4	9.0	22	5.4	1	2
APR.								
03...	1340	25.5	2	6.8	17	4.3	--	1

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.							
27...	34	60	80	89	94	98	100
28...	24	54	77	88	94	97	100
JAN.							
05...	21	55	84	95	98	99	100
13...	13	51	85	96	99	100	--
FEB.							
07...	17	61	88	96	98	99	100
MAR.							
01...	15	69	93	98	99	100	--
13...	23	73	96	99	100	--	--
23...	20	60	87	96	98	100	--
APR.							
03...	14	45	83	95	98	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 mile downstream from Rocky Creek, and 14.5 miles southwest of Greenfield.

DRAINAGE AREA.--113 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1962 to September 1972.
Sediment records: Water year 1962 (partial-record station), October 1962 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Minimum, 3.5°C Jan. 6, 9, 1972.
Sediment concentrations: Maximum daily, 129 mg/l Dec. 25; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 665 tons Dec. 25; minimum daily, 0 tons 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 Aug. 25-27, 1966, Aug. 17, 1968, and many days during August and September 1972.
Sediment discharge: Maximum daily, 84,800 tons Dec. 6, 1966; minimum daily, 0 tons on many days in 1966, 1968, 1970-72.

REMARKS.--No flow Aug. 5 to Sept. 6.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	12.0	---	---	---	---	---	---	---	---	---	---
2	---	---	---	8.0	6.0	---	---	---	---	---	---	---
3	---	---	---	6.0	6.0	---	---	---	---	---	---	---
4	---	---	---	4.0	7.0	---	---	---	---	---	---	---
5	---	---	---	4.0	8.5	---	---	---	---	---	---	---
6	---	---	---	3.5	9.0	14.5	16.0	---	---	23.0	---	---
7	---	---	---	---	9.0	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	9.5	5.5	3.5	---	---	---	---	---	---	---	---
10	---	---	---	4.5	9.0	---	---	---	---	---	---	---
11	---	11.0	---	---	---	---	---	---	---	---	---	---
12	---	11.0	---	4.5	---	---	---	---	---	---	---	---
13	---	11.0	---	---	---	---	---	---	---	---	---	---
14	---	11.5	---	8.0	---	---	---	---	---	---	---	---
15	---	11.0	---	---	8.5	---	---	20.0	---	---	---	---
16	---	11.0	---	---	---	---	---	---	---	---	---	---
17	---	11.0	---	7.5	---	---	---	---	---	---	---	---
18	---	---	---	8.0	---	---	---	---	---	---	---	---
19	12.0	6.5	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	8.5	---	---	11.5	---	---	---	---	---	---	---
22	---	8.5	9.0	8.0	---	---	---	---	---	---	---	---
23	---	---	9.5	---	---	---	---	---	---	---	---	---
24	---	---	9.5	8.0	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	9.0	---	---	---	---	---	---	---	---	---
27	---	---	6.0	6.0	---	---	---	---	---	---	---	---
28	---	---	7.0	7.5	10.0	---	---	---	---	---	---	---
29	---	---	6.0	---	10.0	---	---	---	---	---	---	---
30	---	---	8.0	8.0	---	---	---	---	---	---	---	---
31	---	---	8.0	8.0	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.										
22...	1130	9.0	1110	291	872	--	--	--	--	--
22...	1500	9.0	1360	113	415	42	50	60	69	75

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
DEC.										
22...	46	--	58	--	94	--	100	--	--	--
22...	--	84	--	86	--	88	--	90	96	100

11151870 ARROYO SECO NEAR GREENFIELD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	2.4	1	.01	5.6	2	.03	10	2	.05
2	2.5	2	.01	5.8	1	.02	14	2	.08
3	2.6	2	.01	6.0	1	.02	27	3	.22
4	2.6	2	.01	5.8	1	.02	24	1	.06
5	2.6	8	.06	5.6	1	.02	19	1	.05
6	2.4	7	.05	5.6	1	.02	16	1	.04
7	2.3	6	.04	5.4	1	.01	14	1	.04
8	2.3	6	.04	5.4	1	.01	13	1	.04
9	2.1	5	.03	5.2	1	.01	13	1	.04
10	2.1	4	.02	5.4	1	.01	13	1	.04
11	1.9	4	.02	14	8	.52	14	1	.04
12	1.9	3	.02	39	7	.83	16	2	.09
13	1.9	2	.01	23	3	.19	37	6	.73
14	1.8	1	0	14	4	.15	26	1	.07
15	1.8	1	0	11	4	.12	21	1	.06
16	1.9	1	.01	8.9	4	.10	19	1	.05
17	2.3	1	.01	8.2	4	.09	17	1	.05
18	2.9	1	.01	7.7	4	.08	16	1	.04
19	3.6	1	.01	7.4	2	.04	16	1	.04
20	3.8	1	.01	7.2	2	.04	16	2	.09
21	3.8	1	.01	7.4	2	.04	16	1	.04
22	3.8	1	.01	7.2	4	.08	602	89	224
23	3.8	1	.01	7.2	4	.08	213	17	9.8
24	3.8	1	.01	7.2	4	.08	393	19	24
25	3.8	1	.01	7.2	4	.08	1270	129	665
26	4.1	1	.01	7.2	5	.10	405	6	8.7
27	4.2	1	.01	7.7	3	.06	564	8	13
28	4.4	1	.01	8.9	1	.02	318	2	1.7
29	4.4	1	.01	10	2	.05	204	1	.55
30	4.7	1	.01	11	1	.03	151	1	.41
31	5.0	1	.01	--	--	--	126	2	.68
TOTAL	93.5	--	.49	277.2	--	2.95	4623	--	949.80

	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	106	1	.29	51	1	.14	40	1	.11
2	95	1	.26	49	1	.13	40	1	.11
3	91	1	.25	47	1	.13	39	1	.11
4	82	5	1.1	47	1	.13	39	1	.11
5	75	2	.41	375	8	11	37	1	.10
6	71	1	.19	300	4	3.2	36	1	.10
7	67	1	.18	197	1	.53	34	1	.09
8	63	1	.17	157	1	.42	33	1	.09
9	59	1	.16	133	1	.36	31	1	.08
10	56	1	.15	118	1	.32	31	1	.08
11	54	1	.15	105	1	.28	32	1	.09
12	52	1	.14	95	1	.26	36	1	.10
13	51	1	.14	87	1	.23	34	1	.09
14	50	1	.14	82	1	.22	33	1	.09
15	49	1	.13	75	1	.20	33	1	.09
16	47	1	.13	71	1	.19	31	1	.08
17	47	1	.13	68	1	.18	31	1	.08
18	45	1	.12	64	1	.17	29	1	.08
19	44	1	.12	59	1	.16	31	1	.08
20	43	1	.12	57	1	.15	32	1	.09
21	42	1	.11	54	1	.15	31	1	.08
22	40	1	.11	54	1	.15	31	1	.08
23	40	1	.11	51	1	.14	31	1	.08
24	39	1	.11	50	1	.14	32	1	.09
25	40	1	.11	47	1	.13	32	1	.09
26	44	1	.12	47	1	.13	31	1	.08
27	87	6	2.1	45	1	.12	31	1	.08
28	85	2	.46	44	1	.12	32	1	.09
29	63	1	.17	42	1	.11	32	1	.09
30	58	1	.16	--	--	--	32	1	.09
31	54	1	.15	--	--	--	31	1	.08
TOTAL	1839	--	8.19	2671	--	19.59	1028	--	2.78

11151870 ARROYO SECO NEAR GREENFIELD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	31	2	.17	17	1	.05	5.2	1	.01
2	26	1	.07	15	1	.04	5.0	1	.01
3	24	1	.06	14	1	.04	4.7	1	.01
4	23	1	.06	13	1	.04	4.4	1	.01
5	24	3	.19	12	1	.03	4.3	1	.01
6	24	1	.06	13	2	.07	3.9	1	.01
7	24	1	.06	13	2	.07	3.7	1	.01
8	22	1	.06	12	2	.06	4.0	1	.01
9	21	2	.11	12	2	.06	3.9	1	.01
10	22	1	.06	12	2	.06	4.2	1	.01
11	44	5	1.0	11	2	.06	4.4	1	.01
12	48	4	.52	11	4	.12	4.3	1	.01
13	51	7	.96	10	4	.11	3.9	1	.01
14	36	5	.49	9.4	4	.10	3.5	1	.01
15	30	2	.16	9.1	4	.10	3.2	1	.01
16	27	1	.07	8.2	4	.09	2.9	1	.01
17	25	1	.07	8.0	3	.06	2.6	1	.01
18	24	1	.06	8.5	3	.07	2.7	1	.01
19	23	1	.06	9.0	3	.07	2.4	1	.01
20	22	1	.06	10	3	.08	2.3	1	.01
21	21	1	.06	10	3	.08	2.2	1	.01
22	20	1	.05	9.5	2	.05	1.9	1	.01
23	20	1	.05	9.9	2	.05	2.1	1	.01
24	20	1	.05	9.1	2	.05	2.3	1	.01
25	21	1	.06	8.8	2	.05	2.6	1	.01
26	20	1	.05	8.4	2	.05	2.6	1	.01
27	20	1	.05	8.0	2	.04	2.5	1	.01
28	18	1	.05	7.4	2	.04	2.2	1	.01
29	17	1	.05	6.6	2	.04	2.0	1	.01
30	18	1	.05	5.9	2	.03	1.7	1	0
31	--	--	--	5.4	2	.03	--	--	--
TOTAL	766	--	4.87	316.2	--	1.89	97.6	--	.29

	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	2	.01	.17	1	0	0	0	0
2	1.1	2	.01	.09	1	0	0	0	0
3	.96	2	.01	.04	1	0	0	0	0
4	1.0	2	.01	.01	1	0	0	0	0
5	.83	2	0	0	0	0	0	0	0
6	.80	5	.01	0	0	0	0	0	0
7	.64	1	0	0	0	0	.01	1	0
8	.53	1	0	0	0	0	.06	1	0
9	.44	1	0	0	0	0	.07	1	0
10	.36	1	0	0	0	0	.02	1	0
11	.36	1	0	0	0	0	.13	1	0
12	.31	1	0	0	0	0	.22	1	0
13	.28	1	0	0	0	0	.22	1	0
14	.22	1	0	0	0	0	.25	1	0
15	.12	1	0	0	0	0	.25	5	0
16	.10	1	0	0	0	0	.41	2	0
17	.08	1	0	0	0	0	.61	1	0
18	.07	1	0	0	0	0	.62	1	0
19	.07	1	0	0	0	0	.66	1	0
20	.07	1	0	0	0	0	.70	1	0
21	.09	1	0	0	0	0	.70	1	0
22	.12	1	0	0	0	0	.67	1	0
23	.16	1	0	0	0	0	.79	1	0
24	.21	1	0	0	0	0	.95	1	0
25	.54	1	0	0	0	0	.98	1	0
26	.78	1	0	0	0	0	.76	1	0
27	.66	1	0	0	0	0	.86	1	0
28	.53	1	0	0	0	0	.95	1	0
29	.39	1	0	0	0	0	1.2	1	0
30	.35	1	0	0	0	0	1.4	1	0
31	.30	1	0	0	0	0	--	--	--
TOTAL	14.27	--	.05	.31	--	0	13.49	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 11739.57
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 990.90

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 mile upstream from El Toro Creek, 1.6 miles northwest of Spreckels, and 2 miles south of Salinas.

DRAINAGE AREA.--4,156 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-54 (partial-record station), October 1958 to September 1966, water years 1967-70, 1972 (partial-record station). Published as sta 11152300 "near Chualar" in 1967.
Water temperatures: December 1966 to September 1972. Published as sta 11152300 "near Chualar" in 1967-69.
Sediment records: Water years 1950-51 (partial-record station), December 1966 to September 1972. Published as sta 11152300 "near Chualar" in 1967-69.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 502 mg/l Dec. 30; minimum daily, 1 mg/l Oct. 18, 19.
Sediment discharge: Maximum daily, 499 tons Dec. 27; minimum daily, 0.02 ton on several days during April and May.

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 Feb. 26, 1969; minimum daily, 0 tons on several days in 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)
OCT.									
28...	1245	2.2	8.6	--	.07	.2	8.7	7.4	9.5
DEC.									
27...	1600	558	.45	--	.00	.0	.45	.32	.41
MAR.									
08...	1030	3.7	8.7	39	.09	.3	8.8	9.6	12
APR.									
12...	0930	50	.68	3.0	.03	.1	.71	.36	.46
JUNE									
28...	0930	.71	7.4	33	.79	2.6	8.2	5.0	6.4

DATE	ORGANIC NITROGEN (N) (MG/L)	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)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.								
28...	1.4	8.8	.39	.27	1510	7.3	13.0	9.0
DEC.								
27...	.68	1.0	.43	.30	--	--	8.0	5.5
MAR.								
08...	.10	9.7	1.5	1.2	--	--	15.0	8.0
APR.								
12...	.55	.91	.57	.19	510	--	15.0	.5
JUNE								
28...	.20	5.2	13	12	1130	--	20.5	17

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
OCT.											
28...	1245	.00	--	.0	--	.00	--	.00	--	.00	--
DEC.											
27...	1600	.00	--	.0	--	.00	--	.02	--	.12	--
MAR.											
08...	1030	.00	--	.0	--	.00	--	.00	--	.00	--
APR.											
12...	0910	.00	--	.0	--	.00	--	.00	--	.00	--
12...	1015	--	<.2	--	19	--	5.3	--	2.4	--	<.2
JUNE											
28...	0930	.00	--	.1	--	.00	--	.02	--	.06	--

DATE	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)
OCT.											
28...	--	.00	--	.00	--	.00	--	.00	--	.00	--
DEC.											
27...	.01	.01	--	.00	--	.00	--	.00	--	.00	--
MAR.											
08...	.02	.01	--	.00	--	.00	--	.00	--	.02	--
APR.											
12...	.00	.01	--	.00	--	.00	--	.00	--	.00	--
12...	--	--	4.0	--	<.2	--	<.2	--	<.2	--	<.2
JUNE											
28...	.07	.03	--	.00	--	.00	--	.00	--	.00	--

DATE	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)
OCT.										
28...	--	--	--	--	.89	--	.00	--	.00	--
DEC.										
27...	.00	.00	.00	--	.18	--	.00	--	.00	--
MAR.										
08...	.00	.00	.06	--	.03	--	.00	--	.01	--
APR.										
12...	.00	.00	.00	--	.04	--	.00	--	.00	--
12...	--	--	--	20	--	<1.8	--	<.6	--	<.6
JUNE										
28...	.00	.00	.00	--	.00	--	.00	--	.00	--

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.									
28...	1245	2	0	0	1	1	1	.1	10
DEC.									
27...	1600	2	2	0	0	20	6	.3	20
MAR.									
08...	1030	10	0	0	2	4	4	.5	20
APR.									
12...	0930	4	0	0	1	3	0	.4	20
JUNE									
28...	0930	8	2	0	0	39	3	.4	70

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.0	---	---	9.0	---	14.0	---	---	21.0	22.0	---	21.0
2	---	16.0	15.0	---	13.0	---	18.0	21.0	---	---	22.0	---
3	20.0	---	---	10.0	---	16.0	---	---	21.0	23.0	---	21.0
4	---	16.0	14.0	---	15.0	---	---	20.0	---	---	20.0	---
5	18.0	15.5	---	10.0	---	16.0	---	---	19.0	21.0	---	23.0
6	---	16.0	15.0	---	15.0	16.0	---	17.0	---	---	22.0	---
7	20.0	---	---	9.0	---	17.0	---	---	20.0	22.0	---	24.0
8	---	17.0	15.0	---	13.0	---	17.0	18.0	---	---	20.0	---
9	18.0	---	12.0	8.0	---	18.0	---	---	20.0	20.0	---	22.0
10	19.0	15.0	13.0	10.5	13.0	---	18.0	20.0	---	---	23.0	---
11	---	---	---	11.0	---	17.0	---	---	21.0	22.0	---	20.0
12	---	15.0	10.0	---	16.0	---	16.0	20.0	---	---	23.0	---
13	17.0	---	---	12.0	---	18.0	---	---	---	23.0	---	23.0
14	---	16.0	9.0	---	14.0	---	17.0	21.0	---	---	22.0	---
15	18.0	---	---	13.0	---	19.0	---	---	20.0	23.0	---	21.0
16	---	15.0	8.0	---	14.0	---	16.0	---	---	---	23.0	---
17	11.0	---	---	12.0	---	20.0	---	19.0	21.0	22.0	---	22.0
18	---	17.0	13.0	---	15.0	---	17.0	19.0	---	---	23.0	---
19	15.0	---	---	11.0	---	17.0	---	---	19.0	21.0	---	23.0
20	---	16.0	9.0	---	14.0	---	17.0	19.0	---	---	23.0	---
21	17.0	---	---	14.0	---	18.0	---	---	21.0	22.0	---	22.0
22	---	15.0	12.0	---	16.0	---	19.0	18.0	---	---	21.0	---
23	22.0	---	---	13.0	---	20.0	---	---	20.0	20.0	---	23.0
24	---	15.0	13.0	---	15.0	---	20.0	20.0	---	---	21.0	---
25	16.0	---	---	12.0	---	17.0	---	---	20.0	23.0	---	22.0
26	---	17.0	---	---	16.0	---	20.0	20.0	---	---	21.0	---
27	17.0	---	8.0	10.0	---	17.0	---	---	22.0	21.0	---	22.0
28	---	16.0	8.0	---	16.0	---	19.0	21.0	20.5	---	21.0	---
29	10.0	---	9.0	11.0	---	18.0	---	---	22.0	22.0	---	23.0
30	---	15.0	8.0	---	---	---	21.0	20.0	---	---	23.0	---
31	12.0	---	8.0	10.0	---	17.0	---	---	---	21.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	7.5	9	.18	2.8	9	.07	6.8	19	.35
2	13	30	1.1	3.1	6	.05	7.5	38	.77
3	20	46	2.5	3.7	6	.06	7.2	50	.97
4	24	48	3.1	3.9	6	.06	7.2	46	.89
5	28	50	3.8	4.8	5	.06	7.2	19	.37
6	31	40	3.3	4.8	10	.13	6.8	5	.09
7	37	28	2.8	4.4	9	.11	6.1	12	.20
8	39	20	2.1	4.4	7	.08	6.1	25	.41
9	39	16	1.7	4.4	10	.12	6.5	6	.11
10	38	80	8.2	4.4	11	.13	6.5	5	.09
11	28	70	5.3	6.1	9	.15	6.8	8	.15
12	23	60	3.7	6.5	6	.11	6.5	8	.14
13	20	56	3.0	4.1	5	.06	6.8	5	.09
14	18	10	.49	5.1	5	.07	6.5	4	.07
15	13	7	.25	4.8	7	.09	6.5	10	.18
16	15	4	.16	5.1	10	.14	6.1	14	.23
17	18	2	.10	5.1	10	.14	6.8	12	.22
18	19	1	.05	5.1	8	.11	7.2	10	.19
19	11	1	.03	5.8	7	.11	6.8	10	.18
20	6.5	10	.18	5.8	6	.09	7.2	12	.23
21	3.5	25	.24	5.8	5	.08	7.2	14	.27
22	3.1	20	.17	6.1	5	.08	8.5	14	.32
23	2.8	16	.12	6.5	4	.07	6.8	11	.20
24	2.6	10	.07	6.5	4	.07	7.5	10	.20
25	2.4	7	.05	5.8	4	.06	9.0	10	.24
26	2.2	7	.04	7.2	9	.24	33	161	39
27	2.2	7	.04	5.8	6	.09	591	319	499
28	2.2	6	.04	12	4	.13	359	399	370
29	2.2	6	.04	6.5	6	.11	387	172	183
30	2.2	12	.07	6.8	9	.17	202	502	247
31	2.6	17	.12	--	--	--	91	500	123
TOTAL	476.0	--	43.04	163.2	--	3.04	1837.1	--	1468.16

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	53	184	26	5.5	14	.21	2.8	8	.06
2	40	124	13	5.5	14	.21	3.1	9	.08
3	33	92	8.2	5.8	16	.25	3.1	10	.08
4	25	50	3.4	5.8	17	.27	3.1	12	.10
5	15	33	1.3	6.5	14	.25	3.3	13	.12
6	11	30	.89	5.5	7	.10	3.7	11	.11
7	10	30	.81	5.5	6	.09	3.7	10	.10
8	9.4	28	.71	5.1	6	.08	3.7	10	.10
9	8.9	28	.67	5.1	9	.12	3.5	9	.09
10	8.4	11	.25	4.4	12	.14	3.5	8	.08
11	8.0	17	.37	3.9	14	.15	3.5	11	.10
12	7.5	15	.30	3.7	17	.17	3.9	15	.16
13	7.5	12	.24	4.4	18	.21	3.1	18	.15
14	6.8	12	.22	4.1	18	.20	3.1	21	.18
15	6.1	12	.20	4.4	16	.19	3.7	23	.23
16	6.1	12	.20	4.4	14	.17	3.3	24	.21
17	6.1	15	.25	4.8	11	.14	3.7	22	.22
18	6.5	30	.53	4.1	8	.09	3.5	18	.17
19	6.5	39	.68	3.9	7	.07	2.6	16	.11
20	6.8	34	.62	4.1	6	.07	2.6	18	.13
21	6.8	23	.42	3.9	5	.05	2.6	18	.13
22	6.8	15	.28	3.5	6	.06	.80	15	.03
23	7.5	10	.20	3.9	14	.15	3.0	14	.11
24	7.2	10	.19	3.7	19	.19	2.0	18	.10
25	7.5	10	.20	3.5	16	.15	2.2	20	.12
26	7.2	6	.12	3.7	15	.15	2.2	20	.12
27	8.0	5	.11	3.5	17	.16	2.2	21	.12
28	6.8	11	.20	3.3	16	.14	2.2	26	.15
29	6.5	15	.26	3.3	11	.10	2.4	28	.18
30	6.1	16	.26	--	--	--	2.0	27	.15
31	5.5	16	.24	--	--	--	1.4	27	.10
TOTAL	357.5	--	61.32	128.8	--	4.33	89.50	--	3.89

	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	29	.10	.52	14	.02	2.4	51	.33
2	2.8	32	.24	.61	13	.02	2.4	40	.26
3	5.5	31	.46	.61	12	.02	2.6	28	.20
4	9.0	30	.73	.61	10	.02	2.4	40	.26
5	10	29	.78	.61	11	.02	2.2	50	.30
6	10	28	.76	.70	12	.02	1.9	40	.21
7	14	27	1.0	.80	12	.03	1.7	32	.15
8	17	26	1.2	.92	12	.03	1.5	40	.16
9	31	24	2.0	1.0	18	.05	1.4	44	.17
10	37	23	2.3	1.2	22	.07	1.6	42	.18
11	44	24	2.9	.92	19	.05	1.6	40	.17
12	55	30	4.5	.92	16	.04	1.8	37	.18
13	65	40	7.0	1.0	16	.04	2.0	34	.18
14	68	50	9.2	1.2	16	.05	1.9	32	.16
15	70	40	7.6	1.2	15	.05	1.9	29	.15
16	50	19	2.6	1.3	15	.05	1.9	30	.15
17	31	22	1.8	1.4	15	.06	1.8	34	.17
18	25	27	1.8	1.5	40	.16	1.9	40	.21
19	21	17	.96	1.4	40	.15	2.2	48	.29
20	15	14	.57	1.5	41	.17	2.0	31	.17
21	12	14	.45	1.5	45	.18	1.9	28	.14
22	10	15	.41	1.5	49	.20	1.8	29	.14
23	7.2	18	.35	1.4	30	.11	1.8	31	.15
24	2.6	21	.15	1.4	21	.08	1.6	34	.15
25	1.2	22	.07	1.3	30	.11	1.6	30	.13
26	.70	21	.04	1.4	37	.14	1.5	22	.09
27	.52	19	.03	1.5	50	.20	1.4	18	.07
28	.52	17	.02	1.6	65	.28	1.2	44	.14
29	.45	16	.02	1.6	50	.22	1.3	12	.04
30	.52	14	.02	1.9	38	.19	1.6	40	.17
31	--	--	--	2.0	45	.24	--	--	--
TOTAL	617.31	--	50.06	37.02	--	3.07	54.8	--	5.27

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1.9	70	.36	2.2	21	.12	3.6	11	.11
2	2.2	66	.39	2.1	16	.09	3.6	10	.10
3	2.6	46	.32	2.0	14	.08	3.4	9	.08
4	2.8	30	.23	2.2	12	.07	3.5	7	.07
5	3.3	20	.18	2.0	14	.08	4.0	6	.06
6	3.5	20	.19	1.9	16	.08	3.7	6	.06
7	3.7	24	.24	1.6	22	.10	3.3	6	.05
8	3.7	24	.24	1.0	16	.04	3.1	7	.06
9	4.1	24	.27	1.0	14	.04	3.3	8	.07
10	3.9	24	.25	1.2	12	.04	3.5	13	.12
11	4.1	24	.27	1.2	13	.04	3.6	20	.19
12	4.4	20	.24	1.3	14	.05	4.1	30	.33
13	4.4	15	.18	1.5	13	.05	3.9	35	.37
14	4.8	15	.19	1.6	13	.06	3.7	20	.20
15	5.1	14	.19	1.9	12	.06	3.6	6	.06
16	5.1	20	.28	1.8	12	.06	3.8	12	.12
17	5.5	24	.36	2.0	10	.05	3.3	20	.18
18	5.1	24	.33	2.1	7	.04	3.3	12	.11
19	4.8	24	.31	2.4	12	.08	3.2	6	.05
20	4.3	23	.27	2.4	18	.12	3.2	8	.07
21	3.8	22	.23	2.6	25	.18	3.2	9	.08
22	3.3	20	.18	2.7	30	.22	3.3	7	.06
23	2.8	18	.14	2.9	27	.21	3.3	6	.05
24	2.4	17	.11	2.9	23	.18	3.2	7	.06
25	1.9	16	.08	3.0	19	.15	3.1	7	.06
26	1.4	12	.05	3.2	14	.12	2.9	15	.12
27	1.6	9	.04	3.1	14	.12	2.8	26	.20
28	1.9	11	.06	3.2	14	.12	2.7	15	.11
29	2.0	23	.12	3.3	16	.14	2.6	7	.05
30	2.4	27	.17	3.4	20	.18	2.5	6	.04
31	2.4	28	.18	3.4	15	.14	--	--	--
TOTAL	105.2	--	6.65	69.1	--	3.11	100.3	--	3.29

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 4035.83
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 1655.23

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.								
27...	1225	8.0	670	142	257	--	--	--
28...	1145	8.0	308	536	446	70	87	89
30...	1230	8.0	195	668	352	53	71	86
31...	1215	8.0	83	497	111	51	73	83
JAN.								
01...	1330	9.0	49	187	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
DEC.							
27...	--	--	94	94	98	100	--
28...	91	92	94	94	97	99	100
30...	88	90	92	93	95	100	--
31...	92	95	100	--	--	--	--
JAN.							
01...	--	--	88	90	93	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 upstream from small left-bank tributary, 5.7 miles upstream from Chesbro Dam, and 6.4 miles west of Morgan Hill.

DRAINAGE AREA.--9.61 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1972.
Sediment records: October 1971 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 45 mg/l Dec. 27; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 9.9 tons Dec. 27; minimum daily, 0 tons on many days.

REMARKS.--No flow Oct. 1-31, Nov. 5-7, June 6 to Sept. 30. Sediment table omitted for period July 1 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	12.0	15.0	---	---	---
3	---	---	---	5.0	5.0	12.0	15.0	13.0	---	---	---	---
4	---	---	---	---	6.0	---	---	---	---	---	---	---
5	---	---	---	---	8.0	---	---	14.0	---	---	---	---
6	---	---	---	5.5	8.0	12.0	14.0	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	4.0	9.0	12.0	---	11.0	---	---	---	---
10	---	---	---	---	---	---	10.0	---	---	---	---	---
11	---	---	---	---	---	---	10.0	---	---	---	---	---
12	---	---	---	---	10.0	---	11.0	---	---	---	---	---
13	---	---	---	---	---	13.0	9.0	13.0	---	---	---	---
14	---	---	---	7.0	10.0	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	13.0	---	---	---	---	---	---
17	---	---	---	5.0	8.0	---	10.0	15.0	---	---	---	---
18	---	---	4.0	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	12.0	---	---	---	---	---	---
20	---	---	---	8.0	9.0	---	9.0	13.0	---	---	---	---
21	---	---	4.0	---	---	---	---	---	---	---	---	---
22	---	---	9.0	---	10.0	14.0	---	---	---	---	---	---
23	---	---	8.0	9.0	---	---	10.0	---	---	---	---	---
24	---	---	9.0	---	---	---	---	13.0	---	---	---	---
25	---	---	8.0	---	10.0	13.0	---	---	---	---	---	---
26	---	---	7.0	---	---	---	10.0	---	---	---	---	---
27	---	---	8.0	4.0	---	---	---	---	---	---	---	---
28	---	---	7.0	6.0	10.0	10.0	---	---	---	---	---	---
29	---	---	6.0	---	11.0	---	10.0	15.0	---	---	---	---
30	---	---	6.0	4.0	---	---	---	---	---	---	---	---
31	---	---	---	---	---	10.0	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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				.01	1	0	.31	1	0
2				.01	1	0	.86	2	0
3				.01	1	0	.74	2	0
4				.01	1	0	.56	1	0
5				0	0	0	.50	1	0
6				0	0	0	.48	1	0
7				0	0	0	.42	1	0
8				.02	1	0	.43	1	0
9				.04	1	0	.47	1	0
10				.03	1	0	.50	1	0
11				.57	14	.02	.49	1	0
12				.20	6	0	.58	1	0
13				.24	2	0	.62	1	0
14				.28	1	0	.57	1	0
15				.17	1	0	.57	1	0
16				.20	1	0	.56	1	0
17				.20	1	0	.48	2	0
18				.20	1	0	.39	2	0
19				.24	1	0	.39	2	0
20				.28	1	0	.43	2	0
21				.27	1	0	.65	3	.02
22				.31	1	0	8.0	29	.68
23				.30	1	0	5.3	7	.14
24				.28	1	0	19	41	3.0
25				.28	1	0	46	27	3.5
26				.28	1	0	25	37	5.9
27				.24	1	0	48	45	9.9
28				.32	1	0	15	1	.04
29				.32	1	0	9.0	2	.05
30				.32	1	0	6.4	1	.02
31				--	--	--	5.0	1	.01
TOTAL	0	--	0	5.63	--	.02	197.70	--	23.26

	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	3.8	1	.01	5.8	3	.05	2.4	4	.03
2	3.4	1	.01	5.2	2	.03	2.2	5	.03
3	3.1	1	.01	4.9	2	.03	2.2	6	.04
4	2.7	1	.01	4.5	3	.04	2.2	5	.03
5	2.5	1	.01	24	19	1.5	2.1	4	.02
6	2.4	1	.01	15	12	.49	2.0	3	.02
7	2.3	1	.01	11	9	.27	2.0	4	.02
8	2.2	1	.01	9.3	5	.13	2.0	5	.03
9	2.0	1	.01	8.0	3	.06	1.9	5	.03
10	2.0	1	.01	7.1	3	.06	1.8	5	.02
11	2.0	1	.01	6.3	2	.03	1.8	5	.02
12	1.8	1	0	5.8	2	.03	1.8	6	.03
13	1.8	1	0	5.3	2	.03	1.7	6	.03
14	1.7	1	0	4.9	2	.03	1.6	6	.03
15	1.6	1	0	4.4	2	.02	1.6	6	.03
16	1.6	1	0	4.1	2	.02	1.4	6	.02
17	1.6	1	0	3.8	2	.02	1.4	5	.02
18	1.6	1	0	3.7	2	.02	1.2	5	.02
19	1.6	1	0	3.5	2	.02	1.2	4	.01
20	1.4	1	0	3.3	2	.02	1.2	4	.01
21	1.4	1	0	3.2	4	.03	1.3	4	.01
22	1.4	1	0	3.4	6	.06	1.4	4	.02
23	1.4	1	0	3.0	6	.05	1.3	4	.01
24	1.3	1	0	2.9	7	.05	1.2	4	.01
25	2.4	6	.04	2.9	7	.05	1.2	4	.01
26	2.2	2	.01	2.7	6	.04	1.2	3	.01
27	37	38	5.1	2.7	5	.04	1.1	2	.01
28	16	14	.60	2.4	5	.03	1.1	2	.01
29	10	9	.24	2.4	3	.02	1.1	2	.01
30	7.7	3	.06	--	--	--	1.1	3	.01
31	6.6	3	.05	--	--	--	1.1	3	.01
TOTAL	130.5	--	6.21	165.5	--	3.27	48.8	--	.61

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

TOTAL-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1.0	3	.01	.54	2	0	.15	3	0
2	.99	2	.01	.55	2	0	.12	3	0
3	.95	2	.01	.53	2	0	.08	2	0
4	.92	2	0	.49	5	.01	.08	2	0
5	1.1	2	.01	.57	7	.01	.02	1	0
6	1.2	1	0	.58	7	.01	0	1	0
7	1.0	1	0	.60	6	.01	0	0	0
8	.93	1	0	.62	6	.01	0	0	0
9	.89	1	0	.61	6	.01	0	0	0
10	.87	6	.01	.56	5	.01	0	0	0
11	1.6	8	.03	.53	4	.01	0	0	0
12	1.6	5	.02	.43	3	0	0	0	0
13	1.8	7	.03	.37	3	0	0	0	0
14	1.3	7	.02	.33	3	0	0	0	0
15	1.0	6	.02	.26	2	0	0	0	0
16	.98	6	.02	.32	2	0	0	0	0
17	.93	6	.02	.33	2	0	0	0	0
18	.88	6	.01	.35	2	0	0	0	0
19	.79	7	.01	.40	3	0	0	0	0
20	.95	7	.02	.39	4	0	0	0	0
21	.91	6	.01	.37	4	0	0	0	0
22	.92	5	.01	.35	4	0	0	0	0
23	.84	4	.01	.34	3	0	0	0	0
24	.77	4	.01	.33	3	0	0	0	0
25	.88	3	.01	.32	3	0	0	0	0
26	.76	3	.01	.31	3	0	0	0	0
27	.70	3	.01	.35	2	0	0	0	0
28	.65	3	.01	.30	2	0	0	0	0
29	.65	3	.01	.21	2	0	0	0	0
30	.70	3	.01	.18	2	0	0	0	0
31	--	--	--	.15	2	0	--	--	--
TOTAL	29.46	--	.35	12.57	--	.08	.45	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 590.61
TOTAL-SEDIMENT DISCHARGE FOR YEAR (TONS) 33.80

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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. 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
DEC. 24...	1010	9.0	21	64	3.6	99	99	99	100
JAN. 27...	1000	4.0	72	64	12	94	95	98	100
FEB. 05...	0915	8.0	39	54	5.7	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 mile downstream from Little Uvas Creek, 0.9 mile upstream from Hay Canyon, and 4.4 miles southwest of Morgan Hill.

DRAINAGE AREA.--21.0 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1972.
Sediment records: Water year 1965 (partial-record station), October 1965 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 579 mg/l Dec. 25; minimum daily, 0 mg/l on several days.
Sediment discharge: Maximum daily, 208 tons Dec. 25; minimum daily, 0 tons 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 Jan. 21, 1967; minimum daily, 0 tons on many days in 1965-72.

REMARKS.--Zero bedload discharge observed at flows smaller than 12 cfs.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	27.5
2	---	---	8.0	7.0	---	14.5	---	---	24.5	---	17.5	21.0
3	---	14.0	6.0	---	7.0	---	---	14.0	---	32.0	---	---
4	---	15.0	---	7.0	---	---	---	22.0	---	---	23.0	---
5	---	---	---	4.0	9.0	---	15.0	---	26.0	---	---	---
6	---	---	---	5.0	---	---	---	---	---	---	---	18.0
7	17.0	---	6.0	---	10.0	---	---	---	---	19.0	---	---
8	---	---	---	5.0	---	---	---	15.0	21.0	---	24.0	---
9	---	---	---	---	11.0	---	---	---	---	---	---	21.0
10	---	---	7.0	---	---	---	---	---	---	---	---	---
11	---	11.0	---	5.0	---	---	---	---	---	30.0	---	---
12	---	---	---	---	12.0	---	---	24.0	20.0	---	23.0	---
13	---	---	7.0	---	---	17.0	10.0	---	---	---	---	20.0
14	19.0	---	---	4.0	---	---	---	---	---	32.0	---	---
15	---	---	---	---	11.0	---	---	27.0	---	---	---	---
16	---	---	5.0	---	---	---	---	---	28.0	---	22.0	---
17	---	---	---	7.0	11.0	18.0	---	---	---	---	---	20.0
18	---	9.0	---	---	---	---	---	26.0	---	32.0	---	---
19	---	---	---	---	12.0	---	---	---	---	---	---	---
20	14.0	---	---	8.0	---	---	20.0	---	31.0	---	21.0	15.0
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	10.0	---	12.0	15.0	---	25.0	---	31.0	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	10.0	10.0	---	---	---	---	30.0	---	23.0	16.0
25	---	10.0	---	---	15.0	---	---	---	---	---	---	---
26	---	---	---	6.0	---	---	---	25.0	---	32.0	---	---
27	---	---	8.0	6.0	---	---	---	---	32.0	---	22.0	18.0
28	10.0	---	---	6.0	---	---	24.0	---	---	---	---	---
29	---	---	8.0	---	14.0	---	---	---	---	---	---	---
30	---	10.0	---	---	---	---	---	---	31.0	24.0	---	17.0
31	---	---	6.0	6.0	---	---	---	24.0	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	5	.01	.80	1	0	1.7	3	.01
2	1.1	5	.01	.67	1	0	4.4	12	.17
3	.96	5	.01	.65	1	0	3.1	7	.06
4	.76	4	.01	.62	2	0	2.7	3	.02
5	.69	4	.01	.66	2	0	2.2	3	.02
6	.67	4	.01	.57	2	0	2.0	3	.02
7	.57	4	.01	.57	2	0	1.8	2	.01
8	.62	4	.01	.81	2	0	1.7	2	.01
9	.59	4	.01	.76	2	0	1.7	2	.01
10	.44	4	0	.80	2	0	1.8	2	.01
11	.61	3	0	4.7	9	.18	1.8	2	.01
12	.51	3	0	4.2	3	.03	2.0	2	.01
13	.46	3	0	3.4	4	.04	2.4	2	.01
14	.51	3	0	2.7	3	.02	2.0	2	.01
15	.63	3	.01	1.8	3	.01	1.9	3	.02
16	.54	4	.01	1.5	2	.01	1.8	4	.02
17	.65	4	.01	1.5	1	0	1.8	4	.02
18	.71	4	.01	1.5	0	0	1.8	4	.02
19	.59	5	.01	1.4	0	0	1.7	4	.02
20	.67	5	.01	1.3	0	0	1.7	4	.02
21	.57	5	.01	1.4	0	0	2.2	6	.06
22	.71	4	.01	1.4	0	0	40	119	15
23	.62	4	.01	1.5	0	0	17	14	.74
24	.66	3	.01	1.5	0	0	78	336	119
25	.78	3	.01	1.5	0	0	124	579	208
26	.38	2	0	1.5	1	0	67	164	63
27	.66	2	0	1.5	1	0	139	250	168
28	.58	1	0	1.6	2	.01	40	10	1.1
29	.69	1	0	1.8	2	.01	23	4	.25
30	.66	1	0	1.8	3	.01	16	3	.13
31	.82	1	0	--	--	--	12	2	.06
TOTAL	20.51	--	.20	46.41	--	.32	600.2	--	575.84

	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	9.9	2	.05	15	2	.08	6.2	3	.05
2	8.5	2	.05	13	2	.07	6.1	5	.08
3	7.2	2	.04	12	2	.06	6.1	5	.08
4	6.3	1	.02	12	2	.06	5.9	5	.08
5	5.6	1	.02	128	90	47	5.6	4	.06
6	5.3	2	.03	56	11	1.7	5.3	4	.06
7	4.9	1	.01	34	4	.37	5.2	4	.06
8	4.5	1	.01	27	4	.29	5.1	3	.04
9	4.3	1	.01	23	3	.19	5.3	3	.04
10	4.0	2	.02	20	2	.11	5.3	3	.04
11	3.8	2	.02	17	2	.09	5.1	2	.03
12	3.8	2	.02	15	1	.04	4.6	2	.02
13	3.6	2	.02	14	1	.04	4.7	2	.03
14	3.5	2	.02	13	2	.07	4.8	2	.03
15	3.3	2	.02	12	2	.06	4.9	2	.03
16	3.3	1	.01	11	3	.09	4.5	1	.01
17	3.1	1	.01	9.8	4	.11	4.3	1	.01
18	3.1	1	.01	9.3	4	.10	4.4	1	.01
19	3.1	1	.01	8.8	3	.07	4.1	1	.01
20	3.0	1	.01	8.4	3	.07	4.3	1	.01
21	3.0	1	.01	8.3	2	.04	4.5	1	.01
22	2.8	2	.02	9.4	2	.05	4.6	1	.01
23	2.3	2	.01	8.2	2	.04	4.6	1	.01
24	3.0	2	.02	7.7	2	.04	4.4	1	.01
25	5.7	7	.13	7.4	2	.04	4.7	1	.01
26	5.5	5	.06	7.1	2	.04	4.4	1	.01
27	99	62	28	6.9	2	.04	4.2	1	.01
28	39	8	.84	6.6	2	.04	4.0	2	.02
29	25	5	.34	6.5	2	.04	3.5	2	.02
30	19	3	.15	--	--	--	3.5	2	.02
31	16	2	.09	--	--	--	3.1	2	.02
TOTAL	314.4	--	30.08	526.4	--	51.04	147.3	--	.93

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	2	.02	1.7	1	0	.75	3	.01
2	3.3	2	.02	1.6	1	0	.83	4	.01
3	3.7	2	.02	1.7	1	0	.66	4	.01
4	3.7	2	.02	1.6	3	.01	.79	4	.01
5	4.7	2	.03	1.9	3	.02	.74	4	.01
6	5.5	3	.04	2.3	4	.02	.35	4	0
7	4.2	3	.03	2.5	5	.03	.71	4	.01
8	3.4	4	.04	1.7	5	.02	.50	4	.01
9	3.6	4	.04	2.2	5	.03	.64	4	.01
10	3.5	4	.04	1.6	4	.02	.92	4	.01
11	5.8	8	.13	1.6	4	.02	.83	4	.01
12	7.4	6	.12	1.5	4	.02	.84	4	.01
13	9.0	7	.17	1.8	4	.02	.65	4	.01
14	6.1	6	.10	1.4	4	.02	.73	3	.01
15	5.1	5	.07	1.1	4	.01	.44	3	0
16	4.0	4	.04	.67	4	.01	.50	3	0
17	4.4	3	.04	.20	5	0	.34	3	0
18	3.7	2	.02	.96	6	.02	.32	3	0
19	3.0	2	.02	1.1	5	.01	.57	3	0
20	3.4	2	.02	1.4	4	.02	.42	3	0
21	3.2	2	.02	1.4	3	.01	.48	3	0
22	2.7	2	.01	1.4	2	.01	.39	2	0
23	2.6	2	.01	.79	3	.01	.44	2	0
24	3.2	2	.02	1.0	4	.01	.53	2	0
25	2.2	2	.01	.90	5	.01	.71	2	0
26	2.0	2	.01	.99	6	.02	.67	3	.01
27	1.5	2	.01	1.5	6	.02	.39	3	0
28	1.8	2	.01	1.2	6	.02	.39	3	0
29	2.0	2	.01	1.3	6	.02	.28	4	0
30	1.9	2	.01	.90	6	.01	.16	5	0
31	--	--	--	.58	6	.01	--	--	--
TOTAL	114.0	--	1.15	42.49	--	.45	16.97	--	.14

	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	.16	5	0	.20	5	0	.48	3	0
2	.33	5	0	.11	4	0	.04	7	0
3	.32	5	0	.23	4	0	.04	6	0
4	.26	5	0	.13	5	0	.03	5	0
5	.17	6	0	.12	4	0	.04	5	0
6	.38	7	.01	.19	3	0	.05	5	0
7	.21	7	0	.08	3	0	.06	4	0
8	.19	7	0	.11	2	0	.07	3	0
9	.32	7	.01	.08	2	0	.05	2	0
10	.31	7	.01	.10	1	0	.05	2	0
11	.22	7	0	.08	1	0	.11	2	0
12	.15	8	0	.08	1	0	.14	3	0
13	.12	10	0	.08	1	0	.15	3	0
14	.09	12	0	.09	1	0	.16	2	0
15	.05	11	0	.09	1	0	.09	2	0
16	.14	10	0	.09	1	0	.13	1	0
17	.09	9	0	.19	1	0	.10	1	0
18	.15	8	0	.15	1	0	.11	1	0
19	.23	8	0	.20	1	0	.16	1	0
20	.26	7	0	.17	1	0	.15	1	0
21	.35	7	.01	.17	1	0	.14	1	0
22	.32	7	.01	.24	1	0	.13	1	0
23	.26	7	0	.12	1	0	.12	2	0
24	.35	6	.01	.11	1	0	.08	2	0
25	.21	6	0	.08	1	0	.12	2	0
26	.31	6	.01	.07	1	0	.22	2	0
27	.15	6	0	.10	1	0	.43	5	.01
28	.14	6	0	.15	1	0	.90	10	.02
29	.15	7	0	.16	2	0	.33	12	.01
30	.17	7	0	.08	2	0	.15	16	.01
31	.21	6	0	.07	2	0	--	--	--
TOTAL	6.77	--	.07	3.92	--	0	4.83	--	.05

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1844.20
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 660.27

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.							
22...	1030	10.0	48	181	23	--	--
24...	1100	10.0	94	455	115	56	72
JAN.							
27...	1205	6.0	170	84	39	--	--

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.							
22...	--	--	--	91	93	96	100
24...	80	89	92	95	97	100	--
JAN.							
27...	--	--	--	95	97	98	100

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	NUMBER OF SAMPLING POINTS	INSTANTANEOUS DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM
JAN.							
27...	1300	6.0	4	153	49	.01	9

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM
JAN.						
27...	11	18	39	52	74	100

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 mile downstream from Pescadero Creek, 0.6 mile southeast of Chittenden, and 2.3 miles downstream from San Benito River.

DRAINAGE AREA.--1,186 sq mi.

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 year 1972 (partial-record station).

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
AUG. 23...	1305	2.3	.13	2570	22.0	0	1600	0	0	.0

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG. 23...	1305	2.3	2200	8.2	22.0	6.1

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 mile upstream from highway bridge in town of Soquel, and 0.4 mile downstream from Bates Creek.

DRAINAGE AREA.--40.2 sq mi.

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 September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 29.0°C July 13; minimum, 4.0°C on several days during December to February.

Period of record:
Water temperatures: Maximum (1967-69, 1970-72), 30.5°C Aug. 29, 1968; minimum (1968-72), 3.0°C Jan. 5, 1970.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	12.0	23.0	12.0	23.0	15.0	23.0	17.5	26.5	17.0	24.0	17.0
2	19.5	11.5	23.0	13.0	24.0	15.0	22.5	17.0	26.0	17.0	23.5	17.5
3	19.0	13.5	18.5	14.0	23.0	15.5	26.0	17.0	21.0	17.0	25.0	18.0
4	17.5	14.0	15.5	13.5	24.5	15.0	26.5	16.5	24.5	16.5	23.0	17.0
5	15.0	14.0	15.5	13.0	25.5	15.5	26.0	16.5	26.0	16.5	26.5	16.5
6	20.0	13.5	19.5	13.0	25.0	16.0	25.5	15.5	25.0	16.5	24.0	17.5
7	19.0	11.5	17.0	13.0	23.0	16.5	26.5	15.5	23.5	17.5	23.5	17.0
8	19.0	11.0	19.5	11.0	22.5	16.0	27.5	15.5	22.5	17.5	23.0	16.5
9	17.0	11.5	21.5	11.5	18.0	15.0	28.0	17.0	23.0	18.0	24.0	17.0
10	18.5	11.0	22.0	12.0	24.5	12.5	27.5	16.0	26.5	17.5	22.5	16.0
11	16.5	12.0	23.5	12.5	24.5	13.0	27.0	17.0	26.5	17.5	19.5	16.0
12	12.5	11.5	25.0	14.0	26.0	14.5	28.0	16.5	26.0	15.5	22.5	13.0
13	11.5	9.0	24.5	15.0	25.5	14.5	29.0	16.5	26.0	15.0	22.5	13.5
14	17.0	9.5	24.0	14.5	26.0	16.0	28.5	17.0	25.5	14.5	21.0	14.5
15	18.0	10.0	23.5	15.0	26.0	16.5	21.0	17.0	25.0	14.5	20.5	15.5
16	19.0	12.0	22.0	14.5	26.5	15.0	21.0	18.0	25.5	14.5	22.0	16.0
17	18.0	10.5	23.0	14.0	26.0	16.0	23.0	18.0	26.5	16.5	22.0	14.5
18	18.0	10.0	23.0	14.0	19.0	16.0	26.5	17.5	26.0	16.5	22.0	14.0
19	18.5	9.5	22.0	14.5	25.0	15.5	22.5	18.0	26.5	16.5	23.0	15.0
20	18.5	10.0	22.0	14.0	25.5	16.5	19.5	17.5	27.5	18.0	22.5	14.0
21	19.0	10.5	22.5	14.5	25.5	16.5	24.5	17.0	27.5	17.0	23.0	14.5
22	19.5	11.5	23.5	13.5	20.0	16.5	26.5	15.5	27.0	17.0	23.0	15.0
23	19.5	12.5	23.0	15.0	21.0	16.0	25.5	17.5	26.0	17.0	21.5	13.5
24	20.5	13.5	23.0	14.0	25.5	14.0	27.5	17.0	25.5	16.0	21.0	13.5
25	19.5	11.5	22.0	15.0	25.0	16.0	27.5	16.0	22.0	17.0	20.5	12.5
26	21.5	12.0	22.0	15.0	24.0	16.0	27.0	16.5	24.5	16.5	19.0	17.0
27	22.5	13.5	23.0	15.0	26.0	16.0	27.0	15.5	21.0	17.5	18.5	17.0
28	22.0	13.0	25.0	15.0	26.5	16.0	27.0	16.0	25.0	17.0	22.0	16.0
29	21.0	11.0	25.0	14.5	27.0	16.5	27.5	17.5	26.0	17.0	22.5	16.0
30	22.0	11.5	25.0	15.0	28.5	16.0	27.5	16.0	26.0	17.5	19.0	16.0
31	---	---	24.0	15.0	---	---	27.5	16.0	25.0	17.0	---	---
MONTH	22.5	9.0	25.0	11.0	28.5	12.5	29.0	15.5	27.5	14.5	26.5	12.5

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, at gaging station at bridge on Zayante Road, in town of Zayante, 0.4 mile upstream from Lompico Creek, 2.0 miles east of Ben Lomond, and 3.2 miles upstream from mouth.

DRAINAGE AREA.--11.1 sq mi.

PERIOD OF RECORD.--Water temperatures: February 1970 to September 1972.
Sediment records: February 1970 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Minimum, 2.0°C Jan. 9, 10.
Sediment concentrations: Maximum daily, 3,800 mg/l Dec. 22; minimum, 1 mg/l on several days.
Sediment discharge: Maximum daily, 272 tons Dec. 22; minimum daily, 0 tons on many days.

Period of record:
Water temperatures (1970-72): Minimum, 2.0°C Jan. 9, 10, 1972.
Sediment concentrations: Maximum daily, 4,720 mg/l Mar. 1, 1970; minimum daily, 1 mg/l on many days each year.
Sediment discharge: Maximum daily, 4,800 tons Mar. 1, 1970; minimum daily, 0 tons on many days each year.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.0	---	---	4.0	6.0	9.0	10.0	10.0	---	---	18.0	16.0
2	---	6.0	---	5.0	5.0	9.0	---	---	14.0	---	---	---
3	---	5.0	6.5	5.0	6.0	12.0	8.0	---	---	15.0	---	---
4	---	---	5.0	3.0	6.0	11.0	---	---	---	---	15.0	---
5	11.0	6.0	5.0	3.0	8.0	10.0	12.0	11.0	16.0	17.5	---	16.0
6	---	---	8.0	3.0	8.0	10.0	11.5	---	---	---	---	---
7	---	---	6.0	3.0	6.0	12.0	---	---	---	14.0	17.0	---
8	12.0	---	5.0	3.0	7.0	12.0	10.0	10.0	---	---	---	15.5
9	---	7.0	6.0	2.0	8.0	12.0	---	---	14.0	---	---	---
10	---	---	5.0	2.0	9.0	13.0	9.5	---	---	15.0	---	---
11	---	---	5.0	3.0	8.0	13.0	10.0	---	---	---	16.0	15.0
12	13.0	11.0	5.0	3.0	8.0	12.0	10.0	12.0	14.0	---	---	---
13	---	---	5.0	5.0	7.0	12.0	---	---	---	---	---	---
14	---	---	4.0	5.0	7.0	12.0	10.0	---	---	17.5	13.0	---
15	11.0	---	4.0	5.0	7.0	10.0	---	14.0	---	---	---	13.0
16	---	8.0	4.0	5.0	7.0	11.0	---	---	14.0	---	---	---
17	---	---	3.0	5.0	7.0	11.0	9.0	---	---	17.0	---	---
18	---	---	3.0	5.0	8.0	11.0	---	---	---	---	13.0	12.0
19	9.0	6.0	3.0	6.0	9.0	11.0	7.0	11.0	14.0	---	---	---
20	---	---	3.0	7.0	9.0	10.0	---	---	---	---	---	---
21	---	---	4.0	8.0	10.0	11.0	9.5	---	---	15.0	16.0	---
22	8.0	---	8.0	9.0	11.0	11.0	---	12.0	---	---	---	13.0
23	---	6.0	8.0	10.0	9.0	10.0	---	---	14.0	---	---	---
24	---	---	9.0	6.0	9.0	9.0	11.0	---	---	16.0	---	13.0
25	---	---	9.0	6.0	9.0	11.0	---	---	---	---	15.0	---
26	8.0	6.0	7.0	5.0	10.0	8.0	9.5	13.0	14.0	---	---	---
27	---	---	8.0	5.0	8.0	7.0	13.0	---	---	---	---	---
28	---	---	7.0	6.0	9.0	7.0	---	---	---	16.0	15.0	15.0
29	7.0	---	6.0	5.0	10.0	8.0	10.0	15.0	---	---	---	---
30	---	8.0	5.0	6.0	---	7.0	---	---	15.0	---	---	---
31	---	---	5.0	5.0	---	8.0	---	---	---	15.0	---	---
MONTH	---	---	5.5	5.0	8.0	10.5	---	---	---	---	---	---

11160300 ZAYANTE CREEK AT ZAYANTE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.57	10	.02	.30	6	0	.82	2	0
2	.53	10	.01	.33	6	.01	6.0	2380	56
3	.46	11	.01	.36	1	0	3.4	1180	11
4	.46	12	.01	.36	3	0	2.6	190	1.3
5	.43	12	.01	.33	4	0	1.6	45	.19
6	.38	13	.01	.36	4	0	1.4	12	.05
7	.38	14	.01	.36	3	0	1.3	11	.04
8	.38	15	.02	.41	2	0	1.2	8	.03
9	.33	16	.01	.46	1	0	1.2	6	.02
10	.28	17	.01	.46	1	0	1.3	7	.02
11	.30	18	.01	3.4	1230	17	1.3	4	.01
12	.33	20	.02	1.9	140	.72	2.9	29	.28
13	.30	17	.01	3.8	912	11	2.1	35	.20
14	.30	14	.01	1.5	10	.04	1.4	20	.08
15	.28	12	.01	.82	8	.02	1.3	10	.04
16	.30	12	.01	.75	6	.01	1.3	10	.04
17	.36	12	.01	.64	4	.01	1.2	14	.05
18	.33	11	.01	.64	2	0	1.2	5	.02
19	.33	11	.01	.64	2	0	1.2	4	.01
20	.36	12	.01	.64	2	0	1.2	6	.02
21	.30	12	.01	.71	2	0	5.2	1390	127
22	.33	13	.01	.82	2	0	15	3800	272
23	.36	13	.01	.82	2	0	4.6	245	3.0
24	.33	12	.01	.75	2	0	16	434	25
25	.33	11	.01	.75	1	0	25	360	27
26	.33	10	.01	.75	1	0	11	153	5.9
27	.30	9	.01	.82	1	0	27	507	53
28	.28	7	.01	1.4	46	.21	7.3	42	.92
29	.25	6	0	1.3	12	.05	4.9	12	.16
30	.25	6	0	1.0	5	.01	3.8	9	.09
31	.30	6	0	--	--	--	3.3	5	.04
TOTAL	10.75	--	.31	27.58	--	29.08	159.02	--	583.51

	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	3.0	4	.03	3.6	5	.05	1.6	4	.02
2	2.7	4	.03	3.4	5	.05	1.5	3	.01
3	2.3	5	.03	3.4	4	.04	1.4	5	.02
4	2.1	5	.03	3.6	21	.24	1.4	3	.01
5	2.0	9	.05	15	316	15	1.4	4	.02
6	2.0	14	.08	7.3	38	.75	1.3	11	.04
7	2.0	10	.05	5.1	14	.19	1.3	5	.02
8	1.9	7	.04	3.9	9	.09	1.3	4	.01
9	1.9	3	.02	3.6	8	.08	1.3	4	.01
10	1.9	3	.02	3.2	6	.05	1.3	4	.01
11	1.8	3	.01	2.9	6	.05	1.3	4	.01
12	1.8	4	.02	2.6	4	.03	1.2	7	.02
13	1.8	5	.02	2.5	5	.03	1.1	5	.01
14	1.7	4	.02	2.4	4	.03	1.1	5	.01
15	1.6	5	.02	2.2	3	.02	1.1	4	.01
16	1.6	5	.02	2.2	4	.02	1.1	4	.01
17	1.6	3	.01	2.1	2	.01	1.1	4	.01
18	1.6	4	.02	2.0	2	.01	1.0	6	.02
19	1.5	6	.02	2.0	3	.02	1.0	7	.02
20	1.5	5	.02	2.0	4	.02	.96	10	.03
21	1.5	4	.02	2.0	3	.02	.96	4	.01
22	1.5	4	.02	2.5	5	.03	1.1	4	.01
23	1.8	4	.02	2.0	4	.02	1.1	3	.01
24	1.5	2	.01	1.8	4	.02	1.0	4	.01
25	5.8	143	3.5	1.7	4	.02	.96	3	.01
26	3.8	65	.73	1.7	3	.01	.92	3	.01
27	17	169	10	1.6	5	.02	.96	4	.01
28	7.8	45	.95	1.6	8	.03	.96	3	.01
29	5.3	11	.16	1.7	8	.04	.96	3	.01
30	4.4	8	.10	--	--	--	.96	3	.01
31	3.9	7	.07	--	--	--	.96	3	.01
TOTAL	92.6	--	16.14	91.6	--	16.99	35.60	--	.43

11160300 ZAYANTE CREEK AT ZAYANTE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	.96	3	.01	.87	8	.02	.64	11	.02
2	.92	4	.01	.87	8	.02	.64	11	.02
3	.92	4	.01	.87	8	.02	.64	14	.02
4	.92	3	.01	.87	11	.03	.60	17	.03
5	1.5	10	.04	1.0	22	.06	.50	20	.03
6	1.9	7	.04	.96	12	.03	.38	19	.02
7	1.3	4	.01	.96	7	.02	.38	18	.02
8	1.1	3	.01	.96	4	.01	.57	17	.03
9	.96	3	.01	.92	5	.01	.64	16	.03
10	.92	3	.01	.92	5	.01	.75	14	.03
11	2.6	16	.14	.87	6	.01	.64	11	.02
12	4.5	49	.94	.82	7	.02	.57	8	.01
13	4.1	43	.51	.82	7	.02	.57	8	.01
14	2.2	30	.18	.82	8	.02	.57	9	.01
15	1.8	21	.10	.75	8	.02	.64	10	.02
16	1.6	12	.05	.71	8	.02	.60	10	.02
17	1.4	7	.03	.71	8	.02	.60	12	.02
18	1.3	5	.02	.71	18	.03	.60	15	.02
19	1.2	3	.01	.78	22	.05	.64	17	.03
20	1.1	4	.01	.82	17	.04	.64	16	.03
21	1.1	4	.01	.82	13	.03	.60	15	.02
22	1.1	6	.02	.78	8	.02	.64	14	.02
23	1.1	8	.02	.78	10	.02	.71	13	.02
24	1.4	13	.05	.75	11	.02	.64	14	.02
25	1.1	15	.04	.75	12	.02	.60	15	.02
26	1.1	18	.05	.75	13	.03	.57	16	.02
27	.96	28	.07	.71	13	.02	.46	16	.02
28	.92	23	.06	.68	13	.02	.41	16	.02
29	.92	12	.03	.68	13	.02	.33	15	.01
30	.92	10	.02	.64	13	.02	.35	15	.01
31	--	--	--	.64	12	.02	--	--	--
TOTAL	43.82	--	2.52	24.99	--	.72	17.12	--	.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	.40	20	.02	.10	20	.01	.12	10	0
2	.40	50	.05	.10	21	.01	.13	10	0
3	.45	50	.06	.15	21	.01	.15	10	0
4	.45	15	.02	.15	22	.01	.15	10	0
5	.44	11	.01	.15	18	.01	.15	10	0
6	.40	15	.02	.15	14	.01	.14	10	0
7	.40	18	.02	.15	10	0	.15	10	0
8	.30	16	.01	.18	10	0	.16	10	0
9	.30	15	.01	.18	10	0	.16	10	0
10	.30	13	.01	.18	10	0	.16	9	0
11	.20	13	.01	.15	10	0	.16	9	0
12	.20	14	.01	.14	11	0	.15	10	0
13	.15	14	.01	.13	13	0	.15	12	0
14	.15	14	.01	.12	14	0	.15	13	.01
15	.15	13	.01	.13	18	.01	.15	14	.01
16	.15	12	0	.16	22	.01	.16	14	.01
17	.15	11	0	.15	26	.01	.18	14	.01
18	.15	11	0	.15	30	.01	.18	14	.01
19	.15	11	0	.14	26	.01	.16	14	.01
20	.15	12	0	.15	22	.01	.15	14	.01
21	.15	12	0	.15	18	.01	.14	14	.01
22	.15	11	0	.14	22	.01	.14	14	.01
23	.15	9	0	.13	26	.01	.13	12	0
24	.15	7	0	.13	30	.01	.14	10	0
25	.15	9	0	.14	34	.01	.16	10	0
26	.15	11	0	.18	29	.01	.18	10	0
27	.15	13	.01	.18	25	.01	1.7	29	.17
28	.15	14	.01	.16	20	.01	.53	11	.02
29	.10	13	0	.14	18	.01	.36	10	.01
30	.10	11	0	.14	15	.01	.30	10	.01
31	.10	10	0	.13	12	0	--	--	--
TOTAL	6.94	--	.30	4.53	--	.22	6.84	--	.30

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 521.39
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 651.14

11160300 ZAYANTE CREEK AT ZAYANTE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.							
03...	1200	6.0	3.3	1210	11	88	95
22...	0800	8.0	11	4430	132	77	88
23...	0800	8.0	4.9	235	3.1	--	--
24...	1030	9.0	15	451	18	68	82
25...	1000	9.0	28	461	35	63	77
26...	1100	7.0	7.8	112	2.4	--	--
JAN.							
25...	1100	6.0	7.8	152	3.2	--	--
27...	0730	5.0	21	155	8.8	--	--
FEB.							
05...	1000	8.0	19	516	26	66	81
05...	1600	8.0	17	193	8.9	--	--
JULY							
03...	0715	15.0	.45	119	.14	--	--

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
DEC.						
03...	98	99	99	100	--	--
22...	95	95	96	100	--	--
23...	--	--	--	100	--	--
24...	91	96	96	97	100	--
25...	86	94	96	98	100	--
26...	--	--	--	91	100	--
JAN.						
25...	--	--	--	98	98	100
27...	--	--	--	98	99	100
FEB.						
05...	92	98	99	100	--	--
05...	--	--	--	100	--	--
JULY						
03...	--	--	--	99	100	--

PARTICLE-DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.							
03...	1430	6.5	5	3.3	1	4	19

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
DEC.							
03...	42	57	67	77	88	93	100

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.

LOCATION.--Lat 37°01'49", long 122°03'24", in Canada del Rincon Grant, Santa Cruz County, temperature recorder at gaging station on right bank, 0.5 mile south of Big Trees station on Southern Pacific Railroad, 1.6 miles downstream from Zayante Creek, and 4 miles north of Santa Cruz.
DRAINAGE AREA.--111 sq mi.
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 (partial-record station).
Water temperatures: May 1966 to September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 25.5°C July 14; minimum, 3.5°C Dec. 17-20.
Period of record:
Water temperatures: Maximum (1966-67, 1968-70, 1971-72), 25.5°C July 14, 1972; minimum (1966-70, 1971-72), 1.5°C Dec. 15, 1967.
REMARKS.--Recorder malfunction Nov. 15 to Dec. 6, July 28 to Aug. 3, Aug. 21 to Sept. 8.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

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 at highway bridge, 3.0 miles east of Pescadero, and 5.3 miles upstream from mouth.

DRAINAGE AREA.--45.9 sq mi.

PERIOD OF RECORD.--Water temperatures: April 1965 to September 1972.
Sediment records: Water year 1970-71 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 21.0°C July 13-15, 17; minimum, 3.0°C Jan. 7.

Period of record:
Water temperatures: Maximum, 21.5°C on several days in 1965-66, 1968; minimum (1965-66, 1967-72), 2.0°C Dec. 19, 1965.

REMARKS.--Recorder malfunction Apr. 9-18.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	10.0	9.0	6.0	8.5	7.0	6.0	5.0	5.0	4.0	10.5	9.0
2	13.5	10.0	9.0	6.0	9.0	7.5	6.0	5.5	4.0	3.5	11.5	10.5
3	14.0	10.0	8.5	5.5	8.0	7.5	6.0	4.5	6.0	4.0	13.5	11.5
4	14.0	10.0	8.5	5.5	8.0	7.0	5.0	4.0	7.5	6.0	14.0	12.0
5	15.0	11.0	8.5	5.5	7.0	6.0	4.5	3.5	9.0	7.5	13.5	11.5
6	15.0	11.0	8.5	6.0	8.5	7.0	4.5	3.5	9.5	9.0	13.5	11.5
7	15.0	12.0	9.0	6.5	7.5	6.0	4.5	3.0	9.5	8.0	13.5	11.0
8	14.5	11.5	8.5	7.0	6.0	5.0	5.5	4.0	9.0	8.5	12.5	12.0
9	14.0	10.5	9.5	7.0	7.0	5.5	5.0	4.0	10.0	9.0	13.5	12.0
10	14.0	12.0	9.0	7.5	7.0	6.0	5.5	4.0	10.0	9.5	15.0	12.5
11	15.0	12.0	10.5	9.0	7.0	5.5	5.0	3.5	9.5	8.5	15.5	13.0
12	14.5	11.0	10.0	9.5	7.0	6.0	5.0	4.0	9.0	8.0	14.5	13.0
13	14.5	11.0	10.0	9.5	6.5	5.5	6.0	4.0	9.5	8.0	15.0	13.0
14	13.5	10.5	9.5	8.0	5.5	5.0	6.5	4.5	9.5	8.5	15.0	12.5
15	13.0	11.0	8.0	7.0	6.5	5.0	6.5	5.0	10.0	9.0	14.5	12.0
16	12.5	10.5	9.5	6.5	5.0	4.0	6.0	4.5	10.0	9.0	15.0	12.0
17	12.0	9.0	8.0	6.0	5.0	3.5	6.0	4.5	9.0	8.0	14.5	12.5
18	11.5	8.0	9.0	6.0	4.5	3.0	6.5	5.5	10.0	8.5	15.0	13.0
19	11.0	8.0	8.5	6.5	4.5	3.0	7.5	6.5	10.5	9.5	14.5	12.0
20	12.0	9.0	7.5	6.0	4.5	3.0	8.5	7.0	11.0	9.5	14.0	12.5
21	11.5	8.0	7.0	5.5	6.0	4.0	9.0	8.0	11.5	10.0	14.5	12.5
22	10.0	8.0	7.5	6.0	8.5	6.0	10.0	9.0	11.5	10.5	13.5	12.5
23	11.0	9.5	9.0	7.5	8.5	8.5	10.0	8.0	11.0	10.0	13.5	12.0
24	11.0	8.0	8.5	7.0	9.0	8.5	8.0	7.0	12.0	10.5	13.5	11.0
25	10.5	7.0	9.0	7.5	9.0	8.5	8.0	7.0	11.5	10.5	14.0	12.0
26	10.0	7.0	8.0	7.0	8.5	8.0	7.5	5.5	11.5	9.5	12.0	9.5
27	10.5	8.5	9.5	7.0	8.5	8.0	6.5	5.5	10.5	9.5	11.5	8.5
28	9.0	7.0	10.0	9.5	8.5	7.0	6.5	6.0	12.0	10.5	11.5	10.0
29	8.0	6.0	10.0	10.0	7.0	7.0	6.5	5.0	12.0	10.0	13.0	10.0
30	8.0	5.5	10.0	8.5	7.0	6.0	5.0	4.5	---	---	13.0	10.0
31	9.0	7.0	---	---	6.5	5.5	4.5	4.0	---	---	12.5	11.0
MONTH	15.0	5.5	10.5	5.5	9.0	3.0	10.0	3.0	12.0	3.5	15.5	8.5

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

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, and 1.0 mile southwest of South San Francisco Post Office.

DRAINAGE AREA.--10.8 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1969 to September 1972.
Sediment records: October 1965 to September 1972 (seasonal record only for water year 1972).

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 1,440 mg/l Feb. 5; minimum daily, 6 mg/l on several days.
Sediment discharge: Maximum daily, 1,020 tons Feb. 5; minimum daily, 0.01 ton Jan. 18.

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 Jan. 21, 1967; minimum daily, 0 tons Nov. 11-13, 1967, May 29, June 2, 1969.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.5	---	14.0	---	10.0	---	---	25.5	25.0	---	25.0	23.5
2	---	18.5	12.0	---	12.0	---	---	25.0	19.0	---	17.5	---
3	---	---	9.0	---	---	17.0	---	---	---	23.5	---	---
4	---	---	---	7.5	10.5	---	20.5	22.0	---	---	27.0	---
5	21.0	17.5	---	---	---	---	---	---	---	---	---	23.0
6	---	---	---	---	---	---	---	---	23.5	---	---	---
7	---	---	10.0	---	---	17.0	21.5	---	---	19.0	---	---
8	20.5	---	---	---	13.0	---	---	---	---	---	26.5	---
9	---	16.5	---	---	---	---	---	24.0	18.0	---	---	---
10	---	---	11.5	---	---	23.0	---	---	---	---	---	---
11	---	14.0	---	9.0	16.5	---	13.0	---	---	28.0	34.0	---
12	23.0	16.5	10.0	---	---	---	15.5	27.0	---	---	---	23.5
13	---	---	---	---	---	---	---	---	25.0	---	---	---
14	---	---	11.0	12.0	---	22.0	22.5	---	---	31.0	---	---
15	16.5	---	---	---	15.5	---	---	---	---	---	23.5	21.5
16	---	15.0	---	---	---	---	---	---	24.0	---	---	---
17	---	---	16.0	---	---	21.0	---	---	---	---	---	---
18	---	---	---	9.0	17.0	---	20.0	---	---	---	19.0	---
19	18.0	15.0	---	---	---	---	---	18.0	---	---	---	23.0
20	---	---	---	---	---	---	---	---	24.5	---	---	---
21	---	---	8.0	13.5	17.5	21.0	21.0	---	---	---	---	---
22	18.0	---	---	---	---	---	---	---	---	---	---	21.0
23	---	14.5	---	---	---	18.0	---	20.0	24.0	---	---	---
24	---	---	10.0	---	13.0	22.0	---	---	---	---	---	---
25	---	---	---	8.0	---	---	23.0	---	---	23.0	---	---
26	16.5	13.0	---	---	---	---	---	20.0	26.0	---	---	19.0
27	---	---	---	---	---	---	---	---	---	---	---	19.0
28	---	---	11.0	11.5	17.0	20.0	21.0	---	---	22.0	---	---
29	13.0	---	---	---	---	---	---	---	---	---	25.5	24.0
30	---	14.5	---	---	---	---	---	17.0	29.0	---	---	---
31	---	---	9.5	---	---	20.5	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, OCTOBER 1971 TO MARCH 1972

	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	2.0	28	.15	1.6	15	.06	1.6	71	.31
2	1.6	25	.11	1.6	9	.04	56	1390	991
3	1.6	20	.09	1.6	10	.04	23	365	57
4	1.6	15	.06	1.6	10	.04	1.6	70	.30
5	1.6	12	.05	1.2	170	.55	1.6	40	.17
6	1.6	12	.05	.80	30	.06	5.3	124	5.4
7	1.6	13	.06	.80	25	.05	1.6	61	.26
8	1.6	13	.06	.80	20	.04	1.6	35	.15
9	1.5	20	.08	.80	20	.04	20	361	54
10	1.4	25	.09	.80	20	.04	14	417	61
11	1.2	30	.10	14	519	83	2.1	100	.57
12	1.2	35	.11	18	780	125	43	695	222
13	1.4	40	.15	45	1310	559	1.6	60	.26
14	1.5	50	.20	1.2	50	.16	5.9	217	8.6
15	1.6	100	.43	.80	40	.09	2.1	100	.57
16	1.6	60	.26	.80	32	.07	1.6	60	.26
17	1.6	40	.17	1.2	50	.16	1.6	46	.20
18	1.6	30	.13	1.2	40	.13	1.6	40	.17
19	1.6	27	.12	1.2	95	.31	1.2	40	.13
20	1.8	30	.15	1.2	30	.10	1.2	35	.11
21	2.0	35	.19	1.2	25	.08	15	267	45
22	2.1	18	.10	.80	25	.05	47	932	301
23	2.0	16	.09	.80	20	.04	3.6	175	4.4
24	2.0	14	.08	.80	20	.04	87	1300	972
25	1.8	12	.06	.80	20	.04	65	1200	419
26	1.6	10	.04	3.0	72	1.3	28	481	112
27	1.6	20	.09	1.3	48	.22	16	375	40
28	1.6	40	.17	45	1320	505	.60	72	.12
29	1.6	50	.22	3.8	379	5.3	4.2	228	6.7
30	1.6	30	.13	2.1	90	.51	.60	70	.11
31	1.6	20	.09	--	--	--	.60	52	.08
TOTAL	50.7	--	3.88	155.80	--	1281.56	455.80	--	3302.87

	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	.60	45	.07	1.6	16	.07	1.2	45	.15
2	.60	35	.06	1.6	16	.07	5.9	40	.64
3	.60	28	.05	9.1	108	7.1	5.9	49	1.3
4	.60	19	.03	41	407	107	2.1	35	.20
5	.60	18	.03	116	1440	1020	1.2	20	.06
6	.60	18	.03	17	105	6.0	2.1	35	.20
7	.60	18	.03	6.7	30	.54	1.6	32	.14
8	.60	16	.03	4.4	23	.27	1.6	25	.11
9	.43	16	.02	3.8	15	.15	1.6	15	.06
10	.43	16	.02	3.2	10	.09	1.6	10	.04
11	.60	16	.03	2.7	6	.04	1.2	10	.03
12	.60	15	.02	2.7	6	.04	1.2	10	.03
13	.60	15	.02	2.1	6	.03	1.6	10	.04
14	.60	14	.02	2.1	6	.03	1.6	50	.22
15	.60	13	.02	2.1	6	.03	1.2	10	.03
16	1.2	12	.04	2.1	6	.03	1.2	8	.03
17	2.1	10	.06	2.1	8	.05	1.2	7	.02
18	.60	9	.01	2.1	8	.05	1.2	10	.03
19	.80	10	.02	2.1	8	.05	1.2	12	.04
20	1.6	20	.09	2.7	30	.22	1.2	15	.05
21	4.5	116	7.7	6.8	65	5.5	1.6	18	.08
22	11	178	20	16	266	83	6.6	74	2.1
23	15	309	48	3.7	39	.53	2.7	160	1.2
24	3.2	45	.39	4.0	610	23	4.3	130	1.5
25	30	408	90	1.2	60	.19	3.0	65	.53
26	10	164	16	1.2	30	.10	2.0	65	.35
27	27	357	149	1.2	15	.05	2.0	65	.35
28	2.1	17	.10	6.1	45	3.1	2.0	65	.35
29	1.6	17	.07	3.3	77	.90	2.0	45	.24
30	1.6	16	.07	--	--	--	2.0	25	.14
31	1.6	16	.07	--	--	--	1.2	9	.03
TOTAL	122.56	--	332.10	270.7	--	1258.23	67.0	--	10.29

TOTAL DISCHARGE FOR PERIOD OCT. 1, 1971, TO MAR. 31, 1972 (CFS-DAYS) 1122.56
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD OCT. 1, 1971, TO MAR. 31, 1972 (TONS) 6188.93

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
OCT.										
15...	1210	16.5	1.6	--	1110	4.8	49	65	81	89
NOV.										
05...	1130	17.5	--	1.6	2750	12	39	57	72	93
11...	0810	14.0	--	128	3420	1180	13	19	24	31
19...	1210	15.0	--	1.6	753	3.3	54	73	87	98
DEC.										
03...	1200	9.0	--	124	1120	375	27	36	43	51
12...	1030	10.0	--	145	1370	536	41	56	68	76
24...	1655	10.0	--	83	878	197	38	49	58	67
APR.										
11...	0900	13.0	--	54	1200	175	15	19	23	26

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. FALL DIAM. % FINER THAN 1.00 MM
OCT.										
15...	93	--	98	--	99	--	100	--	--	--
NOV.										
05...	97	98	--	99	--	100	--	--	--	--
11...	40	51	--	71	--	99	--	100	--	--
19...	99	--	99	--	100	--	--	--	--	--
DEC.										
03...	56	--	73	--	81	--	98	--	100	--
12...	81	--	91	--	95	--	99	--	100	--
24...	70	--	85	--	91	--	99	--	100	--
APR.										
11...	29	36	--	74	--	87	--	99	--	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 mile downstream from Bear Creek, 5.0 miles upstream from Coyote Creek Dam, and 6.4 miles northeast of Gilroy.

DRAINAGE AREA.--109 sq mi.

PERIOD OF RECORD.--Water temperatures: December 1964 to September 1972.
Sediment records: December 1964 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 45 mg/l (estimated) Dec. 23; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 24 tons (estimated) Dec. 25; minimum daily, 0 tons 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 Jan. 19, 1969; minimum daily, 0 tons on many days each year.

REMARKS.--No flow Oct. 1 to Dec. 21, July 30 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	6.5	---	---	---	19.5	---	---	---
2	---	---	---	---	---	14.0	---	22.0	---	---	---	---
3	---	---	---	---	9.5	---	16.5	18.0	18.5	---	---	---
4	---	---	---	---	---	15.5	10.0	---	---	---	---	---
5	---	---	---	5.0	9.0	---	---	---	---	---	---	---
6	---	---	---	5.5	10.0	16.5	16.0	---	---	---	---	---
7	---	---	---	---	11.0	---	---	---	16.5	---	---	---
8	---	---	---	---	---	14.0	---	15.5	---	18.0	---	---
9	---	---	---	---	11.0	---	---	---	---	---	---	---
10	---	---	---	---	---	---	16.5	14.5	---	---	---	---
11	---	---	---	---	---	16.5	14.0	---	---	---	---	---
12	---	---	---	---	12.5	---	12.5	---	---	21.5	---	---
13	---	---	---	---	---	16.5	14.5	---	22.5	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	17.0	---	---	21.0	---	---
16	---	---	---	---	13.0	---	---	15.5	18.5	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	13.0	---	---	---	---	---
19	---	---	---	---	12.0	---	---	---	---	17.0	---	---
20	---	---	---	---	---	17.0	---	17.0	---	---	---	---
21	---	---	---	---	---	---	15.0	---	---	---	---	---
22	---	---	---	---	---	13.5	---	14.5	18.5	---	---	---
23	---	---	---	---	12.0	---	---	---	---	---	---	---
24	---	---	10.0	---	11.0	---	14.0	17.5	18.5	17.0	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	7.5	---	10.5	---	17.0	---	---	18.5	---	---
27	---	---	8.5	8.0	---	12.5	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	19.5	---	---	---
29	---	---	9.0	---	---	---	14.0	---	---	20.5	---	---
30	---	---	---	---	---	16.5	---	19.5	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	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	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
DEC. 02...	1300	5	.00	1	3	9	18	28	41	60	85	100

11169800 COYOTE CREEK NEAR GILROY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							0	0	0
22							1.1	2	.20
23							31	45	4.1
24							17	5	.23
25							207	31	24
26							96	7	2.2
27							209	13	8.0
28							93	5	1.3
29							43	2	.23
30							26	2	.14
31							18	2	.10
TOTAL	0	--	0	0	--	0	741.1	--	40.50

	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	13	2	.07	18	3	.15	4.2	1	.01
2	10	1	.03	15	2	.08	3.9	1	.01
3	8.5	1	.02	12	2	.06	3.9	1	.01
4	6.5	1	.02	12	2	.06	3.7	1	.01
5	5.6	1	.02	90	13	5.1	3.6	1	.01
6	5.1	1	.01	115	7	2.2	3.5	1	.01
7	4.7	1	.01	51	1	.14	3.3	2	.02
8	4.3	1	.01	32	1	.09	3.3	3	.03
9	3.9	1	.01	23	1	.06	3.2	3	.03
10	3.6	1	.01	18	1	.05	3.1	4	.03
11	3.4	1	.01	14	1	.04	3.1	4	.03
12	3.3	1	.01	11	1	.03	3.1	3	.03
13	3.3	1	.01	10	1	.03	3.1	3	.03
14	3.1	1	.01	8.7	1	.02	2.9	3	.02
15	2.9	1	.01	7.8	1	.02	2.9	2	.02
16	2.9	1	.01	7.0	1	.02	2.7	2	.01
17	2.7	1	.01	6.4	1	.02	2.4	1	.01
18	2.7	1	.01	6.1	1	.02	2.4	1	.01
19	2.5	1	.01	5.6	1	.02	2.2	1	.01
20	2.5	1	.01	5.2	1	.01	2.0	1	.01
21	2.5	1	.01	5.0	1	.01	1.9	1	.01
22	2.5	1	.01	5.4	1	.01	1.9	2	.01
23	2.5	1	.01	5.2	1	.01	1.9	2	.01
24	2.6	1	.01	4.8	1	.01	1.8	2	.01
25	3.1	1	.01	4.5	1	.01	1.7	1	0
26	4.3	2	.02	4.3	2	.02	1.7	1	0
27	39	10	2.0	4.1	2	.02	1.5	1	0
28	60	10	1.8	4.1	2	.02	1.4	1	0
29	40	6	.65	4.1	1	.01	1.5	2	.01
30	28	4	.30	--	--	--	1.4	2	.01
31	22	3	.18	--	--	--	1.5	2	.01
TOTAL	301.0	--	5.31	509.3	--	8.34	80.7	--	.42

11169800 COYOTE CREEK NEAR GILROY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1.4	2	.01	1.5	2	.01	.23	13	.01
2	1.3	2	.01	1.6	2	.01	.21	10	.01
3	1.4	2	.01	1.4	1	0	.24	9	.01
4	1.2	2	.01	1.4	1	0	.22	6	0
5	1.3	2	.01	1.2	1	0	.20	3	0
6	1.3	2	.01	1.1	2	.01	.21	2	0
7	1.5	2	.01	1.1	3	.01	.19	1	0
8	1.4	2	.01	1.1	5	.01	.18	1	0
9	1.3	3	.01	1.0	3	.01	.22	1	0
10	1.2	4	.01	1.0	2	.01	.18	2	0
11	1.2	2	.01	1.0	2	.01	.16	2	0
12	1.3	1	0	.99	2	.01	.17	3	0
13	1.7	4	.02	.86	2	0	.16	4	0
14	1.9	4	.02	.83	2	0	.14	4	0
15	1.7	2	.01	.81	2	0	.16	4	0
16	1.5	2	.01	.78	2	0	.15	4	0
17	1.3	3	.01	.75	2	0	.13	4	0
18	1.1	3	.01	.67	2	0	.16	4	0
19	1.1	3	.01	.68	1	0	.14	4	0
20	1.0	2	.01	.68	1	0	.13	4	0
21	1.1	2	.01	.69	2	0	.13	4	0
22	1.1	2	.01	.61	3	0	.14	4	0
23	1.1	2	.01	.64	3	.01	.14	3	0
24	1.2	2	.01	.64	2	0	.13	3	0
25	1.2	1	0	.61	2	0	.17	3	0
26	1.2	1	0	.48	2	0	.16	4	0
27	1.2	1	0	.46	2	0	.13	4	0
28	1.4	3	.01	.44	2	0	.15	5	0
29	1.4	3	.01	.40	2	0	.12	5	0
30	1.5	3	.01	.24	2	0	.11	5	0
31	--	--	--	.25	3	0	--	--	--
TOTAL	39.5	--	.28	25.91	--	.10	4.96	--	.03

	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	5	0						
2	.12	5	0						
3	.11	6	0						
4	.12	6	0						
5	.12	6	0						
6	.11	6	0						
7	.09	6	0						
8	.11	6	0						
9	.11	6	0						
10	.09	6	0						
11	.08	6	0						
12	.06	6	0						
13	.06	5	0						
14	.06	5	0						
15	.05	5	0						
16	.05	5	0						
17	.06	4	0						
18	.06	4	0						
19	.05	4	0						
20	.06	4	0						
21	.05	4	0						
22	.05	5	0						
23	.04	5	0						
24	.03	5	0						
25	.03	4	0						
26	.02	4	0						
27	.02	5	0						
28	.01	6	0						
29	.01	9	0						
30	0	0	0						
31	0	0	0						
TOTAL	1.96	--	0	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1704.43
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 54.98

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 downstream from highway bridge, 1.1 miles upstream from Dry Creek, 1.3 miles downstream from Del Valle Dam, 4.1 miles south of Livermore, and 6.9 miles southeast of Pleasanton.
DRAINAGE AREA.--147 sq mi.
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 September 1972.
Sediment records: October 1962 to September 1967.
EXTREMES.--1971-72:
Water temperatures: Maximum, 27.5°C Aug. 21; minimum, 5.5°C Jan. 7.
Period of record:
Water temperatures: Maximum, 30.5°C June 14, 1966; minimum, 4.0°C Jan. 2, Dec. 28, 1966, Dec. 14, 1967.
REMARKS.--Recorder stopped Oct. 1 to Nov. 4, Feb. 14 to Mar. 1.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	11.0	9.5	7.0	6.0	8.5	7.0	---	---
2	---	---	---	---	11.0	10.5	6.5	6.5	7.5	6.0	14.5	12.5
3	---	---	---	---	10.5	10.0	6.5	6.0	7.5	6.5	15.5	13.5
4	---	---	---	---	10.5	9.5	6.0	6.0	7.5	7.0	16.0	14.0
5	---	---	15.0	13.0	10.0	9.0	6.5	6.0	8.0	7.5	19.5	14.0
6	---	---	15.0	13.0	10.5	10.0	6.0	6.0	9.5	8.0	18.0	16.0
7	---	---	14.5	13.0	10.0	8.0	6.5	5.5	10.5	8.5	20.5	14.0
8	---	---	14.0	13.0	8.5	8.0	6.5	6.0	10.0	9.0	17.5	16.5
9	---	---	14.0	13.5	9.0	8.0	7.0	6.0	11.5	9.5	16.5	15.0
10	---	---	15.0	13.5	8.5	8.0	6.5	6.0	11.5	10.0	17.0	15.5
11	---	---	14.5	14.0	9.0	8.0	6.5	6.0	10.5	10.0	20.0	16.0
12	---	---	14.0	14.0	8.5	8.0	6.5	6.0	13.5	10.0	18.0	17.0
13	---	---	14.0	13.5	8.5	7.5	7.5	6.5	12.0	11.5	18.0	16.0
14	---	---	13.5	13.0	8.0	7.5	9.5	6.5	---	---	18.0	15.0
15	---	---	13.5	12.5	8.5	7.5	8.5	7.5	---	---	21.0	15.0
16	---	---	13.5	11.5	8.0	7.0	8.5	7.5	---	---	22.0	15.5
17	---	---	11.5	11.0	7.5	6.5	8.0	7.0	---	---	22.0	16.0
18	---	---	11.5	11.0	7.5	7.0	8.5	8.0	---	---	20.0	14.5
19	---	---	11.5	11.0	7.5	7.0	9.0	8.0	---	---	19.5	14.0
20	---	---	11.0	10.5	7.5	7.0	8.5	8.0	---	---	19.0	14.0
21	---	---	11.5	10.5	7.5	7.0	9.5	8.5	---	---	19.5	16.0
22	---	---	11.0	11.0	8.0	7.5	9.0	9.0	---	---	17.0	14.5
23	---	---	12.0	11.0	7.5	7.5	9.5	8.5	---	---	17.0	13.0
24	---	---	11.5	11.0	8.0	7.5	9.0	8.5	---	---	18.0	12.5
25	---	---	11.5	11.0	8.0	7.5	9.0	8.5	---	---	18.5	15.0
26	---	---	11.5	11.0	8.0	7.5	9.0	9.0	---	---	16.5	11.0
27	---	---	11.5	11.0	7.5	7.5	9.5	8.5	---	---	16.5	10.5
28	---	---	11.5	11.5	8.0	7.0	9.0	8.5	---	---	16.0	10.5
29	---	---	11.5	11.0	7.0	6.5	9.5	8.5	---	---	18.0	12.0
30	---	---	11.0	10.0	7.0	6.5	9.0	8.5	---	---	16.5	11.5
31	---	---	---	---	7.0	6.5	9.0	7.5	---	---	14.5	13.0
MONTH	---	---	15.0	10.0	11.0	6.5	9.5	5.5	---	---	22.0	10.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	14.0	20.0	15.5	23.0	16.0	25.5	20.5	24.0	20.0	26.0	21.0
2	17.0	14.0	20.5	16.5	21.5	17.0	23.0	16.0	25.0	19.0	25.0	21.0
3	18.5	15.0	20.0	18.0	21.0	16.5	24.0	19.0	24.0	20.0	24.0	21.0
4	17.5	17.0	19.0	17.5	23.5	16.0	23.5	19.5	24.5	20.0	23.5	21.0
5	17.5	15.0	18.0	17.0	25.5	18.0	23.5	19.5	26.0	20.0	24.5	21.5
6	16.0	15.0	18.0	17.0	22.0	19.0	23.0	19.0	26.5	21.5	24.0	21.0
7	17.0	14.0	17.0	16.5	23.5	18.0	24.0	18.5	26.0	21.5	24.0	20.0
8	16.0	15.0	17.0	16.0	23.5	18.5	24.0	18.0	25.5	20.5	23.5	20.5
9	16.0	14.5	17.5	16.0	19.0	17.5	23.0	19.0	25.0	21.0	22.5	20.0
10	16.0	14.5	20.5	14.5	21.0	16.5	23.0	18.0	25.5	20.5	22.0	19.0
11	15.5	15.0	22.0	14.5	22.5	16.5	21.0	17.0	25.0	20.0	20.5	18.0
12	15.0	14.5	23.5	15.5	24.5	17.5	21.5	18.5	24.5	20.0	20.0	15.0
13	15.5	12.5	24.5	17.0	24.5	18.0	22.0	19.0	23.0	19.5	21.5	18.0
14	15.5	13.5	24.5	18.0	23.0	17.0	23.5	19.5	21.5	19.0	21.5	18.0
15	18.5	13.5	25.0	18.0	24.5	17.5	21.0	19.0	21.5	18.0	21.0	18.5
16	17.0	15.5	22.5	18.5	22.0	17.5	21.0	19.0	22.5	17.5	20.5	19.0
17	16.5	13.5	21.0	17.0	24.0	17.0	22.0	19.0	23.0	18.5	21.5	19.0
18	15.5	14.0	20.5	16.0	24.5	18.0	20.5	19.0	22.0	18.5	20.0	18.5
19	16.5	12.5	16.5	15.0	24.0	18.5	20.0	18.5	25.0	18.5	19.5	17.5
20	15.5	13.0	16.0	15.5	25.0	19.0	20.0	18.5	26.5	19.0	20.5	15.5
21	17.5	13.5	17.0	15.5	24.5	19.0	20.0	19.0	27.5	18.5	17.0	14.0
22	16.5	14.5	22.0	15.5	23.5	19.0	20.5	19.0	26.5	19.5	16.0	14.0
23	17.5	14.5	20.5	16.5	20.0	18.0	20.0	19.0	25.0	19.0	15.5	13.0
24	17.0	16.0	20.5	14.5	22.5	17.0	22.0	19.0	24.0	20.5	16.5	13.5
25	17.0	15.0	20.0	14.5	23.0	17.5	22.5	19.0	24.5	20.0	15.0	13.0
26	18.0	15.5	20.0	15.5	24.0	18.0	23.0	19.0	25.0	20.5	15.0	14.5
27	18.5	16.0	20.5	14.5	24.0	17.5	24.0	18.0	26.0	21.0	15.5	14.0
28	17.5	16.5	22.0	15.0	24.0	17.5	24.5	19.5	25.0	20.0	16.5	14.5
29	16.5	15.5	23.0	16.5	25.5	17.5	24.5	21.0	26.5	21.0	16.5	15.0
30	18.0	15.0	22.5	16.5	26.5	19.5	24.0	21.0	26.5	22.0	16.0	15.0
31	---	---	21.5	16.5	---	---	24.5	20.5	26.0	21.5	---	---
MONTH	18.5	12.5	25.0	14.5	26.5	16.0	25.5	16.0	27.5	17.5	26.0	13.0

11179000 ALAMEDA CREEK NEAR NILES, CALIF.

LOCATION.--Lat 37°35'14", long 121°57'35", in NW¼ sec.15, T.4 S., R.1 W., Alameda County, at gaging station 0.3 mile downstream from railroad bridge, and 1.2 miles northeast of Niles.

DRAINAGE AREA.--633 sq mi.

PERIOD OF RECORD.--Chemical analyses: January to November 1906, water years 1952-53 (partial-record station), October 1953 to September 1967, October 1968 to August 1969.
Water temperatures: July 1956 to September 1972.
Sediment records: January 1957 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 24.5°C July 17; minimum, 5.5°C Jan. 1, 4, 5, 31.
Sediment concentrations: Maximum daily, 840 mg/l Dec. 25; minimum daily, 2 mg/l Oct. 30.
Sediment discharge: Maximum daily, 617 tons Dec. 25; minimum daily, 0.04 ton Oct. 30.

Period of record:
Water temperatures: Maximum (1956-62, 1964-72), 31.0°C June 1, 1960; minimum, 3.0°C Jan. 5, 1961, Jan. 14, 1963.
Sediment concentrations: Maximum daily, 5,340 mg/l Apr. 3, 1958; minimum daily, no flow for many days in 1957, 1959-61.
Sediment discharge: Maximum daily, 285,000 tons Apr. 3, 1958; minimum daily, 0 tons on many days in 1957, 1959-61.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.0	---	---	5.5	6.0	12.5	16.0	16.0	---	21.5	---	---
2	---	10.5	10.0	8.0	6.0	13.5	17.5	17.5	18.5	---	20.0	20.5
3	17.0	---	---	7.0	8.0	13.5	18.0	20.0	---	22.5	---	---
4	---	10.0	9.0	5.5	9.0	15.5	17.5	17.0	21.5	---	22.5	21.0
5	15.5	---	---	5.5	9.0	14.0	16.0	16.0	---	22.5	---	---
6	---	12.0	11.0	6.0	11.0	17.5	15.0	16.0	20.0	---	22.0	20.5
7	16.0	---	---	6.0	9.0	17.5	16.0	15.0	---	20.5	---	---
8	---	11.5	8.0	6.0	9.0	16.5	14.5	---	---	---	21.0	20.5
9	17.5	---	---	6.5	12.0	14.5	16.0	18.5	---	19.5	---	---
10	---	11.5	7.5	7.5	10.5	17.5	17.0	---	---	---	21.5	18.5
11	15.5	---	8.5	6.0	10.5	17.5	14.5	17.5	---	19.0	---	---
12	---	13.0	8.5	7.0	11.0	16.0	14.0	---	---	---	20.0	18.0
13	15.5	---	8.0	8.0	11.0	18.0	14.5	18.5	---	22.0	---	---
14	---	10.5	7.0	8.5	12.0	15.5	14.0	---	19.5	---	19.0	19.5
15	14.0	---	7.0	7.0	11.5	17.0	17.0	21.5	---	23.0	---	---
16	---	10.0	6.5	7.0	11.0	16.0	16.0	---	18.0	---	18.0	18.5
17	12.0	---	7.0	7.0	11.0	18.0	15.0	18.5	---	24.5	---	---
18	---	10.0	7.0	7.0	12.0	17.5	14.5	---	19.0	---	19.0	17.5
19	11.0	---	7.0	8.5	13.0	17.5	14.5	16.0	---	23.0	---	---
20	---	9.5	6.0	9.5	12.0	16.5	15.5	---	19.5	---	20.0	17.0
21	12.0	---	6.0	10.0	13.0	17.5	15.0	17.5	---	22.5	---	---
22	---	10.5	8.5	11.5	13.5	15.0	16.0	---	19.0	---	21.0	17.0
23	13.5	---	10.0	11.0	12.5	15.0	15.5	17.0	---	20.0	---	---
24	---	11.0	10.0	7.0	12.5	16.0	16.0	---	---	---	20.0	15.5
25	11.5	---	10.0	8.5	12.0	16.0	16.0	17.0	18.0	23.5	---	---
26	---	11.0	8.0	8.5	14.0	14.5	17.0	---	---	---	---	17.0
27	12.5	---	8.0	8.5	14.5	13.0	19.0	17.0	19.0	19.5	---	17.5
28	---	12.0	9.0	8.0	13.0	15.5	18.0	---	---	---	---	17.5
29	8.5	---	8.0	7.0	12.5	15.0	14.0	18.0	19.5	20.0	---	---
30	---	11.0	8.0	8.0	---	14.0	18.0	---	22.5	---	---	18.0
31	11.0	---	7.5	5.5	---	13.0	---	19.0	---	22.5	21.0	---
MONTH	---	---	8.0	7.5	11.0	15.5	16.0	---	---	---	---	---

11179000 ALAMEDA CREEK NEAR NILES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	25	11	.74	32	15	1.3	30	13	1.1
2	24	7	.45	36	16	1.6	56	118	29
3	24	4	.26	28	13	.98	51	145	22
4	23	5	.31	31	10	.88	31	50	4.2
5	13	8	.28	48	13	1.7	19	15	.77
6	12	11	.36	50	12	1.6	26	26	2.7
7	10	10	.27	51	12	1.7	61	50	8.2
8	9.5	5	.13	52	11	1.5	62	25	4.2
9	8.4	5	.11	53	11	1.6	61	15	2.5
10	7.1	7	.13	50	16	2.2	64	23	4.0
11	6.8	5	.09	52	23	3.2	63	22	3.7
12	6.9	5	.09	59	20	3.3	69	50	11
13	6.2	11	.18	111	91	28	81	55	12
14	5.8	13	.20	111	45	14	105	55	16
15	6.0	12	.19	89	14	3.6	104	35	9.8
16	7.0	10	.19	35	10	.95	101	30	8.2
17	8.2	8	.18	54	18	2.8	63	20	3.4
18	8.4	7	.16	33	7	.62	63	20	3.4
19	8.5	8	.18	34	6	.55	62	19	3.2
20	8.8	9	.21	33	7	.62	49	18	2.4
21	9.3	8	.20	32	8	.69	53	34	6.5
22	9.2	7	.17	30	9	.73	80	119	33
23	8.7	7	.16	31	7	.59	94	257	68
24	8.0	12	.26	33	8	.71	70	414	114
25	9.1	15	.37	32	11	.95	247	840	617
26	7.5	10	.20	27	6	.44	100	465	144
27	7.4	10	.20	23	6	.37	64	100	16
28	5.8	11	.17	24	17	1.2	80	92	24
29	5.5	4	.06	28	26	1.9	115	90	28
30	6.8	2	.04	25	12	.84	113	39	12
31	12	11	.36	--	--	--	74	35	7.3
TOTAL	317.9	--	6.90	1327	--	81.12	2311	--	1221.57

	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	23	21	1.3	13	12	.42	96	33	8.6
2	22	10	.59	12	12	.43	96	34	8.8
3	18	5	.24	28	67	5.1	99	26	6.9
4	41	13	1.8	33	51	4.5	75	32	6.5
5	46	25	3.1	101	159	54	45	22	2.7
6	45	24	2.9	59	133	23	43	24	2.8
7	42	22	2.5	26	67	4.7	85	51	12
8	47	25	3.2	21	32	1.9	66	36	6.4
9	56	30	4.5	20	18	.97	93	38	9.5
10	70	32	6.0	18	24	1.2	65	31	5.4
11	97	37	9.7	16	23	.99	101	31	8.5
12	21	28	1.6	15	24	.97	104	41	12
13	31	28	2.3	15	20	.81	80	32	6.9
14	41	34	3.8	14	20	.76	71	30	5.8
15	41	28	3.1	14	19	.72	63	31	5.3
16	40	22	2.4	13	11	.39	52	35	4.9
17	40	22	2.4	13	10	.35	51	28	3.9
18	16	22	.95	30	22	1.7	56	28	4.2
19	11	14	.42	30	23	1.9	59	33	5.3
20	11	16	.48	23	23	1.4	61	36	5.9
21	11	18	.53	18	17	.83	57	34	5.2
22	11	20	.59	28	31	3.1	59	36	5.7
23	62	47	7.9	19	38	1.9	57	31	4.8
24	35	31	3.5	17	16	.72	52	32	4.5
25	17	21	1.4	75	64	14	51	42	5.8
26	27	26	2.1	96	41	11	52	36	5.1
27	88	382	133	96	40	10	56	38	5.7
28	49	383	57	99	37	9.9	49	38	5.0
29	22	122	7.2	103	38	11	36	34	3.3
30	17	46	2.1	--	--	--	33	33	2.9
31	14	16	.60	--	--	--	37	30	3.0
TOTAL	1112	--	269.20	1065	--	168.66	2000	--	183.3

11179000 ALAMEDA CREEK NEAR NILES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	40	32	3.5	56	43	6.5	68	70	13
2	42	38	4.3	38	31	3.2	66	66	12
3	39	36	3.8	36	23	2.2	66	61	11
4	39	30	3.2	36	29	2.8	69	66	12
5	40	31	3.3	36	29	2.8	71	61	12
6	49	40	5.5	38	25	2.6	73	43	8.5
7	47	33	4.2	37	30	3.0	65	31	5.4
8	54	38	5.5	39	32	3.4	53	31	4.4
9	54	38	5.5	41	30	3.3	59	42	6.7
10	53	33	4.7	49	29	3.8	72	51	9.9
11	64	43	8.1	50	38	5.1	66	48	8.6
12	81	50	11	50	39	5.3	62	36	6.0
13	85	51	12	51	51	7.0	60	31	5.0
14	72	38	7.4	60	51	8.3	48	37	4.8
15	71	33	6.3	71	50	9.6	60	39	6.3
16	72	40	7.8	68	55	10	61	33	5.4
17	70	38	7.2	69	52	9.7	63	30	5.1
18	68	37	6.8	69	50	9.3	63	33	5.6
19	67	40	7.2	71	60	12	61	35	5.8
20	68	44	8.1	72	64	12	63	31	5.3
21	67	46	8.3	74	61	12	66	28	5.0
22	68	41	7.5	72	58	11	64	31	5.4
23	69	47	8.8	71	55	11	65	34	6.0
24	74	45	9.2	68	53	9.7	62	33	5.5
25	71	35	6.7	72	59	11	69	27	5.0
26	66	40	7.1	70	63	12	68	25	4.6
27	64	36	6.2	70	58	11	63	33	5.6
28	66	35	6.2	72	53	10	63	36	6.1
29	66	41	7.3	71	58	11	62	30	5.0
30	67	41	7.4	69	64	12	60	29	4.7
31	--	--	--	71	68	13	--	--	--
TOTAL	1853	--	200.1	1817	--	245.6	1911	--	205.7

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	64	37	6.4	63	33	5.6	66	39	6.9
2	65	38	6.7	66	42	7.5	68	33	6.1
3	64	25	4.3	71	35	6.7	66	29	5.2
4	63	17	2.9	71	37	7.1	66	35	6.2
5	65	22	3.9	70	42	7.9	68	40	7.3
6	63	27	4.6	71	40	7.7	70	34	6.4
7	64	27	4.7	71	38	7.3	68	27	5.0
8	65	24	4.2	70	40	7.6	67	25	4.5
9	65	36	6.3	68	41	7.5	67	29	5.2
10	63	38	6.5	68	36	6.6	67	30	5.4
11	15	24	1.1	68	35	6.4	69	26	4.8
12	6.4	20	.35	70	43	8.1	69	28	5.2
13	44	30	3.6	71	46	8.8	68	28	5.1
14	58	34	5.3	68	38	7.0	67	20	3.6
15	63	30	5.1	68	29	5.3	66	18	3.2
16	66	29	5.2	70	36	6.8	63	26	4.4
17	67	37	6.7	54	40	5.8	63	27	4.6
18	69	37	6.9	61	33	5.4	66	22	3.9
19	70	26	4.9	71	31	5.9	68	19	3.5
20	69	18	3.4	70	36	6.8	61	17	2.8
21	66	23	4.1	71	37	7.1	59	13	2.1
22	65	29	5.1	73	42	8.3	57	16	2.5
23	66	28	5.0	63	44	7.5	57	18	2.8
24	69	21	3.9	61	34	5.6	57	10	1.5
25	62	18	3.0	58	27	4.2	14	7	.24
26	67	30	5.4	60	31	5.0	6.8	14	.26
27	74	45	9.0	46	37	4.6	15	9	.38
28	71	42	8.1	63	33	5.6	20	10	.54
29	68	38	7.0	61	26	4.3	14	17	.64
30	67	30	5.4	61	29	4.8	41	18	2.0
31	65	25	4.4	66	37	6.6	--	--	--
TOTAL	1908.4	--	153.45	2043	--	201.4	1673.8	--	112.26

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 19339.1
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 3049.26

11179000 ALAMEDA CREEK NEAR NILES, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.							
24...	1130	10.0	58	369	58	83	94
25...	1200	10.0	266	470	338	71	81
JAN.							
28...	1215	8.0	42	350	40	78	94
29...	1230	7.0	23	112	7.0	--	--
MAR.							
03...	1000	13.5	102	25	6.9	--	--
JULY							
27...	1000	19.5	76	45	9.2	--	--
AUG.							
02...	1050	20.0	66	45	8.0	--	--

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
DEC.						
24...	95	96	97	98	100	--
25...	86	92	94	96	98	100
JAN.						
28...	97	99	99	100	--	--
29...	--	--	--	99	100	--
MAR.						
03...	--	--	--	97	100	--
JULY						
27...	--	--	--	100	--	--
AUG.						
02...	--	--	--	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.								
02...	1115	10.0	5	23	4	6	9	21
JUNE								
30...	1320	22.5	5	61	1	4	8	19

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
DEC.							
02...	32	44	55	68	81	88	100
JUNE							
30...	32	46	57	72	83	100	--

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.

LOCATION.--Lat 37°40'48", long 122°04'46", in San Lorenzo (Castro) Grant, Alameda County, at gaging station at Hayward, 700 ft upstream from mouth, and 700 ft downstream from small left-bank tributary.

DRAINAGE AREA.--5.51 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1972 (partial-record station).
Sediment records: Water year 1972 (partical-record station).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
OCT.											
14...	1140	.44	7.5	40	51	26	57	2.6	220	0	180
NOV.											
11...	1015	3.6	--	--	--	--	--	--	--	--	--
11...	1045	2.5	--	--	--	--	--	--	--	--	--
11...	1135	1.7	7.1	270	43	17	41	1.5	151	0	124
13...	1145	4.8	3.3	80	15	5.2	14	2.4	35	0	29
13...	1245	3.5	--	--	--	--	--	--	--	--	--
DEC.											
02...	0615	128	--	--	--	--	--	--	--	--	--
02...	0715	147	--	--	--	--	--	--	--	--	--
02...	0745	237	1.5	60	5.8	1.7	3.8	1.4	20	0	16
02...	0805	115	--	--	--	--	--	--	--	--	--
02...	0830	51	--	--	--	--	--	--	--	--	--
09...	0905	1.6	--	--	--	--	--	--	--	--	--
09...	0935	21	12	50	50	27	59	2.1	217	0	178
09...	1015	17	--	--	--	--	--	--	--	--	--
09...	1115	6.5	--	--	--	--	--	--	--	--	--
22...	0830	211	2.2	50	6.5	2.1	4.5	1.3	21	0	17
22...	0945	20	--	--	--	--	--	--	--	--	--
22...	1020	11	--	--	--	--	--	--	--	--	--
27...	1100	9.3	--	--	--	--	--	--	--	--	--
27...	1130	13	--	--	--	--	--	--	--	--	--
27...	1145	18	7.0	40	20	8.0	18	1.7	78	0	64
27...	1220	12	--	--	--	--	--	--	--	--	--
27...	1245	8.1	--	--	--	--	--	--	--	--	--
JAN.											
25...	0925	41	3.1	100	10	3.8	11	1.1	--	--	--
25...	0950	21	--	--	--	--	--	--	--	--	--
25...	1010	128	--	--	--	--	--	--	--	--	--
25...	1115	17	--	--	--	--	--	--	--	--	--
APR.											
05...	0920	.42	--	--	--	--	--	--	--	--	--
05...	0925	.46	--	--	--	--	--	--	--	--	--
05...	0926	.46	--	--	--	--	--	--	--	--	--
05...	0950	11	--	--	--	--	--	--	--	--	--
05...	0955	13	--	--	--	--	--	--	--	--	--
05...	1015	11	7.6	60	67	36	92	3.3	331	0	271
05...	1100	5.0	--	--	--	--	--	--	--	--	--
SEP.											
06...	0915	.27	18	50	65	36	96	3.9	315	0	258
26...	2130	40	--	--	--	--	--	--	32	--	26
26...	2135	40	--	--	--	--	--	--	32	--	26
27...	0010	97	3.1	150	7.5	2.1	5.3	1.5	28	0	23
27...	0110	16	3.1	110	7.7	2.4	5.7	1.5	29	0	24

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	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 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)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)
OCT.											
14...	71	72	.2	1.7	7.5	.01	.0	1.7	--	.15	.19
NOV.											
11...	--	--	--	1.4	--	.10	.3	1.5	--	.96	1.2
11...	--	--	--	.34	--	.14	.4	.48	--	1.7	2.2
11...	61	52	.5	.00	.00	.17	.5	.17	--	1.8	2.3
13...	21	24	.2	1.5	--	.02	.0	1.5	--	.43	.55
13...	--	--	--	1.7	--	.02	.0	1.7	--	.56	.72
DEC.											
02...	--	--	--	.63	--	.01	.0	.64	--	.38	.49
02...	--	--	--	.64	--	.01	.0	.65	--	.32	.41
02...	.0	5.1	.2	.65	--	.01	.0	.66	--	.33	.43
02...	--	--	--	.95	--	.01	.0	.96	--	.73	.94
02...	--	--	--	1.2	--	.01	.0	1.2	--	.36	.46
09...	--	--	--	3.3	--	.03	.1	3.3	--	.05	.06
09...	87	69	.4	2.9	--	.07	--	3.0	--	.22	--
09...	--	--	--	1.4	--	.06	.2	1.5	--	.44	.57
09...	--	--	--	.31	--	.04	.1	.35	--	.39	.50
22...	13	5.8	.2	--	--	--	--	.93	--	.21	.27
22...	--	--	--	--	--	--	--	1.9	--	.30	.39
22...	--	--	--	--	--	--	--	--	--	.29	.37
27...	--	--	--	1.8	--	.00	.0	1.8	--	.13	.17
27...	--	--	--	1.9	--	.01	.0	1.9	--	.21	.27
27...	29	22	.1	2.3	--	.01	.0	2.3	--	.12	.15
27...	--	--	--	2.1	--	.01	.0	2.1	--	.15	.19
27...	--	--	--	1.9	--	.01	.0	1.9	--	.14	.18
JAN.											
25...	--	17	.1	.83	--	.03	.1	.86	--	.39	.50
25...	--	--	--	.70	--	.04	.1	.74	--	.33	.43
25...	--	--	--	.56	--	.03	.1	.59	--	.42	.54
25...	--	--	--	.72	--	.03	.1	.75	--	.36	.46
APR.											
05...	--	--	--	2.5	11	.10	.3	2.6	--	.32	.41
05...	--	--	--	.00	.00	.11	.3	.04	.28	.28	.36
05...	--	--	--	.00	.00	.11	.3	.04	.28	.28	.36
05...	--	--	--	2.1	9.1	.15	.4	2.2	--	.47	.61
05...	--	--	--	--	--	--	--	--	--	--	--
05...	120	110	.5	4.2	19	.19	.6	4.4	--	.95	1.2
05...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
06...	110	110	.3	--	--	--	--	1.4	--	.41	.53
26...	--	--	--	--	--	--	--	.80	--	.61	.79
26...	--	--	--	--	--	--	--	.80	--	.61	.79
27...	8.0	5.9	.2	--	--	--	--	.64	--	.26	.33
27...	8.5	6.3	.2	--	--	--	--	.73	--	.23	.30

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOL-VED PHOS-PHORUS (P) (MG/L)	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)
OCT.											
14...	.41	.56	2.3	.48	--	.09	--	404	.55	.48	230
NOV.											
11...	2.8	3.8	5.3	.86	.70	.42	472	--	--	4.59	--
11...	1.8	3.5	4.0	1.1	.91	.56	382	--	--	2.62	--
11...	2.7	4.5	4.6	.97	.90	.69	384	298	.52	1.76	180
13...	.87	1.3	2.8	.55	.91	.25	156	109	.21	2.02	59
13...	--	--	--	.61	.53	.21	--	--	--	--	--
DEC.											
02...	.41	.79	1.4	.61	--	.14	84	--	--	29.0	--
02...	.40	.72	1.4	.59	.21	.14	69	--	.09	27.4	--
02...	.43	.76	1.4	.88	.29	.29	63	32	.09	40.3	21
02...	.15	.88	1.8	.98	.26	.20	94	--	--	29.2	--
02...	.64	1.0	2.2	.53	.25	.19	106	--	--	14.6	--
09...	.70	.75	4.1	.36	.35	.18	--	--	--	--	--
09...	1.4	1.6	4.6	.84	.73	.23	484	426	.66	27.4	240
09...	1.4	1.8	3.3	.51	.44	.23	180	--	--	8.26	--
09...	1.0	1.4	1.8	.40	.31	.17	116	--	--	2.04	--
22...	.50	.71	1.6	.43	--	.17	66	46	.06	37.6	25
22...	.59	.89	2.8	.51	--	.26	108	--	--	5.83	--
22...	1.7	2.0	--	.54	--	.32	182	--	--	5.41	--
27...	1.1	1.2	3.0	.44	.25	.18	140	--	--	3.52	--
27...	.72	.93	2.8	.32	.27	.19	144	--	--	5.05	--
27...	.88	1.0	3.3	.33	.27	.19	170	154	--	8.26	83
27...	.82	.97	3.1	.35	.28	.17	158	--	--	5.12	--
27...	.82	.96	2.9	.30	.24	.16	150	--	--	3.28	--
JAN.											
25...	1.9	2.3	3.2	.56	.31	.13	--	--	--	--	41
25...	1.7	2.0	2.7	.51	.22	.13	76	--	.10	4.31	--
25...	1.1	1.5	2.1	.77	.16	.11	68	--	.09	23.5	--
25...	1.4	1.8	2.6	.57	.25	.18	--	--	--	--	--
APR.											
05...	1.4	1.7	4.3	1.1	.98	.80	--	--	--	--	--
05...	1.0	1.3	1.3	1.1	.93	.79	--	--	--	--	--
05...	1.0	1.3	1.3	1.1	.93	.79	--	--	--	--	--
05...	1.3	1.8	4.0	1.3	.77	.63	734	--	1.00	21.8	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	1.9	2.8	7.2	1.4	.80	.55	700	618	.84	20.8	320
05...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
06...	.48	.89	2.3	.77	--	.67	--	603	.82	.44	310
26...	1.3	1.9	2.7	.60	--	.23	--	--	--	--	--
26...	1.3	1.9	2.7	.60	--	.23	--	--	--	--	--
27...	1.7	2.0	2.6	.58	--	.15	--	51	.07	13.4	27
27...	1.8	2.0	2.7	.58	--	.16	--	54	.07	2.33	29

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)
OCT.											
14...	54	34	1.6	707	7.7	15.0	11	1.0	7.0	4.0	.00
NOV.											
11...	--	--	--	--	--	14.5	230	--	--	53	--
11...	--	--	--	--	--	15.0	170	--	--	96	--
11...	53	33	1.3	538	7.5	15.0	230	44	7.6	52	.15
13...	30	33	.8	204	6.2	13.0	50	--	--	23	.03
13...	--	--	--	--	--	13.0	56	--	--	13	.02
DEC.											
02...	--	--	--	--	--	10.5	120	--	--	12	--
02...	--	--	--	--	--	10.0	63	5.0	--	15	.01
02...	5	26	.4	66	6.3	9.5	71	9.5	--	11	.00
02...	--	--	--	--	--	9.5	90	--	--	13	--
02...	--	--	--	--	--	9.5	53	4.0	--	14	--
09...	--	--	--	--	--	8.5	13	--	--	.5	.04
09...	58	35	1.7	742	7.1	10.0	55	11	--	18	.11
09...	--	--	--	--	--	10.5	100	--	--	27	--
09...	--	--	--	--	--	10.5	68	10	--	8.0	.08
22...	8	27	.4	86	6.2	11.0	150	5.0	21	38	.00
22...	--	--	--	--	--	11.0	45	--	--	9.0	--
22...	--	--	--	--	--	11.0	43	1.7	--	13	.00
27...	--	--	--	--	--	8.0	28	1.7	--	7.0	.01
27...	--	--	--	--	--	8.5	30	--	--	9.0	--
27...	19	32	.9	268	7.1	8.5	--	2.2	--	--	.01
27...	--	--	--	--	--	9.0	35	--	--	8.5	--
27...	--	--	--	--	--	9.0	39	--	--	5.5	.01
JAN.											
25...	--	36	.8	--	--	8.0	180	6.0	--	37	--
25...	--	--	--	--	--	8.0	100	5.6	--	17	--
25...	--	--	--	--	--	8.0	83	--	--	14	.00
25...	--	--	--	--	--	8.5	92	4.7	--	23	.00
APR.											
05...	--	--	--	--	--	15.0	16	2.6	--	24	.03
05...	--	--	--	--	--	15.0	50	--	--	52	--
05...	--	--	--	--	--	15.0	--	--	--	--	--
05...	--	--	--	--	--	15.0	--	8.4	--	--	--
05...	--	--	--	--	--	15.0	91	--	--	36	.02
05...	44	39	2.3	1070	7.2	15.0	340	--	--	96	.03
05...	--	--	--	--	--	15.0	--	37	--	--	--
SEP.											
06...	52	40	2.4	1010	7.8	17.0	30	2.4	--	--	.02
26...	--	--	--	126	6.2	19.0	--	17	--	--	--
26...	--	--	--	126	6.2	19.0	--	17	32	--	--
27...	4	28	.4	92	6.7	18.0	82	18	--	--	.04
27...	5	29	.5	96	6.6	18.0	--	9.9	--	--	--

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
14...	1140	.44	180	707	7.7	15.0	--	--	--	--
14...	1145	.44	--	711	8.1	15.0	8.2	81	5000	400
NOV.										
11...	1015	3.6	140	690	7.0	14.5	5.1	50	--	--
11...	1045	2.5	98	550	6.9	15.0	--	--	--	--
11...	1130	1.7	92	540	6.8	15.0	4.4	43	--	--
11...	1135	1.7	124	538	7.5	15.0	--	--	--	--
11...	1300	1.1	--	--	6.7	15.0	--	--	--	--
13...	1145	4.8	29	204	6.2	13.0	--	--	--	--
13...	1150	4.8	51	195	6.7	13.0	--	--	--	--
13...	1245	3.5	54	245	6.9	13.0	8.1	76	--	--
DEC.										
02...	0615	128	10	60	5.6	10.5	--	--	--	--
02...	0715	147	15	75	5.4	10.0	9.5	84	>16000	--
02...	0745	237	16	66	6.3	9.5	--	--	--	--
02...	0750	237	26	60	6.2	9.0	10.3	90	>16000	--
02...	0805	115	30	80	6.4	9.5	--	--	--	--
02...	0830	51	28	100	6.3	9.5	10.3	90	>16000	--
02...	1010	9.9	39	187	6.2	10.5	--	--	--	--
09...	0905	1.6	231	910	7.4	8.5	--	--	--	--
09...	0935	21	178	742	7.1	10.0	--	--	--	--
09...	0940	21	96	410	7.4	10.0	9.0	79	--	--
09...	1015	17	35	153	6.8	10.5	--	--	--	--
09...	1115	6.5	34	122	6.7	10.5	9.5	85	--	--
09...	1215	3.0	21	142	6.6	10.5	9.6	86	--	--
22...	0830	211	17	86	6.2	11.0	--	--	--	--
22...	0835	211	15	75	6.0	11.0	9.4	85	13000	9000
22...	0945	20	41	165	6.2	11.0	10.0	90	--	--
22...	1020	11	33	215	6.4	11.0	9.9	89	9500	8000
27...	1100	9.3	47	205	6.7	8.0	--	--	5200	2500
27...	1130	13	85	225	6.6	8.5	--	--	--	--
27...	1145	18	64	268	7.1	8.5	--	--	--	--
27...	1220	12	58	250	6.9	9.0	--	--	--	--
27...	1245	8.1	56	225	6.9	9.0	--	--	12000	2800
JAN.										
25...	0915	62	31	180	6.6	7.5	--	--	--	--
25...	0925	41	32	140	6.2	8.0	--	--	--	--
25...	0950	21	31	115	6.2	8.0	--	--	--	--
25...	1005	32	34	115	6.6	8.0	--	--	--	--
25...	1010	128	36	60	6.6	8.0	--	--	--	--
25...	1115	17	38	65	6.8	8.5	--	--	--	--
APR.										
05...	0920	.42	--	1120	--	15.0	6.9	68	--	--
05...	0950	11	--	1170	--	15.0	--	--	16000	3800
05...	0955	13	--	1120	--	15.0	6.7	66	16400	5300
05...	1015	11	271	1070	7.2	15.0	--	--	--	--
05...	1015	11	--	1070	--	15.0	6.4	63	63000	30000
05...	1100	5.0	--	690	--	15.0	--	--	--	--
SEP.										
06...	0915	.27	258	1010	7.8	17.0	6.2	--	--	90
26...	2130	40	26	126	6.2	19.0	6.4	--	--	--
26...	2135	40	26	126	6.2	19.0	6.4	--	--	--
27...	0010	97	23	92	6.7	18.0	7.0	--	--	47000
27...	0110	16	24	96	6.6	18.0	7.7	--	--	22000

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)
OCT.												
14...	1140	.00	--	.0	--	.00	--	.00	--	.00	--	--
22...	1030	--	<.2	--	187	--	47	--	22	--	37	--
NOV.												
11...	1400	.00	--	.4	--	.00	--	.00	--	.00	--	--
13...	1245	.00	--	.2	--	.00	--	.00	--	.04	--	--
DEC.												
02...	0715	.02	--	.3	--	.00	--	.01	--	.09	--	--
02...	0745	.07	--	1.1	--	.00	--	.02	--	.20	--	--
02...	0830	.00	--	.5	--	.00	--	.01	--	.10	--	--
09...	0935	.00	--	.7	--	.00	--	.03	--	.08	--	--
09...	1115	.00	--	.6	--	.00	--	.01	--	.05	--	--
22...	0830	.00	--	.6	--	.00	--	.02	--	.12	--	--
22...	1020	.00	--	.3	--	.00	--	.01	--	.05	--	--
27...	1100	.00	--	.2	--	.00	--	.00	--	.04	--	--
27...	1145	.00	--	.3	--	.00	--	.00	--	.06	--	--
27...	1245	.00	--	.3	--	.00	--	.01	--	.06	--	--
JAN.												
19...	1450	--	<.2	--	130	--	33	--	<.2	--	24	--
25...	0930	.00	--	.9	--	.00	--	.04	--	.15	--	.24
25...	1020	.00	--	2.4	--	.00	--	.10	--	.55	--	.18
APR.												
05...	1015	.00	--	.4	--	.08	--	.00	--	.19	--	--
05...	1100	.00	--	.8	--	.04	--	.00	--	.11	--	--
SEP.												
06...	0915	.00	--	.0	--	.00	--	.00	--	.00	--	.10
26...	2130	.00	--	.4	--	.00	--	.02	--	.13	--	.26
27...	0010	.00	--	1.2	--	.00	--	.05	--	.63	--	.19
27...	0110	.00	--	.2	--	.00	--	.01	--	.05	--	.21

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION (UG/L)
OCT.											
14...	.02	--	.00	--	.00	--	.00	--	.03	--	--
22...	--	46	--	<.2	--	<.2	--	<.2	--	<.2	--
NOV.											
11...	.01	--	.00	--	.00	--	.00	--	.02	--	--
13...	.05	--	.00	--	.00	--	.00	--	.09	--	--
DEC.											
02...	.08	--	.00	--	.00	--	.00	--	.04	--	--
02...	.16	--	.00	--	.00	--	.00	--	.00	--	--
02...	.09	--	.00	--	.00	--	.00	--	.05	--	--
09...	.08	--	.00	--	.00	--	.00	--	.00	--	--
09...	.03	--	.00	--	.00	--	.00	--	.00	--	--
22...	.16	--	.00	--	.00	--	.00	--	.00	--	--
22...	.10	--	.00	--	.00	--	.00	--	.07	--	--
27...	.05	--	.00	--	.00	--	.00	--	.03	--	--
27...	.08	--	.00	--	.00	--	.00	--	.05	--	--
27...	.07	--	.00	--	.00	--	.00	--	.06	--	--
JAN.											
19...	--	17	--	<.2	--	<.2	--	<.2	--	<.2	--
25...	.14	--	.00	--	.00	--	.00	--	.00	--	.54
25...	.18	--	.00	--	.00	--	.00	--	.00	--	.00
APR.											
05...	.10	--	.00	--	.00	--	.00	--	.00	--	--
05...	.14	--	.00	--	.00	--	.00	--	.15	--	--
SEP.											
06...	.02	--	.00	--	.00	--	.00	--	.06	--	.00
26...	.12	--	.00	--	.00	--	.00	--	.00	--	.11
27...	.19	--	.00	--	.00	--	.00	--	.00	--	.04
27...	.06	--	.00	--	.00	--	.00	--	.00	--	.08

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	MALA-THION IN BOTTOM DE-POSITS (UG/KG)	METHYL PARA-THION (UG/L)	METHYL PARA-THION IN BOT-TOM DE-POSITS (UG/KG)	PARA-THION (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)
OCT.											
14...	--	--	--	--	--	.23	--	.15	--	.08	--
22...	<.2	--	<.2	--	--	--	<.9	--	<.2	--	<.2
NOV.											
11...	--	--	--	--	--	6.4	--	.17	--	.00	--
13...	--	--	--	--	--	.70	--	.04	--	.04	--
DEC.											
02...	--	--	--	--	--	.14	--	.05	--	.02	--
02...	--	--	--	--	--	.00	--	.00	--	.00	--
02...	--	--	--	--	--	.14	--	.04	--	.04	--
09...	--	--	--	--	--	.16	--	.04	--	.03	--
09...	--	--	--	--	--	.12	--	.02	--	.02	--
22...	--	--	--	--	--	.06	--	.03	--	.03	--
22...	--	--	--	--	--	.14	--	.04	--	.05	--
27...	--	--	--	--	--	.05	--	.02	--	.01	--
27...	--	--	--	--	--	.11	--	.02	--	.03	--
27...	--	--	--	--	--	.00	--	.00	--	.00	--
JAN.											
19...	<.2	--	<.2	--	190	--	--	--	--	--	--
25...	--	.00	--	.00	--	.14	--	.03	--	.04	--
25...	--	.00	--	.00	--	.00	--	.17	--	.11	--
APR.											
05...	--	--	--	--	--	1.1	--	.08	--	.56	--
05...	--	--	--	--	--	.94	--	.20	--	.24	--
SEP.											
06...	--	.00	--	.00	--	.39	--	.01	--	.10	--
26...	--	.00	--	.00	--	.54	--	.11	--	.14	--
27...	--	.00	--	.00	--	.33	--	.05	--	.08	--
27...	--	.00	--	.00	--	.34	--	.06	--	.08	--

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)
OCT.									
14...	1140	--	--	240	--	--	7	3	17
NOV.									
11...	1135	--	--	490	--	--	1	1	300
13...	1145	--	--	110	--	--	11	1	230
DEC.									
02...	0715	--	--	--	--	--	13	2	65
02...	0745	--	--	50	--	--	19	1	100
09...	0905	--	--	--	--	--	15	16	42
09...	0935	--	--	310	--	--	6	3	110
22...	0830	--	--	0	--	--	9	0	110
27...	1100	--	--	--	--	--	3	0	80
27...	1145	--	--	100	--	--	0	0	50
JAN.									
25...	0925	--	--	100	--	--	4	0	360
25...	1010	--	--	--	--	--	11	0	320
APR.									
05...	0920	--	--	--	--	--	10	0	40
05...	0925	--	--	--	--	--	10	--	30
05...	0935	--	--	--	--	--	--	--	--
05...	0955	--	--	--	--	--	20	0	40
05...	1015	--	--	430	--	--	--	--	--
SEP.									
06...	0915	2	2	400	1	1	--	--	--
27...	0010	2	2	100	1	0	--	--	--
27...	0110	3	3	90	1	1	--	--	--

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 NICKEL (NI) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.									
14...	13	11	0	.6	.4	80	4	30	30
NOV.									
11...	20	170	80	.7	.7	120	30	310	160
13...	10	680	40	.7	.5	10	10	150	90
DEC.									
02...	30	230	47	.2	.1	13	7	240	50
02...	10	430	25	.1	.0	19	6	320	40
09...	17	42	12	1.0	.5	11	3	90	70
09...	37	120	30	1.8	1.0	75	11	200	70
22...	20	37	13	.7	.3	45	0	200	30
27...	20	120	19	12	.4	100	13	100	130
27...	20	170	24	.9	.6	57	9	130	40
JAN.									
25...	15	50	19	1.5	.4	110	11	50	50
25...	11	32	2	.4	.4	82	6	30	8
APR.									
05...	10	170	9	.5	.4	6	9	230	230
05...	--	110	--	.3	--	5	--	460	--
05...	--	--	--	1.9	--	--	--	120	--
05...	20	180	11	1.5	.3	5	9	220	80
05...	--	--	--	--	--	--	--	--	--
SEP.									
06...	--	9	6	.5	.5	--	--	--	--
27...	--	360	54	.8	.5	--	--	--	--
27...	--	250	47	1.0	.6	--	--	--	--

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS,
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TEMPER-ATURE (DEG C)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
NOV.					
13...	1245	3.5	13.0	50	.47
DEC.					
02...	0715	147	10.0	846	336
02...	0745	237	9.5	1680	1080
02...	0830	51	9.5	463	64
09...	0935	21	10.0	79	4.5
09...	1115	6.5	10.5	61	1.1
22...	0830	211	11.0	709	404
22...	1020	11	11.0	124	3.7
27...	1130	13	8.5	26	.91
27...	1145	18	8.5	39	1.9
27...	1245	8.1	9.0	31	.68
JAN.					
25...	0940	25	8.0	215	15
25...	1030	90	8.0	612	149
SEP.					
06...	0915	.27	17.0	1	.00
26...	2135	40	19.0	88	9.5
27...	0010	97	18.0	328	86
27...	0110	16	18.0	95	4.1

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 mile upstream from Little Kern River, and 6.8 miles east of Quaking Aspen Camp.

DRAINAGE AREA.--530 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 21.5°C July 14; 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.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	7.0	4.0	2.0	3.0	1.5	0.5	0.0	1.5	1.0	6.0	3.5
2	10.0	7.0	4.5	2.5	2.5	2.0	0.0	0.0	1.5	1.0	7.0	4.5
3	11.0	7.5	5.0	2.5	2.0	1.5	0.0	0.0	1.0	0.5	8.0	5.0
4	11.0	8.0	5.0	3.5	2.0	1.5	0.0	0.0	2.5	1.0	8.0	5.5
5	12.0	9.0	5.5	4.0	2.0	1.0	0.0	0.0	3.0	2.5	8.0	6.0
6	12.5	9.5	5.5	3.5	3.0	2.0	0.0	0.0	4.0	3.0	8.0	6.0
7	12.5	10.0	5.0	3.0	2.5	1.5	0.0	0.0	4.0	3.0	8.0	6.0
8	13.0	10.0	4.5	3.0	1.5	1.0	0.0	0.0	4.0	3.0	8.0	6.0
9	13.0	10.5	4.5	3.5	1.5	1.0	0.0	0.0	4.5	3.5	8.0	6.0
10	13.0	11.0	4.5	3.0	1.5	0.5	0.0	0.0	4.5	3.0	8.0	6.0
11	13.0	11.0	5.0	4.0	1.5	1.0	0.5	0.0	4.0	2.0	8.0	6.0
12	13.0	10.5	5.5	5.0	1.0	1.0	1.5	0.5	3.5	2.0	8.0	6.0
13	13.0	10.5	5.0	3.5	1.0	1.0	2.0	1.5	4.0	2.0	9.0	7.5
14	13.0	10.0	4.0	3.0	1.0	1.0	2.0	1.5	4.0	2.5	9.0	7.0
15	12.0	10.0	4.0	2.0	1.0	0.5	2.0	1.5	4.5	3.0	9.0	6.5
16	10.5	8.0	3.0	1.5	0.5	0.5	2.0	1.0	5.0	3.5	9.0	6.5
17	8.5	6.0	2.5	1.0	0.5	0.0	2.0	1.0	5.5	3.0	9.5	7.5
18	7.5	5.5	2.0	1.5	0.5	0.0	2.0	1.0	6.0	4.0	9.5	7.5
19	7.5	5.5	2.0	1.0	1.5	0.5	3.0	2.0	6.0	4.5	9.0	7.5
20	7.0	6.0	3.0	1.5	1.5	0.5	3.5	2.5	6.0	4.0	9.0	7.5
21	7.5	5.0	3.5	2.5	1.0	1.0	3.5	3.0	5.5	4.0	8.5	6.5
22	7.5	5.0	3.5	2.5	2.0	1.0	3.5	2.5	6.0	4.5	8.0	6.5
23	7.0	5.0	3.5	2.5	3.0	2.0	3.5	2.5	6.0	3.0	8.0	6.0
24	7.0	6.0	3.5	2.5	3.0	1.5	3.5	2.0	5.0	3.0	8.5	5.5
25	6.0	4.5	3.5	2.5	1.5	1.5	3.0	2.5	6.0	3.5	8.5	6.5
26	6.5	4.5	3.5	2.5	1.5	1.0	3.0	2.5	6.0	4.0	8.0	6.5
27	6.5	5.0	3.5	3.0	1.5	1.0	2.5	2.0	6.5	4.0	6.5	4.5
28	6.5	4.5	4.5	3.0	1.0	0.5	2.5	2.0	6.5	4.0	6.5	3.5
29	4.5	1.5	4.5	4.0	0.5	0.5	3.0	2.5	6.0	4.5	6.5	3.5
30	3.0	1.5	4.5	3.0	0.5	0.5	3.0	2.0	---	---	7.5	4.0
31	4.0	2.0	---	---	0.5	0.5	2.5	1.0	---	---	8.0	5.0
MONTH	13.0	1.5	5.5	1.0	3.0	0.0	3.5	0.0	6.5	0.5	9.5	3.5

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

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 mile upstream from highway bridge at Kernville, 1.7 miles upstream from Caldwell Creek, 9.5 miles upstream from Isabella Dam, and 42 miles northeast of Bakersfield.

DRAINAGE AREA.--1,009 sq mi.

PERIOD OF RECORD.--Water temperatures: June 1962 to September 1972.
Sediment records: Water years 1967-72 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum recorded, 28.5°C Aug. 20; minimum, 1.5°C Feb. 3.

Period of record:
Water temperatures: Maximum (1962-63, 1964-72), 28.5°C (recorded), Aug. 20, 1972; minimum, 0.5°C Dec. 24, 25, 1970.

REMARKS.--Probe out of water Aug. 9-11, 21, 22.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	12.5	8.0	6.5	7.0	5.5	3.5	2.0	4.0	2.0	8.0	6.5
2	13.5	12.0	8.0	6.5	5.5	5.0	3.5	2.5	3.5	2.0	8.0	6.5
3	13.5	12.0	8.5	7.0	5.0	4.0	3.5	2.5	3.5	1.5	9.0	7.0
4	14.0	12.5	8.5	7.5	5.5	4.0	3.5	2.0	3.0	2.0	9.5	8.0
5	14.5	13.0	9.5	8.0	5.5	4.0	3.5	2.0	4.0	3.0	9.5	8.5
6	14.5	13.0	9.0	8.0	5.5	4.0	3.5	2.0	5.0	3.5	9.5	8.5
7	14.5	13.0	8.5	8.0	5.0	4.0	3.5	2.5	5.5	4.0	9.5	8.5
8	15.0	13.0	8.5	7.0	5.0	3.0	3.5	2.5	5.0	4.5	9.5	8.5
9	15.5	13.5	8.0	7.5	4.5	3.0	3.5	2.5	5.5	4.0	10.0	8.5
10	15.0	13.0	8.0	7.0	5.0	3.5	3.5	2.0	5.5	4.5	10.0	9.0
11	16.5	12.0	8.0	7.5	5.0	3.5	3.5	2.5	5.5	4.0	10.0	9.0
12	16.0	13.0	8.0	7.5	4.0	3.0	3.5	2.5	5.5	4.0	10.0	9.5
13	15.5	13.0	7.5	6.5	4.5	3.0	4.0	2.5	5.5	4.0	10.5	9.5
14	14.0	11.5	7.0	6.0	4.5	3.0	4.5	3.0	5.5	4.5	10.5	9.5
15	11.5	9.5	7.0	6.0	4.5	3.0	4.5	3.5	5.5	4.5	11.0	9.5
16	10.5	9.0	6.5	5.5	4.0	3.0	4.5	3.5	6.0	4.5	11.0	10.0
17	10.5	8.5	6.5	5.5	4.0	3.0	4.0	3.5	6.0	5.0	11.0	10.0
18	10.5	8.5	6.0	5.5	4.0	3.0	4.0	3.0	6.0	5.0	11.0	10.5
19	10.0	8.0	6.5	5.0	4.5	3.0	4.5	3.0	6.5	5.5	11.0	10.0
20	10.0	9.0	6.0	5.5	4.5	3.0	4.5	3.5	6.5	5.5	11.5	10.0
21	10.0	8.5	7.0	5.5	4.0	3.5	4.5	3.5	6.5	5.5	11.0	10.0
22	10.5	9.0	7.0	5.5	5.0	4.0	5.0	3.5	7.5	6.0	11.0	10.0
23	10.5	9.0	7.0	5.5	5.5	4.5	4.0	3.5	6.5	5.5	10.0	9.0
24	10.0	8.5	7.0	5.5	5.5	5.0	4.5	3.0	6.0	5.0	10.0	9.0
25	9.5	8.0	7.0	5.5	5.0	4.5	3.5	3.0	6.5	5.0	10.5	9.5
26	9.5	8.0	7.0	5.5	4.5	4.0	4.5	3.5	7.0	5.5	10.5	9.5
27	10.0	8.5	7.5	6.0	4.0	3.0	3.5	3.0	7.5	6.0	9.5	8.5
28	9.0	7.5	7.5	6.0	3.5	3.0	4.0	2.5	7.5	6.5	9.0	7.5
29	8.5	6.5	8.0	6.5	4.0	2.5	4.0	3.0	8.5	7.0	9.0	7.5
30	8.5	6.0	7.5	6.0	3.5	2.5	4.0	2.5	---	---	10.0	8.0
31	8.0	6.0	---	---	3.5	2.5	4.0	2.5	---	---	10.5	8.5
MONTH	16.5	6.0	9.5	5.0	7.0	2.5	5.0	2.0	8.5	1.5	11.5	6.5

11187000 KERN RIVER AT KERNVILLE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	9.5	13.0	12.0	17.0	16.0	21.0	19.5	24.5	22.5	23.0	21.0
2	11.5	10.0	13.0	12.5	16.5	16.0	21.0	20.0	25.0	22.0	22.5	20.5
3	12.0	11.0	13.0	12.5	17.0	16.0	21.0	19.5	24.0	21.0	22.5	20.0
4	12.0	11.0	13.5	12.0	17.0	16.5	20.5	19.0	24.5	21.0	22.0	20.5
5	11.5	10.0	13.0	12.0	17.0	16.5	20.5	19.5	25.0	21.0	21.5	20.0
6	11.0	9.5	13.0	12.5	16.5	16.0	21.0	19.0	26.0	21.5	22.0	20.0
7	11.5	10.0	13.5	12.0	17.0	16.5	20.5	19.0	26.5	22.0	20.0	19.0
8	11.0	9.5	13.5	12.5	17.0	16.0	20.0	19.0	27.0	22.0	19.5	19.0
9	11.0	10.0	13.5	12.5	17.5	16.0	20.0	19.0	---	---	19.5	19.0
10	11.0	10.0	13.5	12.5	17.5	16.0	20.5	19.0	---	---	19.5	19.0
11	10.0	9.0	13.5	13.0	17.0	16.0	21.0	19.5	---	---	19.0	18.0
12	10.0	8.0	14.0	13.0	17.5	16.0	21.5	20.0	25.0	21.5	18.5	17.5
13	10.0	8.5	14.5	13.5	17.5	17.0	21.5	20.0	24.0	21.0	18.5	17.5
14	10.0	8.0	15.0	14.0	18.0	17.0	22.0	20.5	24.0	21.0	19.5	17.5
15	10.5	8.5	15.5	14.0	18.5	17.5	22.5	21.0	24.0	20.0	19.5	17.0
16	11.0	9.5	15.5	14.0	18.5	18.0	22.5	21.5	24.0	20.0	20.5	17.0
17	11.5	10.0	14.5	14.0	18.5	18.0	22.0	21.0	25.0	19.5	20.5	17.5
18	10.5	10.0	14.0	13.0	18.5	18.0	22.0	21.0	27.0	20.0	20.5	17.5
19	10.0	8.5	13.5	13.0	19.0	18.5	22.0	21.0	26.5	20.0	19.5	17.0
20	10.5	8.0	13.5	12.5	18.5	18.0	22.0	20.5	28.5	19.0	20.0	17.0
21	11.0	9.0	13.0	11.5	19.5	18.0	20.5	19.0	---	---	20.5	17.0
22	12.0	10.0	14.5	12.5	19.5	19.5	21.0	19.0	---	---	20.5	17.0
23	12.5	11.0	15.5	14.0	19.5	19.0	21.5	19.5	23.0	22.0	19.5	16.5
24	12.5	11.5	15.5	15.0	19.0	18.5	21.5	19.0	24.5	22.0	19.5	16.0
25	12.5	10.5	15.5	15.0	19.0	18.0	21.5	19.0	26.0	20.0	20.0	15.0
26	12.5	11.0	16.0	14.5	19.5	18.5	21.5	18.5	25.5	21.0	20.0	14.5
27	13.0	11.5	16.0	15.5	20.0	18.5	22.0	19.0	23.5	20.5	20.5	14.5
28	12.5	11.5	16.5	15.5	20.0	18.5	24.5	19.5	23.0	20.5	21.0	15.5
29	13.0	12.0	16.5	16.0	20.5	19.0	23.5	22.0	23.5	20.5	19.0	16.0
30	13.0	12.0	17.5	16.0	20.5	19.0	25.0	22.0	22.0	21.0	22.0	15.5
31	---	---	17.5	16.0	---	---	25.0	23.0	23.5	21.0	---	---
MONTH	13.0	8.0	17.5	11.5	20.5	16.0	25.0	18.5	28.5	19.0	23.0	14.5

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.											
19...	0910	8.5	179	2	.97	--	--	--	--	--	--
NOV.											
24...	1420	7.0	182	1	.49	--	--	--	--	--	--
DEC.											
23...	1155	4.5	380	59	61	43	58	78	90	94	100
JAN.											
26...	1250	4.0	235	2	1.3	--	--	--	--	--	--
FEB.											
24...	1120	5.0	266	2	1.4	--	--	--	--	--	--
MAR.											
23...	1100	9.5	536	4	5.8	--	--	--	--	--	--
APR.											
19...	1120	8.5	395	4	4.3	--	--	--	--	--	--
MAY											
26...	1040	14.5	602	5	8.1	--	--	--	--	--	--
JUNE											
27...	1750	20.0	314	2	1.7	--	--	--	--	--	--
JULY											
26...	1030	18.5	143	3	1.2	--	--	--	--	--	--
AUG.											
24...	1345	22.0	107	1	.29	--	--	--	--	--	--
SEP.											
28...	1050	15.5	125	4	1.3	--	--	--	--	--	--

11187500 BOREL CANAL BELOW ISABELLA DAM, CALIF.

LOCATION.--Lat 35°38'32", long 118°28'09", in NE¼ sec.30, T.26 S., R.33 E., Kern County, temperature recorder at gaging station on right bank, 500 ft downstream from Isabella Dam, and 3 miles upstream from point where canal crosses Erskine Creek.

PERIOD OF RECORD.--Water temperatures: October 1958 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 23.5°C June 30, July 12; minimum, 4.5°C on several days during December to February.

Period of record:
Water temperatures: Maximum, 26.5°C July 31, Aug. 1, 1959; minimum, 0.5°C Jan. 17, 18, 1960.

REMARKS.--No flow Oct. 26 to Nov. 4, July 13 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	16.5	---	---	9.0	9.0	5.5	5.5	6.0	5.0	9.0	9.0
2	18.0	16.5	---	---	9.0	8.0	6.0	5.5	5.0	4.5	9.0	9.0
3	17.5	16.5	---	---	8.0	8.0	5.5	5.0	5.0	4.5	9.5	9.0
4	18.0	16.0	---	---	8.0	7.5	5.5	4.5	5.0	5.0	10.5	9.5
5	18.5	16.0	12.5	12.0	7.5	7.5	5.0	4.5	5.5	5.0	11.5	10.0
6	19.0	16.5	12.5	11.5	7.5	7.5	5.0	4.5	6.0	5.5	10.5	10.0
7	18.5	16.5	13.0	12.5	7.5	7.0	5.0	5.0	6.0	5.5	12.5	10.0
8	19.0	17.0	12.5	11.5	7.0	6.5	5.0	5.0	6.0	6.0	13.5	11.0
9	18.0	16.5	12.0	11.5	6.5	6.0	5.0	5.0	7.0	6.0	14.0	11.5
10	18.5	16.5	12.0	11.5	6.0	6.0	5.0	5.0	6.5	6.5	12.0	11.5
11	18.5	16.5	12.0	12.0	6.0	6.0	5.0	5.0	7.0	6.5	11.5	11.0
12	18.5	16.5	12.0	11.5	6.0	5.5	5.0	5.0	7.5	7.0	13.0	11.5
13	18.5	16.5	11.5	10.5	5.5	5.5	5.0	5.0	7.5	7.5	12.0	11.5
14	17.5	16.5	10.5	10.5	5.5	5.5	5.0	5.0	7.5	7.0	14.5	12.0
15	16.5	16.0	10.5	10.0	5.5	5.5	5.0	5.0	8.0	7.0	15.5	13.0
16	16.0	15.0	10.0	10.0	5.5	4.5	5.0	5.0	8.0	7.5	16.5	14.0
17	15.5	14.5	10.0	9.5	5.0	4.5	5.5	5.0	8.5	7.5	16.0	14.0
18	15.0	14.5	10.0	9.5	5.0	5.0	5.5	5.5	8.5	8.0	14.0	13.5
19	15.0	14.5	9.5	9.0	5.0	5.0	5.5	5.5	9.5	8.5	15.0	13.0
20	15.0	14.5	9.5	9.5	5.5	5.0	5.5	5.5	8.5	8.0	15.5	13.5
21	15.0	14.5	9.5	9.5	5.5	5.5	5.5	5.5	8.0	8.0	16.0	14.0
22	15.5	14.5	9.5	9.0	5.5	5.5	5.5	5.5	8.5	8.0	14.5	13.5
23	15.5	14.5	9.5	9.0	6.0	5.5	5.5	5.5	8.5	8.5	13.5	13.5
24	14.5	13.5	10.0	9.0	6.0	6.0	5.5	5.5	9.0	8.5	14.5	13.5
25	14.0	13.5	9.5	9.5	6.0	6.0	5.5	5.5	9.0	9.0	14.0	13.5
26	---	---	9.5	9.0	6.0	5.5	5.5	5.5	10.0	9.0	13.5	13.5
27	---	---	10.0	9.0	5.5	5.5	5.5	5.5	10.5	9.0	13.5	13.5
28	---	---	9.5	9.0	5.5	5.5	5.5	5.5	9.0	9.0	13.5	13.0
29	---	---	9.0	9.0	5.5	5.5	6.0	5.5	9.0	9.0	13.5	13.5
30	---	---	9.0	9.0	5.5	5.5	6.0	5.5	---	---	14.0	13.0
31	---	---	---	---	5.5	5.5	6.0	5.5	---	---	14.0	13.0
MONTH	19.0	13.5	13.0	9.0	9.0	4.5	6.0	4.5	10.5	4.5	16.5	9.0

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

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 downstream from highway bridge, 0.6 mile downstream from Isabella Dam, and 1.6 miles southwest of town of Lake Isabella.

DRAINAGE AREA.--2,074 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1955 to September 1963, water years 1964-66 (partial-record station). Water temperatures: November 1970 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 23.5°C Aug. 10-12; minimum, 4.0°C Jan. 4.

Period of record:
Water temperatures: Maximum, 24.5°C Sept. 3, 1971; minimum, 4.0°C Jan. 4, 1972.

REMARKS.--No record July 26 to Aug. 2.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	16.5	13.0	12.5	10.5	8.0	7.5	5.0	8.0	5.0	11.5	7.0
2	19.0	16.0	12.5	12.0	9.0	8.0	7.5	5.0	8.0	4.5	12.0	7.5
3	19.0	15.5	12.5	12.0	9.0	8.0	7.0	4.5	8.0	4.5	12.5	8.5
4	19.0	15.0	12.0	11.5	10.0	7.5	6.5	4.0	7.5	5.0	13.0	8.5
5	20.0	15.5	13.5	11.0	10.0	7.5	7.0	4.5	7.0	6.0	13.0	8.5
6	19.0	15.0	13.5	10.5	9.5	7.5	7.0	4.5	8.5	6.0	12.0	8.5
7	19.0	15.5	13.5	10.0	8.5	7.0	7.0	4.5	8.5	5.5	10.0	9.0
8	19.0	15.5	13.5	11.0	9.0	6.5	7.0	4.5	7.5	5.0	10.5	9.5
9	19.5	16.0	13.0	11.0	9.0	6.5	7.0	4.5	8.5	5.5	10.5	9.5
10	19.5	16.0	13.0	10.5	8.5	7.0	7.0	4.5	9.0	5.0	10.5	9.5
11	19.5	16.0	12.5	11.5	9.0	6.5	7.0	4.5	8.5	5.0	11.0	9.5
12	19.5	16.0	13.0	11.0	7.5	6.0	6.5	4.5	9.0	5.0	13.0	9.0
13	19.5	16.0	12.5	11.0	8.0	6.5	7.0	4.5	9.0	5.0	13.0	9.5
14	19.0	16.0	12.5	10.5	8.0	5.5	7.5	4.5	9.0	5.5	13.5	9.5
15	18.5	16.0	12.5	10.5	8.5	6.0	7.5	5.0	9.5	6.0	13.5	9.5
16	17.5	15.5	12.5	10.0	8.0	5.5	7.5	4.5	9.5	5.5	13.5	9.5
17	18.5	15.5	12.5	10.0	8.0	5.5	7.5	4.5	10.0	5.5	14.0	9.5
18	18.0	14.5	11.0	9.5	7.5	6.0	7.5	4.5	10.0	6.5	14.0	10.0
19	17.0	15.0	12.5	9.5	8.0	5.5	7.5	4.5	10.0	6.0	14.0	10.0
20	16.0	15.0	11.5	9.5	8.0	5.0	7.5	4.5	10.5	6.0	14.0	9.5
21	17.0	14.0	11.5	9.0	6.5	5.0	7.5	5.0	9.5	6.5	14.0	9.5
22	18.0	14.0	11.5	9.0	8.5	6.0	8.0	5.0	10.5	7.0	14.0	9.5
23	17.0	14.0	11.0	8.5	8.0	6.5	7.0	5.5	10.5	6.5	14.0	10.0
24	15.5	14.0	11.0	8.5	6.5	6.0	7.5	5.0	10.5	7.0	14.0	10.0
25	16.5	13.5	11.0	9.0	6.5	5.5	7.5	5.0	10.5	7.0	14.5	10.0
26	15.0	13.5	11.0	8.5	7.5	5.5	7.0	5.0	11.0	7.0	13.5	9.5
27	15.0	14.5	11.0	9.0	6.5	5.5	7.0	5.0	11.5	7.0	13.0	9.5
28	14.5	14.5	10.5	8.5	7.0	5.5	8.0	5.0	11.0	7.0	14.5	10.0
29	14.5	14.0	10.5	9.0	7.5	5.0	8.0	5.0	9.0	8.0	14.5	10.5
30	14.0	13.5	11.0	8.5	7.0	5.0	8.0	4.5	---	---	15.5	10.5
31	13.5	13.0	---	---	7.5	5.0	8.0	4.5	---	---	15.5	10.5
MONTH	20.0	13.0	13.5	8.5	10.5	5.0	8.0	4.0	11.5	4.5	15.5	7.0

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

11203200 TULE RIVER NEAR SPRINGVILLE, CALIF.

LOCATION.--Lat 36°06'02", long 118°52'07", in NE¼SW¼ sec.17, T21 S., R.29 E., Tulare County, temperature recorder at gaging station 10 ft downstream from highway bridge, 3.5 miles southwest of Springville, and 4.1 miles upstream from Success Dam.

DRAINAGE AREA.--247 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1963 to July 1966.
Water temperatures: October 1965 to September 1967, October 1968 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 35.5°C July 1; minimum, 3.0°C Jan. 4.

Period of record:
Water temperatures: Maximum, 35.5°C July 1, 1972; minimum (1966-67, 1969-72), 2.5°C Jan. 5-8, 1971.

REMARKS.--Prior to Mar. 20, 1968, gage was located 1.9 miles upstream.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	15.5	14.5	8.5	12.0	8.0	8.0	6.0	9.0	4.5	14.5	10.0
2	22.0	14.5	15.0	9.0	10.0	8.5	7.0	6.0	10.0	6.5	15.0	10.0
3	22.5	15.0	16.0	9.5	9.0	7.5	6.0	4.0	9.0	4.5	15.0	12.0
4	23.0	15.0	16.0	10.5	8.5	7.5	6.5	3.0	8.5	5.5	15.5	13.0
5	24.0	16.0	16.0	11.0	9.5	6.5	6.5	3.5	10.0	8.0	18.0	12.5
6	25.0	16.5	16.0	11.0	8.5	7.0	7.0	3.5	11.0	8.0	18.5	13.5
7	25.0	17.0	16.0	10.5	8.5	6.0	8.0	4.5	12.0	8.0	18.5	14.0
8	25.0	17.0	15.5	10.5	8.0	4.5	7.5	4.5	11.5	9.0	18.5	13.5
9	25.5	18.0	16.0	11.5	8.0	4.5	7.5	4.5	12.5	9.0	18.0	13.5
10	26.0	18.5	16.0	11.0	8.0	6.0	6.5	6.0	12.5	8.5	18.5	14.0
11	25.0	18.5	14.5	13.0	9.5	6.0	6.5	5.5	12.5	8.0	18.5	14.0
12	25.0	18.0	15.0	11.5	8.0	6.0	6.0	5.5	12.5	8.0	18.0	14.0
13	25.5	18.0	12.5	11.0	7.5	6.5	6.0	5.5	12.5	8.0	18.0	15.0
14	25.0	18.0	13.0	10.0	8.0	5.0	7.5	5.0	11.5	8.5	18.5	13.5
15	22.0	16.5	12.0	9.0	8.0	6.5	8.5	4.0	13.0	9.5	19.0	13.5
16	18.0	15.5	12.0	8.5	8.0	5.0	8.5	5.5	13.5	9.0	19.5	14.0
17	19.0	14.0	12.0	7.5	7.5	4.5	9.0	5.0	13.5	9.0	20.0	14.5
18	19.0	13.0	11.5	8.5	8.0	4.5	9.0	5.5	14.5	10.0	20.0	14.5
19	19.0	12.5	11.5	7.5	8.5	5.0	8.0	6.0	15.0	10.5	19.0	13.5
20	17.5	13.0	11.5	7.0	8.0	4.5	8.0	6.5	14.0	9.5	19.0	13.5
21	18.5	12.5	12.0	7.5	7.0	4.5	9.0	6.5	14.0	10.5	18.5	13.0
22	18.5	12.5	11.5	7.5	10.5	7.0	10.0	6.5	15.5	11.5	18.0	13.0
23	16.5	13.5	11.5	7.5	9.5	8.5	8.0	6.0	14.5	10.5	17.0	12.5
24	16.5	13.5	11.5	7.5	10.0	8.0	9.0	5.0	15.0	10.0	18.0	12.0
25	17.5	12.0	11.5	8.0	8.0	7.0	9.0	6.0	14.5	9.5	18.0	12.0
26	17.5	12.0	12.0	8.0	9.0	7.0	8.0	5.5	15.0	10.0	17.0	11.5
27	17.5	12.5	12.0	9.5	8.0	7.0	6.5	5.0	15.5	10.0	15.0	9.0
28	15.0	11.5	12.5	10.0	8.0	6.0	8.5	5.0	15.0	11.0	15.5	9.0
29	14.0	9.0	13.5	10.5	8.5	6.5	8.0	7.0	15.0	12.0	16.0	9.0
30	14.0	8.0	11.5	9.5	8.0	6.5	7.5	5.0	---	---	17.0	10.0
31	14.0	8.5	---	---	7.5	5.5	8.5	4.0	---	---	18.0	11.0
MONTH	26.0	8.0	16.0	7.0	12.0	4.5	10.0	3.0	15.5	4.5	20.0	9.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	12.5	23.0	15.0	30.0	22.0	35.5	25.0	29.0	23.5	31.5	23.0
2	20.0	12.5	24.0	16.0	31.0	23.0	34.0	24.5	28.0	23.0	29.5	23.5
3	21.0	14.0	22.0	17.0	29.5	22.5	34.0	23.5	29.5	22.5	29.0	22.5
4	19.5	15.5	23.0	17.0	30.0	21.5	34.0	24.5	29.5	21.5	27.5	24.5
5	17.0	14.5	23.0	16.0	30.0	22.0	34.5	24.5	30.0	24.0	27.5	23.5
6	19.5	13.0	21.0	16.5	28.0	23.0	33.5	23.0	30.0	24.5	30.0	23.0
7	19.0	13.5	22.5	15.5	26.0	21.5	32.0	23.0	31.0	25.0	30.0	23.0
8	20.0	13.0	22.0	16.0	30.0	22.0	31.0	23.0	31.5	26.0	30.0	23.5
9	19.5	13.0	22.5	15.5	28.0	21.5	30.5	22.0	31.5	26.0	29.5	23.0
10	20.0	14.5	23.0	15.5	24.0	19.5	31.5	22.0	31.5	26.0	28.5	22.0
11	15.5	13.5	25.0	17.0	27.0	17.0	32.0	23.0	31.0	26.0	27.0	20.0
12	16.5	11.5	26.0	18.0	29.0	19.0	33.0	24.0	30.0	24.5	26.0	18.5
13	16.0	12.0	27.0	18.5	29.5	20.5	34.0	25.5	28.5	24.0	27.0	19.0
14	17.0	10.0	27.5	19.5	30.5	20.5	35.0	26.0	26.0	22.0	26.5	19.5
15	18.5	11.5	28.0	19.5	31.5	21.0	34.5	27.0	26.0	20.5	27.5	20.0
16	19.5	13.0	27.0	19.5	31.5	21.5	33.0	26.5	26.0	19.0	27.5	20.0
17	19.5	14.0	23.5	18.5	32.0	21.5	31.5	25.5	26.5	19.5	27.0	19.5
18	19.0	13.5	23.0	17.0	32.5	22.0	32.0	25.5	27.5	22.0	26.0	20.0
19	18.0	12.0	18.5	15.5	32.5	22.5	31.5	25.0	27.0	21.5	26.0	20.0
20	19.0	11.5	20.5	14.5	31.5	22.5	29.5	23.5	28.0	21.5	26.5	19.0
21	20.0	12.5	20.5	14.5	32.5	22.0	30.0	22.0	28.0	22.5	27.0	19.5
22	21.0	13.5	23.5	15.0	31.0	22.5	31.5	23.5	29.0	23.5	26.5	19.5
23	22.5	15.0	25.0	17.0	30.0	21.0	32.5	24.5	28.5	23.0	26.0	19.0
24	20.5	14.5	25.5	18.0	30.0	21.0	32.0	22.5	28.5	23.0	24.5	19.5
25	20.5	14.0	26.0	18.0	30.5	21.0	31.5	23.0	28.0	22.5	24.0	17.5
26	22.0	14.0	27.5	18.5	31.5	21.5	31.0	23.0	29.0	23.0	24.5	17.5
27	23.5	15.0	28.5	19.5	32.0	22.0	30.5	23.0	27.5	24.0	25.5	18.5
28	23.0	16.0	29.0	20.5	33.0	22.5	30.5	24.0	27.0	23.5	26.0	19.5
29	21.5	15.0	29.5	21.0	34.0	23.0	27.5	25.0	29.0	23.5	24.0	20.5
30	22.0	14.5	30.0	21.0	34.5	24.5	30.0	25.0	27.5	25.0	25.5	20.0
31	---	---	30.0	22.0	---	---	30.5	25.5	28.0	24.0	---	---
MONTH	23.5	10.0	30.0	14.5	34.5	17.0	35.5	22.0	31.5	19.0	31.5	17.5

11204900 TULE RIVER BELOW SUCCESS DAM, CALIF.

LOCATION.--Lat 36°03'23", long 118°55'22", in SW¼ sec.35, T.21 S., R.28 E., Tulare County, at gaging station 1,000 ft downstream from Success Dam, and 5 miles east of Porterville.

DRAINAGE AREA.--393 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1961 to September 1969, water years 1970-72 (partial-record station).
Water temperatures: November 1970 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum recorded, 29.0°C Sept. 13-15; minimum, 5.5°C Feb. 3.

Period of record:
Water temperatures: Maximum (recorded), 29.0°C Sept. 13-15, 1972; minimum, 4.0°C Jan. 5, 1971.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Probe out of water Apr. 8; recorder malfunction July 22 to Sept. 7.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
JUNE 27...	1245	29	34	5.3	17	163	0	134

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
JUNE 27...	7.8	.00	107	0	.7	285	7.9

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
JUNE 27...	1245	29	270	8.0

11204900 TULE RIVER BELOW SUCCESS DAM, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	9.5	16.5	11.0	16.0	14.0	18.5	13.0	---	---	---	---
2	14.0	9.5	16.5	12.0	15.5	14.0	18.0	13.0	---	---	---	---
3	14.0	9.5	15.0	11.5	15.5	13.5	17.5	14.0	---	---	---	---
4	13.5	10.5	16.5	11.0	15.5	13.5	17.0	13.0	---	---	---	---
5	12.0	10.5	16.5	11.5	16.5	13.5	18.0	15.5	---	---	---	---
6	14.0	10.0	16.0	11.0	15.5	13.0	18.5	14.0	---	---	---	---
7	14.5	10.0	16.5	11.0	15.5	13.5	19.0	16.5	---	---	---	---
8	---	---	16.5	11.5	15.5	13.5	19.0	15.5	---	---	27.0	23.5
9	15.5	11.0	17.0	11.0	15.5	13.5	18.5	16.5	---	---	27.0	23.0
10	14.5	10.5	17.5	11.5	16.0	13.5	19.5	16.5	---	---	26.5	23.5
11	12.5	10.0	18.0	12.0	18.5	13.0	19.5	16.5	---	---	26.0	23.0
12	15.0	10.0	18.0	12.0	18.5	13.0	19.5	17.5	---	---	25.5	20.5
13	15.5	9.5	18.5	12.5	19.0	13.5	19.0	18.0	---	---	29.0	17.0
14	16.5	10.0	18.5	12.0	16.0	14.0	19.5	18.0	---	---	29.0	18.0
15	17.0	10.0	18.0	11.5	16.0	14.5	19.5	18.5	---	---	29.0	18.0
16	17.0	10.5	17.5	12.5	16.5	13.5	20.0	18.5	---	---	25.0	18.5
17	13.5	11.0	17.5	11.5	17.0	14.5	19.5	18.0	---	---	25.5	22.0
18	13.0	11.0	17.0	12.0	16.5	15.0	20.0	18.0	---	---	24.5	22.0
19	13.5	11.0	16.0	11.5	16.5	14.0	20.0	17.5	---	---	25.0	22.0
20	14.0	11.0	16.5	12.0	16.5	13.0	19.5	17.5	---	---	24.5	21.5
21	14.0	11.0	16.5	12.5	17.0	13.5	20.0	17.5	---	---	25.0	21.5
22	14.5	11.0	17.5	12.0	17.0	12.5	---	---	---	---	24.5	21.5
23	14.0	11.0	17.5	12.5	16.5	13.5	---	---	---	---	24.0	21.5
24	14.0	11.0	18.0	12.0	17.5	13.5	---	---	---	---	24.0	21.5
25	14.5	11.0	18.0	12.0	17.5	13.0	---	---	---	---	23.5	21.0
26	14.5	11.0	18.5	12.5	17.5	13.0	---	---	---	---	23.5	21.0
27	14.5	11.5	18.5	13.0	17.5	13.0	---	---	---	---	23.5	21.0
28	16.5	10.5	18.5	13.0	17.5	12.5	---	---	---	---	23.5	21.0
29	16.5	11.0	18.5	13.0	18.0	13.0	---	---	---	---	23.0	21.0
30	16.5	11.0	18.5	13.0	17.5	12.5	---	---	---	---	23.5	21.5
31	---	---	16.0	14.0	---	---	---	---	---	---	---	---
MONTH	17.0	9.5	18.5	11.0	19.0	12.5	---	---	---	---	---	---

11206500 MIDDLE FORK KAWEAH RIVER NEAR POTWISHA CAMP, CALIF.

LOCATION.--Lat 36°30'46", long 118°47'25", in NW¼NW¼ sec.25, T.16 S., R.29 E., Tulare County, Sequoia National Park, temperature recorder at gaging station on right bank 0.7 mile southeast of Potwisha Camp, and 0.9 mile upstream from confluence with Marble Fork Kaweah River.

DRAINAGE AREA.--102 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1958 to January 1963, October 1971 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 24.5°C Aug. 9-11; minimum, freezing point Dec. 8, 9.

Period of record:
Water temperatures (1958-62, 1971-72): Maximum, 26.0°C July 27, 1959; minimum, freezing point Dec. 8, 9, 1971.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.5	5.5	4.5	4.5	3.0	1.0	1.0	3.0	1.0	8.0	6.5
2	12.0	10.5	6.5	5.5	3.5	2.0	2.0	1.0	3.0	1.5	8.0	6.5
3	13.0	11.0	7.0	5.5	3.5	3.0	2.0	2.0	3.0	1.0	8.5	7.0
4	14.0	11.0	8.0	6.0	3.0	2.0	2.0	1.0	4.0	2.0	9.0	8.0
5	14.5	12.0	8.0	6.5	3.0	1.5	1.0	0.5	4.5	4.0	9.5	8.0
6	14.5	12.0	8.0	6.5	3.0	2.0	1.5	1.0	5.0	4.5	10.0	8.0
7	15.0	12.0	8.0	6.5	3.0	2.0	3.5	2.0	5.0	4.5	9.5	8.0
8	15.5	13.0	7.0	6.5	2.0	0.0	3.5	2.0	5.0	4.0	9.0	8.0
9	15.5	13.5	6.5	6.0	0.5	0.0	3.5	2.0	5.0	4.5	9.0	8.0
10	16.0	14.0	6.5	6.0	1.0	0.5	2.0	2.0	5.0	4.0	9.5	8.5
11	16.0	14.0	9.0	6.5	1.0	0.5	3.5	2.0	5.0	4.0	9.5	8.5
12	15.5	14.0	9.0	7.0	1.0	0.5	3.5	3.0	5.0	4.0	9.5	9.0
13	15.5	13.5	7.0	6.0	1.5	1.0	3.5	3.5	5.0	3.5	10.0	10.0
14	15.5	13.5	6.0	5.5	1.5	1.0	3.5	3.5	5.0	4.5	10.0	8.0
15	14.5	12.0	5.5	5.0	1.5	1.0	4.0	3.5	5.5	5.0	10.0	8.5
16	12.0	10.5	5.0	3.5	1.5	0.5	4.0	3.5	5.5	5.0	10.0	8.5
17	10.5	9.0	4.5	3.5	1.0	0.5	4.0	3.5	5.5	5.0	10.5	9.0
18	9.5	8.5	4.0	3.5	1.0	1.0	4.0	3.5	6.0	5.5	10.5	9.5
19	9.5	8.0	3.5	3.0	1.0	1.0	4.5	3.5	7.0	5.5	10.5	9.0
20	9.0	8.5	3.5	3.0	1.0	0.5	4.5	4.0	6.0	5.0	10.0	8.5
21	10.0	8.5	4.0	3.5	1.5	0.5	4.5	4.5	6.5	5.5	9.5	8.5
22	10.0	8.5	4.0	3.5	3.5	1.5	4.5	4.0	8.0	6.5	9.5	8.5
23	9.5	9.0	4.0	3.5	3.5	3.5	4.5	4.0	8.0	6.0	9.0	8.0
24	9.5	9.0	4.5	3.5	4.0	3.5	4.5	3.5	7.0	6.0	9.0	7.0
25	9.0	8.0	4.5	3.5	3.5	3.0	3.5	3.5	7.0	6.0	9.0	8.0
26	9.0	8.0	4.5	4.0	3.0	1.0	3.5	3.5	8.0	6.5	9.0	6.5
27	9.0	8.0	4.5	4.5	1.0	1.0	3.5	2.0	8.0	6.5	6.5	4.5
28	9.0	8.0	5.5	4.5	2.0	1.0	3.5	2.0	8.0	6.0	6.0	4.0
29	8.0	5.5	5.5	5.5	2.0	1.0	4.0	3.5	8.5	7.0	6.5	4.5
30	5.5	4.5	5.5	4.5	1.5	1.0	4.0	2.0	---	---	8.0	5.0
31	5.5	4.5	---	---	1.0	0.5	3.5	2.0	---	---	8.5	6.0
MONTH	16.0	4.5	9.0	3.0	4.5	0.0	4.5	0.5	8.5	1.0	10.5	4.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	7.0	11.0	8.5	17.0	14.5	23.0	19.5	23.5	21.0	22.0	19.0
2	10.5	8.5	11.5	9.0	16.5	14.5	23.0	20.0	23.0	20.0	21.0	19.0
3	11.0	9.0	11.5	9.0	16.5	14.0	22.0	19.0	23.5	20.0	21.0	19.0
4	10.5	9.0	11.0	9.5	16.5	14.5	22.0	19.0	23.5	20.0	20.0	19.5
5	9.5	9.0	12.0	9.0	15.5	13.5	22.0	19.0	23.5	20.0	20.0	19.0
6	10.0	9.0	12.0	10.0	15.0	14.5	21.5	19.0	23.5	21.0	19.5	16.5
7	10.0	9.0	11.0	9.0	15.5	13.5	21.0	18.0	23.5	21.0	20.0	18.0
8	10.0	8.0	11.0	9.0	15.5	13.5	20.5	18.0	23.5	21.0	20.0	18.0
9	10.0	8.0	10.0	9.0	14.0	13.0	21.0	17.0	24.5	21.0	19.5	17.0
10	9.5	9.0	11.0	8.5	14.0	12.0	21.0	18.0	24.5	22.0	19.0	16.5
11	9.0	8.0	13.0	9.0	14.0	11.0	22.0	18.0	24.5	22.0	18.0	15.5
12	8.0	6.5	13.5	10.0	15.5	12.0	23.0	19.0	23.5	21.0	16.5	14.5
13	8.0	5.5	13.5	10.5	16.5	13.5	23.5	20.0	23.0	21.0	16.5	14.0
14	6.5	3.5	14.0	11.0	17.0	14.5	24.0	20.5	21.0	19.0	16.5	14.5
15	8.5	5.5	14.5	11.0	18.0	14.5	24.0	21.0	20.5	18.0	18.0	14.5
16	9.0	6.5	13.5	10.5	18.0	15.5	24.0	21.5	20.0	17.0	18.0	15.5
17	9.5	8.0	13.5	10.5	18.5	15.5	23.5	21.0	20.0	16.5	18.5	15.5
18	9.0	6.5	11.0	10.0	19.0	16.0	23.5	21.0	21.0	18.0	18.0	16.0
19	7.0	5.5	11.0	8.5	19.0	16.5	23.5	21.0	21.0	19.0	16.5	16.0
20	8.0	5.5	8.5	7.0	19.0	16.5	23.0	21.0	21.0	18.5	17.0	14.5
21	9.0	5.5	10.0	8.0	19.0	16.5	21.5	19.0	22.0	19.0	18.0	15.0
22	9.5	6.5	12.0	9.0	19.0	16.5	22.0	19.0	22.0	19.0	18.0	15.5
23	9.5	6.5	13.5	11.0	18.5	15.5	22.0	19.5	22.0	19.5	18.0	15.0
24	9.5	7.0	13.5	11.0	18.0	16.0	21.5	19.0	22.0	19.5	16.5	15.0
25	9.0	7.0	13.5	11.0	19.0	15.5	22.0	19.0	22.0	19.0	16.0	13.5
26	10.0	8.0	14.5	11.5	19.0	15.5	22.0	19.0	22.0	19.0	15.5	13.5
27	10.5	8.0	15.5	12.0	20.0	16.5	22.0	19.0	21.0	19.5	16.5	14.0
28	10.5	8.5	15.5	13.0	21.0	18.0	23.0	19.5	20.5	19.0	17.0	14.5
29	10.5	8.5	15.5	13.5	21.5	18.5	22.0	21.0	21.5	19.0	16.5	15.5
30	10.5	8.0	16.5	13.5	22.0	19.0	23.0	20.5	21.0	20.0	17.0	15.0
31	---	---	17.0	14.5	---	---	24.0	21.0	21.0	19.0	---	---
MONTH	11.0	3.5	17.0	7.0	22.0	11.0	24.0	17.0	24.5	16.5	22.0	13.5

11208000 MARBLE FORK KAWEAH RIVER AT POTWISHA CAMP, CALIF.

LOCATION.--Lat 36°31'08", long 118°48'03", in SE¼ sec.23, T.16 S., R.29 E., Tulare County, Sequoia National Park, temperature recorder at gaging station on left bank, 0.1 mile north of Potwisha Camp, 0.3 mile upstream from confluence with Middle Fork Kaweah River, and 7.9 miles northeast of Three Rivers.
DRAINAGE AREA.--51.4 sq mi.
PERIOD OF RECORD.--Water temperatures: January 1962 to September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 23.5°C July 15, 16, Aug. 10-12.
Period of record:
Water temperatures: Maximum, 23.5°C on several days in 1964, 1966, 1970, and 1972; minimum (1963-71), freezing point Jan. 4-8, 1971.
REMARKS.--Probe inoperative Oct. 20 to Dec. 30, Sept. 4-6. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT MAX	OCT MIN	OCT DAILY	NOV MAX	NOV MIN	NOV DAILY	DEC MAX	DEC MIN	DEC DAILY	JAN MAX	JAN MIN	JAN DAILY	FEB MAX	FEB MIN	FEB DAILY	MAR MAX	MAR MIN	MAR DAILY
1	13.0	11.0	--	--	--	--	--	--	--	4.5	3.5	--	3.5	3.5	--	6.5	5.5	--
2	13.0	11.5	--	--	--	--	--	--	--	4.5	4.5	--	3.5	3.5	--	8.0	6.5	--
3	13.0	11.5	--	4.5	--	--	--	--	--	4.5	4.0	--	3.5	3.0	--	8.0	6.5	--
4	13.5	12.0	--	--	--	--	--	--	--	4.0	3.5	--	4.0	3.5	--	9.0	7.0	--
5	14.0	13.0	--	--	--	--	--	--	--	3.5	3.0	--	4.5	4.0	--	9.5	8.0	--
6	14.5	13.5	--	--	--	--	--	--	--	4.5	3.5	--	4.5	4.5	--	10.0	8.0	--
7	15.0	14.0	--	--	--	--	--	--	--	4.5	4.5	--	5.0	4.5	--	9.5	8.0	--
8	15.0	14.5	--	--	--	--	--	1.5	--	4.5	4.5	--	5.0	5.0	--	9.5	8.0	--
9	15.5	14.5	--	--	--	--	--	--	--	4.5	4.0	--	5.5	5.0	--	9.0	8.0	--
10	15.5	15.0	--	--	--	--	--	--	--	4.0	3.5	--	5.5	4.5	--	9.0	8.0	--
11	15.5	15.0	--	--	--	--	--	--	--	4.0	3.5	--	5.5	5.0	--	9.0	8.5	--
12	15.5	15.0	--	--	--	--	--	--	--	4.0	4.0	--	5.5	5.0	--	9.0	7.0	--
13	15.5	14.5	--	--	--	--	--	--	--	4.0	3.5	--	5.5	5.0	--	9.0	9.0	--
14	15.5	14.5	--	--	--	--	--	--	--	4.5	4.0	--	5.5	5.0	--	9.0	8.0	--
15	15.5	14.0	--	--	--	--	--	--	--	5.0	4.0	--	6.0	5.5	--	10.0	8.0	--
16	14.0	11.0	--	--	--	--	--	--	--	5.0	4.5	--	6.0	5.0	--	10.0	9.0	--
17	11.0	10.0	--	--	--	--	--	--	--	4.5	4.0	--	6.5	5.0	--	10.0	9.0	--
18	10.0	9.5	--	--	--	--	--	--	--	4.5	4.0	--	6.5	5.5	--	10.0	9.0	--
19	10.0	9.5	--	--	--	--	--	--	--	5.0	4.5	--	6.5	6.0	--	10.0	8.5	--
20	--	--	--	--	--	--	--	--	--	4.5	4.5	--	6.5	5.5	--	9.5	8.0	--
21	--	--	--	--	--	--	--	--	--	4.5	4.5	--	6.5	5.5	--	10.0	8.0	--
22	--	--	--	--	--	--	--	--	--	4.5	4.5	--	8.0	6.5	--	9.0	8.0	--
23	--	--	--	--	--	--	--	--	--	4.5	4.5	--	7.0	5.5	--	8.5	6.5	--
24	--	--	--	--	--	--	--	--	--	4.5	4.0	--	6.5	5.5	--	8.5	6.5	--
25	--	--	--	--	--	--	--	--	--	4.5	4.0	--	6.5	6.0	--	9.0	8.0	--
26	--	--	--	--	--	--	--	--	--	4.5	3.5	--	7.0	6.0	--	8.5	6.0	--
27	--	--	--	--	--	--	--	--	--	3.5	3.0	--	8.0	6.0	--	6.5	5.0	--
28	--	--	--	--	--	--	--	--	--	3.5	3.0	--	7.0	6.0	--	6.5	4.5	--
29	--	--	--	--	--	--	--	--	--	3.5	3.5	--	7.0	6.5	--	6.5	4.5	--
30	--	--	--	--	--	--	--	--	--	3.5	3.5	--	--	--	--	8.0	5.5	--
31	--	--	--	--	--	--	3.5	3.5	--	3.5	3.5	--	--	--	--	8.5	6.5	--
MONTH	--	--	--	--	--	--	--	--	--	5.0	3.0	--	8.0	3.0	--	10.0	4.5	--

DAY	APR MAX	APR MIN	APR DAILY	MAY MAX	MAY MIN	MAY DAILY	JUN MAX	JUN MIN	JUN DAILY	JUL MAX	JUL MIN	JUL DAILY	AUG MAX	AUG MIN	AUG DAILY	SEP MAX	SEP MIN	SEP DAILY
1	8.5	8.0	--	11.0	8.5	--	16.0	14.5	--	20.0	18.0	--	22.0	20.5	--	21.0	20.0	--
2	10.0	8.5	--	11.5	9.0	--	16.0	15.0	--	20.0	18.0	--	21.5	20.0	--	21.0	20.0	--
3	10.5	9.0	--	11.5	9.5	--	15.5	14.5	--	19.5	17.0	--	21.0	20.0	--	20.5	20.0	--
4	10.0	9.5	--	11.0	10.0	--	15.5	14.5	--	19.5	17.0	--	21.0	20.0	--	--	--	--
5	9.5	9.0	--	11.5	9.5	--	15.5	14.5	--	20.0	18.0	--	21.5	20.0	--	--	--	--
6	10.0	8.5	--	11.5	10.0	--	15.0	14.5	--	19.5	18.0	--	21.5	21.0	--	--	--	--
7	9.0	8.0	--	10.0	9.0	--	15.0	14.0	--	20.0	18.0	--	22.0	21.0	--	19.0	18.0	--
8	9.0	6.5	--	10.0	8.5	--	15.5	14.0	--	19.5	18.0	--	22.0	21.0	--	19.5	19.0	--
9	9.5	8.0	--	9.5	8.5	--	14.5	13.5	--	20.0	18.0	--	23.0	21.5	--	19.5	17.0	--
10	10.0	9.0	--	10.5	9.0	--	13.5	12.0	--	20.0	18.5	--	23.5	22.0	--	18.5	16.5	--
11	9.0	8.0	--	10.5	10.0	--	13.5	11.0	--	20.5	19.0	--	23.5	22.0	--	18.0	16.5	--
12	8.0	6.0	--	11.0	9.5	--	14.5	12.0	--	21.5	19.0	--	23.5	22.0	--	17.0	15.5	--
13	6.5	5.0	--	11.5	9.5	--	15.5	13.5	--	22.0	20.0	--	22.0	21.0	--	16.0	15.5	--
14	6.5	4.0	--	12.0	10.0	--	16.0	14.5	--	23.0	20.5	--	21.5	20.0	--	16.5	16.0	--
15	9.0	5.5	--	12.0	10.0	--	16.5	14.5	--	23.5	21.0	--	20.5	19.0	--	16.5	16.5	--
16	9.0	7.0	--	12.0	10.0	--	17.0	15.0	--	23.5	21.5	--	19.5	18.5	--	17.0	16.5	--
17	9.0	8.0	--	11.5	9.5	--	18.0	15.0	--	23.0	21.0	--	19.0	18.0	--	17.0	16.5	--
18	8.0	6.5	--	10.0	9.5	--	18.0	15.0	--	23.0	21.0	--	20.0	18.5	--	17.0	16.5	--
19	7.0	5.5	--	9.5	7.0	--	18.0	15.5	--	22.0	21.0	--	20.0	19.0	--	17.0	16.5	--
20	8.0	5.0	--	7.0	5.5	--	18.0	15.5	--	22.0	20.5	--	20.0	19.0	--	16.5	15.5	--
21	9.0	6.5	--	7.0	6.5	--	18.0	16.0	--	21.0	19.0	--	20.0	19.0	--	16.5	15.5	--
22	9.0	7.0	--	10.0	7.0	--	16.5	15.5	--	20.5	19.0	--	20.5	19.5	--	16.5	16.0	--
23	9.5	7.0	--	11.0	9.0	--	16.0	14.5	--	21.0	19.5	--	20.5	20.0	--	16.5	16.0	--
24	9.5	8.0	--	11.0	10.0	--	16.5	14.5	--	21.0	19.0	--	20.5	20.0	--	16.5	15.5	--
25	9.0	8.0	--	12.0	11.0	--	16.0	14.5	--	20.0	19.0	--	20.5	20.0	--	16.0	15.0	--
26	10.0	8.0	--	13.5	11.0	--	16.5	14.5	--	20.0	19.0	--	20.5	20.0	--	15.5	14.5	--
27	10.0	8.5	--	14.0	12.0	--	17.0	15.0	--	20.0	18.5	--	20.5	20.0	--	15.5	15.0	--
28	10.0	8.0	--	14.5	12.0	--	18.5	15.5	--	21.0	19.0	--	20.0	20.0	--	16.5	15.5	--
29	10.0	8.0	--	15.0	13.5	--	19.0	16.5	--	21.0	20.0	--	20.5	19.5	--	16.0	16.0	--
30	10.0	8.0	--	15.5	13.5	--	19.5	16.5	--	21.0	20.0	--	20.5	20.0	--	16.5	16.0	--
31	--	--	--	16.0	14.5	--	--	--	--	22.0	20.5	--	20.0	20.0	--	--	--	--
MONTH	10.5	4.0	--	16.0	5.5	--	19.5	11.0	--	23.5	17.0	--	23.5	18.0	--	21.0	14.5	--

11208610 MONARCH CREEK NEAR HAMMOND, CALIF.

LOCATION.--Lat 36°27'09", long 118°35'37", in SE¼NW¼ sec.15, T.17 S., R.31 E., Tulare County, Sequoia National Forest, at gaging station on right bank, 0.2 mile upstream from mouth, 0.3 mile northeast of Mineral King, and 14.9 miles east of Hammond.

DRAINAGE AREA.--1.89 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1968 to September 1972.
Water temperatures: October 1968 to September 1972.
Sediment records: Water years 1968-71 (partial-record station).

EXTREMES, 1971-72:
Water temperatures: Maximum, 17.0°C July 18; minimum, freezing point on many days during November to January.

Period of record:
Water temperatures: Maximum, 17.0°C July 18, 1972; minimum (1969-72), freezing point on many days during winter period of most years.

REMARKS.--Field determinations made and samples for chemical analyses collected by U.S. Forest Service.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	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)	TEMPER-ATURE (DEG C)
OCT.									
26...	1630	.05	.09	.19	.28	.33	.08	.08	--
JAN.									
05...	0745	.18	.04	.24	.28	.46	.01	.00	.0
FEB.									
29...	1610	.16	.05	.13	.18	.34	.04	.00	3.5
MAY									
01...	1630	.11	.02	.08	.10	.21	.02	.00	7.5
JUNE									
20...	1200	.01	.03	.10	.13	.14	.07	.00	12.0
JULY									
25...	1230	.04	.02	.32	.34	.38	.02	.00	13.5
SEP.									
05...	1700	.07	.46	.07	.53	.60	.05	.00	10.0

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	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)	PER-CENT SATUR-ATION
OCT.												
26...	1630	--	38	0	31	38	7	100	7.2	--	9.1	--
JAN.												
05...	0745	--	32	0	26	30	4	95	7.3	.0	11.1	104
FEB.												
29...	1610	--	36	0	30	36	6	75	7.4	3.5	10.3	106
MAY												
01...	1630	--	20	0	16	26	10	52	6.9	7.5	9.2	105
JUNE												
20...	1200	E4.0	20	0	16	--	--	80	6.5	12.0	8.4	106
JULY												
25...	1230	E5.0	36	0	30	32	2	90	6.4	13.5	8.2	106
SEP.												
05...	1700	--	16	0	13	18	5	44	7.1	10.0	8.5	102

E Estimated.

11208610 MONARCH CREEK NEAR HAMMOND, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	4.5	3.5	2.0	2.0	0.0	2.0	0.0	3.5	1.5	6.0	3.5
2	5.5	4.5	3.5	2.0	2.0	1.5	2.0	0.0	3.5	1.0	4.5	3.0
3	5.5	4.5	3.5	2.0	2.5	1.5	2.0	0.0	3.5	1.0	4.5	3.0
4	5.5	4.5	3.5	2.0	2.0	0.0	2.0	0.0	3.0	1.5	4.0	3.0
5	5.0	4.5	3.0	1.5	1.0	0.0	2.0	0.0	3.5	3.0	4.0	3.0
6	5.0	4.0	3.0	1.5	1.0	0.0	2.0	0.0	4.0	2.5	4.5	3.0
7	5.0	4.0	3.0	2.0	2.0	0.0	2.5	0.0	4.0	1.5	4.5	2.5
8	5.0	4.0	3.0	1.5	2.0	0.0	2.5	0.0	4.0	2.5	4.5	3.0
9	5.5	4.0	3.0	2.5	2.0	0.0	2.0	0.5	4.0	2.0	4.5	2.5
10	5.5	4.0	3.0	2.0	2.5	0.0	2.5	2.0	4.0	2.0	4.5	3.0
11	5.5	4.0	3.0	2.5	2.0	0.0	2.5	0.5	4.5	2.5	5.0	3.0
12	5.0	4.0	3.0	2.5	2.0	0.5	2.5	2.0	4.5	2.0	4.5	3.0
13	5.0	4.0	3.0	2.5	2.0	0.0	2.5	0.5	4.0	2.0	5.0	3.0
14	5.0	4.0	3.5	1.0	2.0	0.0	2.5	0.0	4.5	2.5	4.5	2.5
15	4.5	4.0	3.5	1.0	2.0	0.0	2.5	1.0	4.5	2.5	5.0	3.0
16	5.0	4.0	3.5	1.0	2.0	0.0	2.5	0.0	4.5	2.5	5.0	3.0
17	5.0	4.0	2.5	0.5	2.0	0.0	2.0	0.0	4.5	2.5	5.5	3.0
18	5.0	3.5	2.5	1.0	2.0	0.0	2.0	0.0	4.5	3.0	5.5	3.0
19	4.5	3.0	2.5	0.5	2.0	0.0	1.5	0.0	4.5	3.0	5.5	3.0
20	4.5	4.0	2.5	1.0	2.0	0.0	1.5	0.0	4.5	3.0	5.5	3.0
21	5.0	3.5	2.5	1.0	2.0	1.0	2.5	1.0	5.5	4.0	5.5	2.5
22	4.5	3.5	2.5	0.5	2.0	1.5	2.5	0.5	5.5	3.5	4.5	2.0
23	4.5	4.0	2.0	0.0	2.0	1.0	2.5	0.5	6.0	3.5	5.0	2.0
24	4.5	4.0	2.0	0.0	2.0	1.5	3.0	0.5	5.5	4.0	6.0	2.5
25	4.5	2.5	2.0	0.0	2.5	1.5	2.0	1.0	6.0	3.5	5.5	3.0
26	4.5	3.0	2.0	0.5	2.5	1.0	2.5	0.5	6.0	5.5	4.0	2.0
27	4.5	3.0	2.0	0.5	2.5	2.0	2.5	1.5	6.0	5.5	2.5	1.5
28	5.0	4.0	2.0	1.5	2.5	1.0	2.5	1.0	5.5	4.0	3.5	1.5
29	5.0	3.5	3.0	0.0	2.5	0.5	2.5	0.5	5.5	3.5	4.0	1.5
30	4.5	2.5	1.5	0.0	2.5	0.0	3.0	0.0	---	---	5.0	2.0
31	4.0	2.5	---	---	2.0	0.0	3.0	0.5	---	---	4.5	2.5
MONTH	6.0	2.5	3.5	0.0	2.5	0.0	3.0	0.0	6.0	1.0	6.0	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	4.5	3.0	7.0	3.5	8.5	6.5	13.5	9.0	15.5	10.0	12.0	8.5
2	6.0	3.0	7.5	4.0	9.0	7.0	13.5	9.5	15.5	9.0	12.0	8.0
3	6.5	2.5	7.0	4.0	10.0	6.5	13.0	9.0	15.0	9.0	12.0	8.0
4	4.0	3.0	7.5	4.5	9.0	6.5	13.0	8.5	15.0	8.0	10.5	9.0
5	4.0	3.5	7.0	4.0	9.0	6.5	13.5	10.0	15.0	8.5	11.0	8.5
6	5.0	2.0	6.0	3.5	8.5	7.5	13.0	8.0	13.5	9.5	12.0	8.0
7	6.0	2.5	6.5	3.0	8.5	7.0	13.0	8.5	14.0	10.0	11.5	8.0
8	6.0	2.0	7.0	3.0	8.5	7.5	12.0	9.0	15.5	9.0	11.0	8.5
9	5.0	3.0	5.0	2.5	8.5	6.5	13.5	8.5	15.5	9.0	11.5	7.5
10	4.0	3.0	7.0	3.5	9.5	5.0	14.5	9.0	14.5	9.0	11.5	7.0
11	3.0	2.0	7.5	3.5	10.5	5.0	15.0	9.5	13.0	9.0	10.0	6.0
12	2.5	1.5	7.5	3.5	10.5	6.5	15.5	10.0	12.0	9.5	10.5	4.5
13	2.0	1.0	7.5	3.5	11.0	6.5	15.5	11.5	13.5	8.5	11.0	5.0
14	3.5	1.0	7.5	3.5	11.5	7.0	15.0	10.0	13.0	7.0	10.5	5.5
15	4.5	2.0	7.0	3.5	11.5	7.0	15.5	10.5	12.5	6.0	11.0	6.0
16	5.5	2.0	6.5	3.5	12.0	7.5	16.0	11.0	13.0	6.5	11.0	6.5
17	5.0	2.5	5.5	4.0	12.0	7.5	16.5	10.5	13.5	7.5	11.0	6.0
18	2.5	1.5	6.0	4.0	12.0	7.0	17.0	10.5	13.5	7.5	10.0	6.5
19	3.0	1.0	4.0	3.0	13.0	7.5	16.0	9.5	13.5	7.0	9.5	6.0
20	4.5	1.5	4.5	2.5	12.0	6.5	14.0	8.5	13.5	7.0	10.5	5.5
21	6.0	2.0	5.0	3.0	12.5	8.0	13.5	7.0	14.0	7.0	10.5	5.5
22	6.5	3.0	7.5	4.0	11.5	8.0	14.5	8.0	14.5	8.0	10.0	4.5
23	7.5	3.0	8.5	4.0	12.0	7.0	14.0	8.0	14.5	8.5	10.0	5.0
24	5.5	3.5	9.0	3.5	11.0	6.5	13.5	7.5	14.0	8.0	9.5	5.0
25	7.0	3.0	9.0	4.5	12.0	5.5	13.5	7.0	13.0	8.0	9.5	4.5
26	7.0	3.5	9.5	4.5	12.5	7.5	13.5	7.0	12.0	7.5	9.0	4.5
27	7.0	4.0	10.0	4.5	12.5	8.5	14.5	8.0	11.5	8.0	10.0	5.5
28	7.0	3.5	9.0	5.5	12.5	9.0	15.0	8.5	11.0	9.0	11.0	5.5
29	7.0	3.5	9.5	6.0	13.0	9.0	13.5	10.0	11.5	9.0	9.5	6.5
30	7.0	3.5	9.0	6.0	13.0	9.0	14.0	11.0	11.0	9.0	9.5	6.5
31	---	---	8.5	6.0	---	---	16.5	10.5	11.5	9.0	---	---
MONTH	7.5	1.0	10.0	2.5	13.0	5.0	17.0	7.0	15.5	6.0	12.0	4.5

11208620 EAST FORK KAWEAH RIVER BELOW MOSQUITO CREEK, NEAR HAMMOND, CALIF.

LOCATION.--Lat 36°27'05", long 118°37'04", in SW¼NW¼ sec.16, T.17 S., R.13 E., Tulare County, Sequoia National Forest, at gaging station on right bank, 300 ft downstream from Mosquito Creek, and 13.2 miles east of Hammond.

DRAINAGE AREA.--16.0 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1968 to September 1972.
Water temperatures: August 1968 to September 1972.
Sediment records: Water years 1968-71 (partial-record station).

EXTREMES, 1971-72:
Water temperatures: Maximum, 19.5°C July 12; minimum, freezing point on several days during December and January.

Period of record:
Water temperatures: Maximum, 19.5°C July 12, 1972; minimum, freezing point on many days during winter period of most years.

REMARKS.--Field determinations made and samples for chemical analyses collected by U.S. Forest Service.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	ALKA-LINITY AS CACO3 (MG/L)
OCT. 27...	1530	--	--	--	--	--	--	--	--	--
JAN. 05...	0900	--	--	--	--	--	--	--	--	--
MAR. 01...	0700	--	--	--	--	--	--	--	--	--
MAY 01...	1845	--	--	--	--	--	--	--	--	--
JUNE 21...	0745	6.0	30	16	.8	.9	.3	53	0	43
JULY 25...	1715	--	--	--	--	--	--	--	--	--
SEP. 06...	1100	--	--	--	--	--	--	--	--	--

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 AMMONIA NITRO-GEN (N) (MG/L)	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)
OCT. 27...	--	--	--	.03	.13	.12	.25	.28	.04	.05
JAN. 05...	--	--	--	.11	.04	.17	.21	.32	.02	.00
MAR. 01...	--	--	--	.15	.08	.19	.27	.42	.01	.01
MAY 01...	--	--	--	.09	.01	.10	.11	.20	.02	.00
JUNE 21...	5.3	.4	.0	.07	.10	.16	.26	.33	.01	.00
JULY 25...	--	--	--	.04	.05	.15	.20	.24	.02	.01
SEP. 06...	--	--	--	.04	1.3	.10	1.4	1.4	.03	.01

11208620 EAST FORK KAWEAH RIVER BELOW MOSQUITO CREEK, NEAR HAMMOND, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
OCT.										
27...	--	--	--	--	--	--	--	--	5.5	--
JAN.										
05...	--	--	--	--	--	--	--	--	.0	--
MAR.										
01...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	7.0	--
JUNE										
21...	56	.08	43	0	4	.1	95	8.1	--	20
JULY										
25...	--	--	--	--	--	--	--	--	15.0	--
SEP.										
06...	--	--	--	--	--	--	--	--	13.0	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	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)	PER-CENT SATUR-ATION
OCT.												
27...	1530	--	84	0	69	90	21	170	7.0	5.5	9.7	102
JAN.												
05...	0900	--	80	0	66	--	--	175	7.4	.0	11.2	101
MAR.												
01...	0700	--	72	0	59	72	13	150	7.4	--	11.0	--
MAY												
01...	1845	--	42	0	34	46	12	88	7.1	7.0	8.7	95
JUNE												
21...	0745	E20	41	0	34	45	11	95	6.2	--	9.5	--
JULY												
25...	1715	--	68	0	56	74	18	150	6.8	15.0	7.9	103
SEP.												
06...	1100	--	64	0	52	62	9	125	8.2	13.0	8.6	108

E Estimated.

11208620 EAST FORK KAWEAH RIVER BELOW MOSQUITO CREEK, NEAR HAMMOND, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	5.0	4.5	3.5	1.5	1.0	1.0	0.5	1.0	1.0	6.0	4.0
2	7.5	6.0	5.5	4.0	1.0	1.0	1.0	0.0	1.0	1.0	6.5	5.0
3	8.0	6.5	5.5	4.5	1.0	1.0	1.0	0.0	1.5	1.0	7.0	5.5
4	8.5	7.0	5.5	5.0	1.0	0.5	1.0	0.0	2.0	1.5	7.0	6.0
5	9.0	7.5	5.5	4.5	1.5	0.5	1.0	0.0	1.5	1.5	7.0	6.0
6	9.5	7.5	5.5	4.5	1.5	1.0	1.0	1.0	2.0	1.5	7.0	6.0
7	9.5	8.0	5.0	4.0	1.5	0.5	1.5	1.0	2.0	1.5	7.0	6.0
8	9.5	8.0	5.0	4.0	1.0	0.5	1.0	1.0	2.0	1.5	7.0	5.5
9	10.0	8.5	5.0	4.0	1.0	1.0	1.0	1.0	3.0	2.0	7.5	5.5
10	10.0	8.5	5.0	4.0	1.0	1.0	1.0	1.0	3.0	2.5	7.5	6.0
11	10.0	8.5	5.5	4.0	1.0	0.5	1.0	0.5	3.0	2.0	7.5	6.0
12	10.5	8.5	5.5	4.0	1.0	0.5	1.5	1.0	2.5	2.0	7.5	6.5
13	10.5	8.5	4.0	3.5	0.5	0.0	1.5	1.0	2.5	2.0	7.5	6.5
14	10.0	8.0	3.5	1.5	0.5	0.0	1.0	1.0	3.0	2.0	7.5	6.5
15	9.5	7.0	2.5	1.5	0.5	0.0	1.0	1.0	3.0	2.0	8.0	6.5
16	7.0	5.5	2.0	1.5	0.5	0.0	1.0	1.0	3.0	2.5	8.0	5.5
17	5.5	4.5	2.5	1.5	0.5	0.5	1.0	1.0	3.5	2.5	8.0	6.5
18	5.5	4.0	2.5	2.0	1.0	0.5	1.0	1.0	4.0	3.0	8.0	7.0
19	7.0	5.0	2.5	1.5	1.0	1.0	2.0	1.5	4.0	3.5	8.0	6.5
20	7.0	6.0	2.5	2.0	1.0	1.0	2.0	2.0	4.0	3.0	8.0	6.5
21	7.5	6.0	3.0	2.5	1.5	1.0	2.0	2.0	4.0	3.5	8.5	6.5
22	7.5	6.5	3.0	2.5	1.5	1.0	2.0	1.5	4.5	3.5	8.0	7.0
23	7.0	6.5	3.0	2.5	1.5	1.0	2.0	1.5	4.5	3.0	8.0	6.5
24	7.0	6.0	2.5	2.0	1.0	1.0	1.5	1.0	4.5	3.5	8.5	6.5
25	6.0	4.5	2.5	2.0	1.0	1.0	1.5	1.5	5.0	4.0	8.5	7.0
26	6.0	5.0	3.0	2.0	1.0	0.5	1.5	1.0	5.0	4.0	8.0	7.0
27	6.0	5.5	3.0	2.5	0.5	0.5	1.5	1.0	5.0	4.0	7.0	5.5
28	6.0	4.5	3.0	2.5	0.5	0.5	1.5	1.0	5.0	4.0	6.5	5.0
29	4.5	2.5	3.0	2.0	0.5	0.0	1.5	1.0	5.0	4.5	7.0	5.0
30	4.0	2.5	2.0	1.5	0.0	0.0	1.5	1.0	---	---	7.5	5.0
31	4.5	3.5	---	---	0.5	0.0	1.0	1.0	---	---	8.0	6.0
MONTH	10.5	2.5	5.5	1.5	1.5	0.0	2.0	0.0	5.0	1.0	8.5	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	10.0	7.0	11.5	11.0	18.0	13.0	18.0	12.0	14.0	10.0
2	9.5	7.0	10.0	7.5	12.0	11.0	18.5	13.5	17.5	11.0	13.0	9.5
3	9.5	8.0	9.0	7.0	12.5	11.5	18.0	13.5	17.5	11.0	13.5	9.5
4	9.0	8.0	9.5	7.5	12.5	11.5	17.5	12.5	17.5	11.0	11.5	11.0
5	8.5	8.0	9.5	7.5	12.0	11.5	18.0	13.5	17.5	11.0	12.0	10.5
6	9.0	7.5	9.0	8.0	12.5	11.5	18.0	13.0	15.5	12.0	14.0	10.0
7	9.5	7.5	9.0	6.5	12.5	12.0	18.0	13.0	15.5	12.0	13.5	10.5
8	9.5	7.0	9.0	6.5	12.5	12.0	16.5	13.5	17.5	11.5	12.5	11.0
9	9.0	8.0	8.0	6.5	13.0	12.0	18.0	12.5	17.5	12.0	14.0	10.5
10	8.5	8.0	9.5	6.5	13.0	11.5	18.5	13.0	17.0	12.0	13.5	10.0
11	8.5	6.5	9.5	7.0	14.5	11.5	18.5	13.5	15.0	12.0	13.0	9.5
12	6.5	5.5	9.5	7.0	14.5	12.0	19.5	14.0	15.0	11.5	12.5	8.0
13	6.0	5.0	9.5	7.0	15.0	12.5	17.5	14.5	16.5	11.0	12.5	8.0
14	8.0	4.5	10.0	7.5	16.0	13.0	18.0	11.0	16.0	11.0	12.0	8.5
15	9.5	6.5	9.5	7.5	15.5	13.5	18.0	11.5	15.0	9.0	12.5	8.5
16	9.5	8.0	8.5	7.0	16.0	12.0	17.0	11.5	15.0	9.5	12.5	9.0
17	9.5	8.0	7.5	6.5	16.0	12.0	18.0	11.5	15.5	9.5	12.5	8.0
18	9.0	7.0	8.0	7.0	16.0	11.5	18.0	11.5	14.0	10.0	11.5	9.0
19	7.5	6.5	8.0	6.5	16.5	12.0	18.0	11.5	14.5	9.5	11.5	9.0
20	9.0	6.0	6.5	5.5	15.5	11.5	16.5	10.0	15.0	9.0	12.0	8.0
21	9.5	7.5	7.5	5.5	16.0	12.0	16.0	9.0	15.5	9.0	11.5	8.0
22	10.0	7.0	9.0	6.5	16.0	12.0	17.0	10.0	16.0	10.0	11.5	7.5
23	10.0	7.0	11.0	7.5	16.0	11.5	17.0	10.0	16.0	10.5	11.5	7.5
24	9.0	8.0	11.0	8.0	15.0	11.0	16.5	9.0	16.0	10.5	11.0	8.0
25	10.5	7.0	11.0	8.5	16.0	10.5	16.0	9.0	15.0	10.0	10.5	7.0
26	11.0	7.5	12.0	9.0	16.5	11.5	16.0	9.0	14.0	10.0	10.5	7.0
27	10.5	7.5	12.0	9.5	17.0	12.0	17.0	10.0	12.0	10.5	11.0	8.0
28	10.5	7.0	11.5	9.5	17.5	12.5	17.5	10.0	12.0	11.0	11.5	8.0
29	10.0	7.0	11.5	10.0	18.0	13.0	13.5	11.5	12.5	10.0	11.0	8.5
30	10.0	7.0	12.0	10.0	18.0	13.0	15.5	12.5	11.0	10.0	11.0	9.0
31	---	---	12.0	10.5	---	---	18.0	12.0	12.0	10.5	---	---
MONTH	11.0	4.5	12.0	5.5	18.0	10.5	19.5	9.0	18.0	9.0	14.0	7.0

11208730 EAST FORK KAWEAH RIVER NEAR THREE RIVERS, CALIF.

LOCATION.--Lat 36°27'05", long 118°47'15", in NW¼ sec.14, T.17 S., R.29 E., Tulare County, at gaging station on left bank just downstream from diversion dam, and 6.6 miles east of Three Rivers.

DRAINAGE AREA.--85.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1968 to September 1971.
Water temperatures: June 1968 to September 1972.
Sediment records: Water years 1968-71 (partial-record station).

EXTREMES, 1971-72:
Water temperatures: Maximum, 22.0°C on several days during July and August; minimum, 1.0°C Feb. 3.

Period of record:
Water temperatures: Maximum, 22.0°C on several days in 1972; minimum, 0.5°C in several days in 1970 and 1971.

REMARKS.--Records furnished by Southern California Edison Company.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.5	4.5	4.5	6.0	5.0	2.0	2.0	1.5	1.5	8.0	6.5
2	10.5	10.5	4.5	4.5	5.0	4.5	2.0	2.0	1.5	1.5	6.5	6.0
3	11.0	10.5	5.0	4.5	4.5	4.0	2.0	2.0	1.5	1.0	8.5	6.5
4	11.5	11.0	5.5	5.0	4.0	3.5	2.0	1.5	3.0	1.5	9.0	8.0
5	12.0	11.5	6.0	5.5	3.5	3.5	1.5	1.5	3.5	3.0	9.0	8.0
6	13.0	12.0	6.5	6.0	3.5	3.5	2.0	1.5	4.0	3.5	10.0	8.0
7	13.5	13.0	6.5	6.5	3.5	3.5	2.0	1.5	4.0	4.0	10.0	8.0
8	13.5	13.5	6.5	6.5	3.5	2.0	2.0	1.5	4.0	4.0	9.5	8.0
9	14.0	13.5	6.5	6.5	2.0	1.5	2.0	1.5	4.0	4.0	9.0	8.0
10	14.0	14.0	6.5	6.5	1.5	1.5	1.5	1.5	4.0	4.0	9.5	8.0
11	14.5	14.0	8.0	6.5	2.0	1.5	1.5	1.5	4.0	4.0	9.5	8.5
12	14.0	14.0	9.0	8.0	2.0	2.0	1.5	1.5	4.0	4.0	9.5	8.5
13	14.0	13.5	8.0	6.5	2.0	2.0	1.5	1.5	4.0	4.0	9.5	9.0
14	14.0	13.5	6.5	6.5	2.0	2.0	2.0	1.5	4.5	4.0	9.5	8.5
15	14.0	13.5	6.5	5.5	2.0	2.0	3.0	2.0	5.0	4.5	9.5	8.5
16	13.5	11.0	5.5	5.0	2.0	2.0	3.0	3.0	5.0	5.0	9.5	8.5
17	11.0	9.5	5.0	4.0	2.0	2.0	3.0	3.0	5.0	4.5	10.0	8.5
18	9.5	8.5	4.0	4.0	2.0	2.0	3.0	3.0	5.5	4.5	10.0	9.0
19	9.0	8.0	4.0	4.0	2.0	2.0	3.5	3.0	6.0	5.5	10.0	8.5
20	8.5	8.0	4.0	4.0	2.0	2.0	3.5	3.5	6.0	5.0	9.5	8.0
21	8.5	8.0	4.0	4.0	2.0	2.0	3.5	3.5	6.0	5.5	9.5	8.0
22	8.5	8.5	4.5	4.0	4.5	2.0	3.5	3.5	6.5	6.0	9.5	8.0
23	8.5	8.5	4.5	4.5	4.5	4.5	3.5	3.5	6.5	6.0	8.5	7.0
24	8.5	8.5	4.5	4.5	5.0	4.5	3.5	3.0	6.0	5.5	8.5	6.5
25	8.5	8.0	4.5	4.5	5.0	4.5	3.0	2.0	6.0	5.5	9.0	7.0
26	8.5	8.0	4.5	4.5	4.5	3.0	2.0	2.0	6.5	6.0	9.0	6.5
27	8.0	8.0	4.5	4.5	3.0	3.0	2.0	1.5	6.5	6.0	6.5	4.5
28	8.5	8.0	5.5	4.5	3.0	2.0	2.0	1.5	6.5	6.0	5.5	3.5
29	8.0	5.5	6.0	5.5	2.0	2.0	3.5	2.0	8.0	6.5	5.5	4.0
30	5.5	4.5	6.0	6.0	2.0	2.0	3.5	2.0	---	---	6.5	4.5
31	4.5	4.5	---	---	2.0	2.0	2.0	1.5	---	---	8.0	5.5
MONTH	14.5	4.5	9.0	4.0	6.0	1.5	3.5	1.5	8.0	1.0	10.0	3.5

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

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 mile downstream from North Fork Kaweah River.

DRAINAGE AREA.--418 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1963 to July 1966.
Water temperatures.--October 1965 to December 1966, January 1968 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 30.0°C July 14, 15; minimum, 1.5°C Jan. 5, 6, Feb. 2.

Period of record:
Water temperatures: Maximum, 30.0°C July 14, 15, 1972; minimum, 0.5°C Jan. 7, 1971.

REMARKS.--Clock stopped Jan. 31 to Feb. 1; range in temperature, 2.5°C to 7.5°C.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	13.0	11.0	6.0	10.0	7.0	6.5	3.0	7.0	---	12.5	7.5
2	19.5	13.5	12.0	6.5	7.5	6.5	6.0	4.0	6.5	2.5	13.0	7.5
3	20.0	13.5	12.0	7.0	7.0	6.0	5.0	3.0	7.0	1.5	13.0	9.0
4	20.5	14.0	12.0	7.0	7.0	6.0	5.5	2.0	6.0	2.5	14.5	10.0
5	21.5	14.5	12.5	8.0	8.5	5.5	5.5	1.5	6.5	5.0	15.0	10.0
6	22.0	15.5	12.5	7.5	6.5	4.5	6.0	1.5	8.0	5.0	15.0	10.0
7	22.5	16.0	12.0	7.5	6.5	4.5	7.0	2.5	10.0	5.5	15.0	10.5
8	22.5	16.5	12.0	7.5	6.5	3.0	6.0	3.0	8.5	5.5	15.5	10.0
9	23.0	17.0	12.5	9.0	6.0	2.0	6.0	2.5	9.0	5.5	14.5	9.5
10	23.0	17.5	12.0	8.0	6.0	4.5	4.0	3.0	10.5	5.0	15.0	10.0
11	22.5	17.5	11.5	10.0	8.0	4.0	4.5	3.0	10.5	5.0	15.0	10.5
12	22.0	17.0	11.5	10.0	5.0	4.0	4.5	4.0	10.5	5.5	14.0	10.5
13	22.5	16.5	10.0	8.5	6.0	5.0	5.5	3.5	10.5	5.5	14.0	11.0
14	21.5	16.5	9.0	8.0	7.5	4.5	6.5	4.0	9.0	6.0	15.0	10.0
15	19.5	14.5	9.0	6.5	7.0	5.0	8.0	3.0	10.5	7.5	15.5	10.0
16	15.0	11.5	9.0	5.0	7.5	4.0	8.0	3.5	11.5	6.5	16.0	10.0
17	16.0	11.5	9.5	4.5	7.0	3.0	8.0	3.5	11.5	6.5	16.0	10.5
18	16.0	10.5	9.0	6.0	6.5	3.5	8.0	3.5	12.0	7.0	16.0	11.0
19	16.0	10.5	9.5	5.0	7.5	3.5	8.0	4.0	13.0	8.0	15.5	10.5
20	14.5	10.5	9.0	5.0	7.0	3.0	7.0	5.0	12.0	7.0	15.0	10.0
21	15.5	10.0	10.0	5.5	6.0	3.0	7.5	5.0	12.0	7.5	15.0	10.0
22	15.5	10.5	10.0	6.0	8.0	6.0	8.0	4.0	14.0	8.5	13.5	10.0
23	13.0	11.0	10.0	5.5	8.5	7.0	6.5	4.5	12.0	8.0	14.0	9.0
24	13.5	10.5	10.0	6.0	8.5	7.5	8.5	4.5	12.0	7.0	14.0	8.0
25	14.5	9.5	9.5	6.0	7.5	6.0	8.0	4.5	12.0	7.0	14.5	8.5
26	14.5	9.5	10.0	6.0	8.0	6.0	6.0	4.0	12.5	7.5	13.0	8.5
27	14.5	10.0	10.5	7.5	6.5	6.0	4.5	3.5	13.5	7.5	12.0	6.0
28	12.5	7.0	10.5	9.5	7.0	4.0	7.5	3.5	12.5	8.0	12.0	5.5
29	10.5	6.0	11.0	8.5	7.0	4.0	7.0	5.5	13.0	9.0	12.0	5.5
30	10.5	5.0	11.5	8.5	6.0	4.5	8.0	4.0	---	---	13.0	6.0
31	10.5	6.0	---	---	7.0	3.5	7.5	---	---	---	13.5	7.5
MONTH	23.0	5.0	12.5	4.5	10.0	2.0	8.5	1.5	14.0	1.5	16.0	5.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	9.5	15.5	10.0	21.5	16.5	28.0	21.5	27.5	21.0	27.0	20.5
2	16.0	9.5	16.0	10.5	21.5	16.5	27.5	21.5	27.5	20.5	26.0	20.0
3	16.5	11.0	15.0	11.5	20.5	16.0	27.5	21.0	27.5	20.5	25.0	19.5
4	14.0	11.0	14.5	11.5	21.0	16.0	27.0	21.0	28.0	21.0	23.5	21.5
5	12.0	10.5	15.5	10.5	20.5	15.5	27.0	21.0	28.0	21.0	23.5	21.0
6	15.5	9.5	14.5	11.5	19.0	16.0	27.0	19.5	27.0	22.0	24.0	18.5
7	16.0	10.0	15.5	10.5	18.0	15.0	26.0	20.0	27.5	22.0	24.5	19.0
8	15.5	9.5	14.0	10.0	20.5	15.5	26.0	20.0	29.0	22.0	24.5	19.5
9	14.5	9.5	14.0	9.5	17.0	14.0	26.0	19.0	29.5	23.0	24.0	19.0
10	15.0	10.0	16.0	9.5	15.5	13.5	26.5	19.5	29.5	23.5	23.5	18.5
11	11.5	9.5	17.5	11.0	18.0	11.5	27.0	20.0	29.5	23.5	23.5	17.5
12	13.0	8.0	18.0	12.0	20.0	13.0	28.5	21.0	28.0	22.5	22.0	16.0
13	11.5	7.5	18.0	12.5	21.0	14.5	29.0	22.0	27.0	21.5	22.0	16.0
14	12.5	5.5	18.5	13.0	22.0	15.5	30.0	22.5	25.5	20.0	22.0	16.5
15	14.5	7.0	18.5	13.5	22.5	16.0	30.0	23.0	25.0	18.5	22.5	16.5
16	15.5	8.5	17.5	13.0	23.0	16.5	29.5	23.5	24.5	18.0	23.0	16.5
17	15.5	8.5	15.0	12.0	23.0	17.0	29.5	23.0	25.0	17.5	23.0	16.5
18	13.5	9.0	15.5	11.0	24.0	17.0	28.5	22.5	26.0	19.0	22.0	17.0
19	13.5	7.5	11.5	9.0	24.0	17.5	28.0	22.0	25.5	20.0	22.5	17.0
20	14.0	6.5	13.0	8.0	23.5	18.0	26.0	21.0	26.0	19.5	22.0	16.0
21	15.0	7.5	13.5	8.5	24.0	18.0	26.0	20.0	26.5	20.0	22.5	16.0
22	15.5	8.5	16.5	9.5	23.5	18.0	27.0	20.0	27.0	20.5	22.5	16.5
23	15.5	9.5	18.5	11.5	22.5	17.5	28.0	20.5	27.0	20.5	22.0	16.5
24	14.0	9.5	18.5	12.5	22.5	17.0	27.0	19.5	26.5	21.0	21.5	16.5
25	14.5	8.5	18.0	12.5	23.5	17.0	27.0	20.0	26.5	20.0	20.5	14.5
26	15.5	9.0	18.5	13.0	24.0	17.0	27.0	20.0	27.0	20.5	20.5	15.0
27	16.0	10.0	19.5	14.0	24.5	18.0	27.0	20.0	25.5	21.5	22.0	15.5
28	15.0	10.0	20.0	14.5	26.0	19.0	28.0	20.5	25.0	21.5	22.5	17.0
29	14.0	9.5	20.5	15.0	26.5	20.0	25.5	22.0	27.0	21.0	21.0	18.0
30	14.5	9.0	21.0	15.5	27.5	20.5	27.0	22.0	24.5	21.5	22.5	17.5
31	---	---	21.5	16.5	---	---	28.5	22.5	25.0	21.0	---	---
MONTH	16.5	5.5	21.5	8.0	27.5	11.5	30.0	19.0	29.5	17.5	27.0	14.5

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 mile downstream from Terminus Dam, and 2.2 miles northeast of Lemoncove.

DRAINAGE AREA.--561 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1961 to September 1969, water years 1970-72 (partial-record station).
Water temperatures: November 1970 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 28.5°C Aug. 29, Sept. 1; minimum, 5.5°C Jan. 15.

Period of record:
Water temperatures: Maximum, 28.5°C Aug. 29, Sept. 1, 1972; minimum, 5.0°C Jan. 9, 10, 1971.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Recorder malfunction Sept. 28-30.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
JUNE								
27...	1100	756	6.0	.9	2.0	25	0	21

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
JUNE							
27...	.1	.00	19	0	.2	50	7.1

FIELD DETERMINATIONS OF WATER QUALITY DATA, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)
JUNE				
27...	1100	756	44	7.6

11210950 KAWEAH RIVER BELOW TERMINUS DAM, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	22.5	18.5	16.0	11.5	12.5	8.5	7.5	7.0	7.5	6.0	14.0	13.0
2	22.5	18.0	16.0	11.5	10.0	9.0	7.5	7.0	7.5	6.5	14.0	13.0
3	22.5	18.0	16.0	12.0	9.5	8.0	7.0	6.5	8.0	6.5	14.0	13.5
4	22.5	18.0	16.0	12.0	9.5	8.5	7.5	6.5	7.5	6.5	14.5	13.5
5	22.5	17.5	15.5	12.5	11.5	8.0	7.0	6.0	7.5	7.0	14.5	13.5
6	22.5	18.0	15.5	12.0	10.0	8.0	7.0	6.0	8.0	7.0	15.0	14.0
7	22.0	18.0	15.5	12.0	9.5	8.0	7.0	6.0	8.0	7.0	15.0	14.5
8	22.0	18.0	15.0	12.0	10.0	6.5	6.5	6.0	8.0	7.5	15.5	15.0
9	22.0	18.5	14.5	12.5	9.5	6.5	7.0	6.0	8.0	7.5	15.5	15.0
10	22.0	18.5	15.0	11.5	9.0	8.0	6.5	6.0	9.0	7.0	16.0	15.0
11	22.0	18.5	13.5	12.5	9.5	8.5	6.5	6.0	9.5	7.5	16.0	15.5
12	22.0	18.0	14.5	13.0	9.0	8.5	6.0	6.0	10.0	8.0	16.0	15.5
13	22.0	18.0	13.5	11.5	8.5	8.5	6.0	6.0	10.0	8.5	16.5	16.0
14	21.5	18.0	13.0	12.0	9.0	8.0	6.5	6.0	9.5	8.5	16.5	16.0
15	20.0	18.0	13.5	11.0	8.5	8.0	7.0	5.5	9.5	9.0	17.0	16.0
16	19.5	17.5	13.5	10.0	9.0	8.0	6.5	6.0	10.0	9.0	17.0	16.0
17	20.5	17.0	13.5	9.5	8.5	8.0	7.0	6.0	10.5	9.5	17.0	16.0
18	20.5	16.0	13.0	10.0	8.5	8.0	7.0	6.0	10.0	9.5	17.0	16.0
19	20.5	15.5	13.0	8.5	8.5	7.5	6.5	6.0	10.5	10.0	16.5	15.5
20	18.5	15.0	13.0	9.0	8.5	7.5	6.5	6.0	11.0	10.0	16.5	16.0
21	19.5	14.5	13.5	9.0	8.0	7.5	7.0	6.5	11.0	10.0	16.5	16.0
22	19.0	15.0	13.0	9.0	8.5	8.0	7.0	6.0	11.5	10.5	16.5	15.5
23	17.0	15.0	13.0	8.5	8.5	8.0	7.0	6.5	12.0	11.0	16.5	15.5
24	17.5	15.5	12.5	8.5	8.5	8.0	7.5	6.5	12.0	11.0	17.0	15.0
25	18.5	14.0	12.5	9.0	8.5	8.0	8.0	6.5	12.5	11.5	17.0	15.0
26	18.0	13.5	12.0	9.0	8.5	8.0	7.0	6.5	12.5	12.0	17.0	14.5
27	17.5	14.0	12.0	9.5	8.0	8.0	6.5	6.5	12.5	12.0	17.0	14.0
28	16.5	13.5	12.0	10.5	8.0	7.5	7.5	6.5	13.0	12.5	17.0	13.5
29	16.5	12.5	12.5	10.0	8.5	7.0	7.0	6.5	13.5	12.5	16.5	13.5
30	16.5	11.5	11.5	9.5	7.5	7.0	7.0	6.5	---	---	16.5	13.5
31	16.0	12.0	---	---	8.0	7.0	7.5	6.0	---	---	16.0	13.5
MONTH	22.5	11.5	16.0	8.5	12.5	6.5	8.0	5.5	13.5	6.0	17.0	13.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	14.0	16.5	15.0	17.0	15.5	22.0	21.0	27.5	25.5	28.5	23.5
2	17.0	14.0	17.0	15.0	17.5	15.5	22.0	21.0	27.5	25.0	27.5	23.5
3	16.5	14.0	16.0	14.5	17.5	15.5	22.0	21.5	27.5	25.0	27.0	23.5
4	16.0	14.0	16.0	14.5	17.5	15.5	22.5	21.5	27.5	25.5	25.5	24.0
5	14.5	14.0	16.5	14.5	16.5	15.5	23.0	22.0	27.5	25.5	25.5	24.0
6	17.0	14.0	16.5	14.5	16.5	16.0	22.5	22.0	27.0	25.5	28.0	22.5
7	17.0	14.0	16.5	14.5	16.5	16.0	22.5	22.0	27.0	25.5	27.0	22.5
8	17.0	13.5	16.5	14.5	17.0	16.0	23.0	22.5	27.5	25.5	27.0	23.5
9	17.0	14.0	16.5	14.5	16.5	16.0	23.5	22.5	27.5	25.5	26.5	23.5
10	16.5	14.0	17.0	14.5	16.5	16.0	23.5	22.5	27.5	26.0	26.5	23.0
11	15.0	14.0	17.0	14.5	17.0	16.0	24.0	22.5	28.0	26.0	26.0	22.5
12	17.0	14.0	17.0	14.5	17.5	16.5	24.0	23.0	27.5	25.0	25.5	21.5
13	16.0	14.0	17.0	14.5	17.5	16.5	24.5	23.0	27.5	25.0	25.5	21.0
14	17.0	13.0	17.0	15.0	17.5	16.5	25.0	23.5	28.0	24.5	25.0	21.0
15	17.5	14.0	16.5	15.0	18.0	17.0	25.0	23.5	27.5	24.0	25.5	21.0
16	17.0	14.0	16.5	15.0	18.0	17.0	25.0	24.0	27.5	24.0	25.5	21.0
17	16.5	14.0	16.0	15.0	18.0	17.5	25.0	24.0	27.5	23.5	25.0	21.5
18	17.0	14.0	16.5	15.0	18.5	17.5	25.5	24.0	27.5	24.0	24.5	21.5
19	17.0	14.0	15.5	15.0	18.5	18.0	25.5	24.0	27.0	24.0	24.5	21.5
20	17.5	13.5	16.5	14.5	19.0	18.0	25.5	24.5	27.5	24.0	25.0	21.0
21	17.5	14.0	16.5	15.0	19.0	18.5	25.5	24.5	27.5	24.0	25.0	20.5
22	17.5	14.0	17.0	15.0	19.0	18.5	26.0	24.5	27.5	24.0	24.5	20.5
23	17.5	14.5	17.0	15.0	19.5	18.5	26.0	25.0	27.5	24.0	24.0	21.0
24	17.0	14.5	17.0	15.0	19.5	19.0	26.5	25.0	27.0	24.0	23.5	20.5
25	16.5	14.5	17.0	15.0	19.5	19.0	26.5	25.0	27.5	23.5	23.5	19.5
26	17.0	15.0	17.0	15.0	20.0	19.5	26.5	25.5	27.5	23.0	23.5	19.0
27	16.5	15.0	17.0	15.0	20.5	19.5	27.0	25.5	26.5	23.5	24.0	19.5
28	16.5	15.0	17.0	15.0	21.0	20.0	27.0	25.0	27.5	24.0	---	---
29	16.5	15.0	17.0	15.5	21.0	20.5	26.0	25.5	28.5	23.5	---	---
30	16.5	15.0	17.5	15.5	21.5	20.5	27.0	25.5	27.5	23.5	---	---
31	---	---	17.5	15.5	---	---	27.5	25.5	27.0	24.0	---	---
MONTH	17.5	13.0	17.5	14.5	21.5	15.5	27.5	21.0	28.5	23.0	28.5	19.0

11213500 KINGS RIVER ABOVE NORTH FORK, NEAR TRIMMER, CALIF.

LOCATION.--Lat 36°51'48", long 119°07'24", in NE¼ sec.27, T.12 S., R.26 E., Fresno County, temperature recorder at gaging station on right bank at Rogers Crossing, 0.9 mile upstream from North Fork, 2.9 miles south of Balch Camp, and 9.6 miles southeast of Trimmer.

DRAINAGE AREA.--952 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1955.
Water temperatures: December 1965 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 27.0°C Aug. 9-11; minimum, 2.5°C Feb. 3.

Period of record:
Water temperatures: Maximum (1967-72), 27.0°C Aug. 9-11, 1972; minimum, freezing point Dec. 14, 15, 1967.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	13.0	8.5	7.0	10.5	8.0	4.5	3.0	5.0	3.0	11.0	8.5
2	16.0	13.0	9.0	7.5	8.5	7.5	5.5	4.0	4.5	3.0	11.0	8.5
3	16.0	13.0	9.5	8.5	7.5	7.5	5.5	4.5	4.5	2.5	12.0	9.0
4	16.5	13.5	10.0	8.0	7.5	7.0	4.5	3.5	5.5	3.5	12.5	10.0
5	17.0	14.5	10.0	8.5	8.0	7.0	4.0	3.0	6.5	5.5	12.5	10.0
6	17.5	15.0	10.5	8.5	7.0	6.0	5.0	3.0	8.0	6.0	12.5	10.0
7	17.5	15.0	10.5	9.0	7.5	5.5	5.5	4.0	8.0	6.5	12.5	10.0
8	17.5	15.5	10.0	9.0	5.5	4.5	5.5	4.0	7.5	6.0	12.0	10.0
9	18.0	16.0	10.5	9.0	5.5	4.0	4.5	3.5	8.0	6.5	12.0	10.0
10	18.5	16.5	10.5	9.0	6.5	5.5	4.5	3.0	8.0	6.5	12.0	10.0
11	18.5	16.5	12.0	10.5	7.0	6.0	4.5	3.5	8.0	6.5	12.0	10.5
12	18.0	16.0	12.0	10.5	6.5	5.5	4.5	4.0	8.0	6.0	11.5	10.5
13	18.0	15.5	10.5	9.5	7.0	5.5	5.0	4.5	8.0	6.0	12.0	10.5
14	17.5	16.0	10.5	9.0	6.5	5.5	5.5	4.5	8.0	6.5	12.0	10.5
15	16.5	13.5	9.5	7.5	6.0	5.5	5.5	4.0	8.0	7.0	12.0	10.0
16	13.5	11.5	9.5	6.5	6.0	4.5	6.0	4.0	9.0	7.0	12.0	10.0
17	12.5	10.5	8.0	6.5	5.0	3.5	5.5	4.5	9.0	7.0	12.0	10.0
18	12.5	10.5	8.0	7.0	6.0	4.0	6.0	4.5	10.0	7.5	12.0	10.5
19	12.5	10.5	8.0	6.5	6.0	5.0	6.5	4.5	10.5	8.5	11.5	10.0
20	11.5	10.5	8.0	6.5	5.5	4.0	6.5	5.0	10.0	8.0	12.0	10.0
21	12.0	10.0	9.0	7.0	5.5	4.0	6.5	5.0	10.5	8.5	11.5	10.0
22	12.0	10.0	9.5	8.0	7.5	5.5	6.5	5.5	11.0	9.5	11.0	10.0
23	11.5	10.5	9.5	8.0	8.0	7.5	6.0	5.5	10.5	9.0	10.5	9.0
24	11.0	10.0	9.5	8.0	8.5	8.0	6.5	5.5	10.0	8.0	11.0	9.0
25	11.5	9.5	9.5	8.0	8.0	7.0	6.0	4.5	10.0	8.0	12.0	9.5
26	11.0	9.5	9.5	8.0	7.0	6.0	6.0	5.0	10.5	8.5	10.5	9.5
27	11.0	9.5	10.5	8.5	6.0	5.5	5.0	4.0	11.0	8.5	9.5	7.0
28	10.5	8.0	10.5	10.0	5.5	4.5	6.0	4.0	10.0	8.5	9.0	6.0
29	8.0	6.5	11.5	10.0	5.0	4.0	6.5	5.0	11.0	9.0	9.5	6.5
30	7.0	5.5	11.0	10.0	5.0	4.0	6.0	4.0	---	---	10.5	7.0
31	8.0	6.0	---	---	4.5	3.5	5.0	3.5	---	---	11.5	8.0
MONTH	18.5	5.5	12.0	6.5	10.5	3.5	6.5	3.0	11.0	2.5	12.5	6.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	9.5	12.0	10.0	16.5	14.5	21.0	18.5	25.0	22.0	23.5	20.0
2	13.5	10.0	12.5	10.5	16.0	14.5	21.5	19.0	24.5	21.5	22.5	20.0
3	14.0	11.5	12.5	11.0	16.5	14.5	22.0	19.0	24.5	21.0	22.5	19.0
4	12.5	11.0	12.5	11.5	16.5	15.0	22.0	19.0	25.0	21.0	22.0	20.5
5	11.0	10.5	13.5	11.0	16.5	14.5	22.0	19.0	25.0	21.0	21.0	17.0
6	13.5	10.0	12.5	12.0	16.0	15.5	22.0	19.0	25.0	22.0	18.0	16.0
7	13.5	10.5	13.0	11.5	15.5	14.5	22.0	18.5	26.0	22.5	19.0	17.0
8	13.0	10.5	12.0	11.0	15.5	14.5	21.0	18.5	26.5	23.0	20.0	17.5
9	12.0	10.0	12.0	11.0	16.0	14.5	22.0	18.5	27.0	23.5	19.5	17.0
10	12.0	10.5	13.0	11.0	16.0	14.5	22.5	18.5	27.0	24.0	19.5	17.0
11	11.0	9.5	13.5	11.5	16.0	14.0	23.0	19.0	27.0	24.0	18.5	16.5
12	10.5	8.5	13.5	11.5	16.5	14.5	24.0	20.0	26.0	23.0	18.0	15.0
13	10.0	7.5	14.0	12.0	17.0	15.5	24.5	21.0	25.0	21.5	18.0	15.0
14	10.5	6.5	14.0	12.5	17.5	15.5	25.0	21.5	23.5	20.0	18.0	15.5
15	12.0	8.0	13.5	12.0	18.0	16.0	25.5	22.0	22.5	19.0	18.5	16.0
16	13.0	10.0	13.5	12.0	18.5	16.5	25.5	22.0	22.0	18.5	19.0	16.0
17	13.0	10.0	13.0	11.5	18.5	16.5	24.5	21.5	22.0	18.5	19.0	16.5
18	11.5	8.0	13.5	12.0	18.5	16.5	25.0	21.0	23.0	19.0	19.0	17.0
19	9.5	7.5	12.0	10.0	19.0	17.0	25.0	21.5	23.0	20.5	19.0	17.0
20	11.0	7.5	11.0	10.0	19.0	17.5	24.0	22.0	23.5	19.5	19.0	16.5
21	12.5	8.5	12.5	10.0	19.5	17.0	23.5	20.0	23.5	20.0	19.0	16.5
22	13.5	10.0	14.5	11.5	19.0	17.5	24.0	20.0	24.0	20.5	19.0	16.5
23	13.0	10.5	15.5	13.0	18.5	16.5	24.5	21.0	24.0	20.5	19.0	16.5
24	13.0	11.0	15.0	13.5	18.5	16.5	24.0	20.5	24.0	21.0	18.5	16.5
25	13.0	10.5	15.5	13.5	19.0	16.5	24.5	20.5	24.0	20.5	17.5	15.0
26	13.0	10.5	15.5	13.5	19.0	16.5	24.5	20.5	24.0	21.0	17.0	15.0
27	13.0	11.0	16.0	14.0	19.5	16.5	24.5	20.5	23.5	21.5	16.5	15.5
28	12.5	10.5	16.0	14.5	20.0	17.5	25.0	21.0	22.0	21.0	18.0	15.0
29	12.0	10.0	16.5	14.5	20.5	18.0	24.5	22.0	23.0	19.5	17.5	16.0
30	12.0	10.0	16.5	14.0	21.0	18.0	24.0	21.5	22.5	21.0	17.0	15.5
31	---	---	16.5	14.5	---	---	26.0	22.5	22.5	20.5	---	---
MONTH	14.0	6.5	16.5	10.0	21.0	14.0	26.0	18.5	27.0	18.5	23.5	15.0

11216500 NORTH FORK KINGS RIVER ABOVE DINKEY CREEK, AT BALCH CAMP, CALIF.

LOCATION (revised).--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 downstream from bridge at Balch Camp, 300 ft upstream from Dinkey Creek, and 9.3 miles east of Trimmer.
DRAINAGE AREA.--250 sq mi.
PERIOD OF RECORD.--Water temperatures: September 1967 to September 1972.
EXTREMES, 1971-72:
Water temperatures: Maximum, 26.0°C July 14; minimum, 0.5°C Jan. 5.
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 Oct. 16-25, Nov. 9-23, Dec. 1-28, Aug. 21-25, Sept. 25-27; range in temperature, 9.5°C to 14.0°C, 7.0°C to 11.0°C, 3.5°C to 9.0°C, 14.5°C to 21.0°C, and 11.5°C to 16.0°C, respectively.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	10.5	10.5	7.5	---	---	4.0	1.5	5.5	2.0	8.5	6.0
2	14.5	10.5	11.0	8.0	---	---	4.5	2.0	5.0	1.5	9.0	6.5
3	15.0	10.5	11.0	8.0	---	---	4.0	2.5	5.5	1.5	11.5	7.0
4	15.0	11.0	11.0	8.0	---	---	3.5	1.0	5.0	2.0	14.0	8.5
5	15.5	11.5	11.0	8.5	---	---	3.0	0.5	5.5	4.5	15.0	9.0
6	16.0	12.0	11.0	8.5	---	---	3.5	1.0	8.0	4.5	16.0	10.0
7	16.0	12.0	11.0	8.0	---	---	4.5	1.5	9.0	5.0	15.5	10.0
8	16.5	12.5	10.0	8.0	---	---	4.0	1.5	7.5	5.0	16.0	10.5
9	17.0	13.0	---	---	---	---	4.0	1.5	9.0	5.5	15.5	10.0
10	17.0	13.5	---	---	---	---	3.5	1.5	9.0	4.5	15.0	10.5
11	17.0	14.0	---	---	---	---	3.5	2.0	9.0	5.0	15.5	10.5
12	16.5	13.5	---	---	---	---	3.5	2.5	9.0	4.5	13.0	10.5
13	17.0	13.5	---	---	---	---	4.0	3.0	8.5	4.5	14.0	10.0
14	16.5	13.5	---	---	---	---	5.0	2.5	8.0	5.0	15.5	10.0
15	14.5	12.5	---	---	---	---	5.0	2.0	9.0	5.5	16.0	10.0
16	---	---	---	---	---	---	5.5	2.0	9.5	5.0	16.0	10.0
17	---	---	---	---	---	---	5.0	2.0	9.0	5.0	16.0	10.5
18	---	---	---	---	---	---	5.0	2.5	10.0	6.0	16.0	11.0
19	---	---	---	---	---	---	5.5	3.0	11.0	7.0	16.0	10.0
20	---	---	---	---	---	---	5.5	3.0	10.5	6.0	16.0	10.5
21	---	---	---	---	---	---	5.0	3.0	10.5	7.0	16.0	10.0
22	---	---	---	---	---	---	5.5	2.5	12.0	8.0	13.0	10.5
23	---	---	---	---	---	---	5.0	3.5	11.5	7.5	14.0	9.0
24	---	---	9.0	6.5	---	---	5.5	2.5	11.5	7.0	14.5	8.5
25	---	---	9.0	7.0	---	---	5.5	3.0	11.0	7.0	15.5	9.5
26	13.0	9.5	8.5	6.5	---	---	5.0	3.5	12.0	7.5	14.0	10.0
27	13.0	10.5	9.5	7.0	---	---	4.0	3.0	12.0	8.0	11.5	7.0
28	11.5	9.0	9.0	8.0	---	---	6.0	3.0	8.0	6.5	11.5	5.5
29	10.0	7.0	9.0	8.0	5.0	3.0	6.5	4.0	9.0	7.0	12.0	6.0
30	10.0	7.5	9.5	7.5	4.5	2.5	6.5	3.0	---	---	12.5	6.0
31	10.0	7.5	---	---	4.0	2.0	6.0	2.0	---	---	12.0	7.0
MONTH	---	---	---	---	---	---	6.5	0.5	12.0	1.5	16.0	5.5

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

11218500 KINGS RIVER BELOW NORTH FORK, NEAR TRIMMER, CALIF.

LOCATION.--Lat 36°53'04", long 119°09'07", in NW¼ sec.16, T.12 S., R.26 E., Fresno County, on right bank 1 mile downstream from gaging station, 1.8 miles downstream from North Fork, 2.2 miles southwest of Balch Camp, and 7.7 miles southeast of Trimmer.
DRAINAGE AREA.--1,342 sq mi (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 year 1970 (partial-record station).
Water temperatures: October 1966 to September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 23.5°C July 16; minimum, freezing point on several days during December.
Period of record:
Water temperatures: Maximum, 24.0°C July 31, 1971; minimum, freezing point on several days in 1966, 1967, and 1972.
REMARKS.--Temperature subject to fluctuation because of powerplant operation upstream. Recorder malfunction Oct. 1-26, Nov. 15-22, Jan. 27, Feb. 13, 14, Aug. 11-15.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	9.5	3.0	7.5	3.0	5.0	0.5	5.0	1.5	12.5	7.5
2	---	---	8.5	2.5	3.5	2.0	5.5	1.0	5.0	1.5	12.5	7.5
3	---	---	9.0	4.5	3.0	2.0	5.0	1.5	5.5	1.0	12.0	8.5
4	---	---	9.5	3.5	3.5	2.5	5.0	1.0	5.0	2.0	13.0	8.5
5	---	---	12.5	4.5	5.5	1.5	5.0	1.0	4.5	3.5	13.5	9.0
6	---	---	9.0	2.0	2.0	1.0	5.0	1.0	7.0	3.5	14.0	9.5
7	---	---	7.5	2.5	4.5	0.5	5.5	2.0	8.5	4.0	13.0	10.0
8	---	---	8.0	1.0	4.0	0.0	5.5	1.5	6.5	4.0	12.5	9.0
9	---	---	9.0	4.5	3.5	0.0	5.0	1.5	8.0	4.0	12.5	8.0
10	---	---	9.0	2.5	3.0	0.0	2.5	1.0	8.5	3.5	12.0	9.0
11	---	---	12.0	8.5	5.0	0.5	3.0	2.0	9.0	4.0	14.0	9.0
12	---	---	8.5	6.0	1.5	0.5	2.5	2.0	10.0	4.0	12.0	10.0
13	---	---	6.0	5.0	5.0	0.0	4.0	2.0	---	---	13.0	9.5
14	---	---	9.5	3.5	5.0	1.0	6.0	2.0	---	---	14.0	9.0
15	---	---	---	---	4.0	1.0	7.0	1.5	8.0	3.5	15.0	9.0
16	---	---	---	---	4.5	0.0	7.0	2.0	8.0	3.5	13.0	9.5
17	---	---	---	---	4.0	0.0	7.0	2.0	8.0	4.0	14.0	9.5
18	---	---	---	---	5.0	0.0	6.5	2.0	10.0	4.5	14.5	9.5
19	---	---	---	---	4.0	0.0	6.0	2.5	12.0	7.0	14.0	9.0
20	---	---	---	---	3.5	0.0	6.5	3.0	11.5	6.5	13.5	9.5
21	---	---	---	---	2.0	0.0	6.0	2.5	10.0	6.0	14.0	10.0
22	---	---	---	---	3.0	1.5	6.5	3.0	13.0	7.0	11.5	9.0
23	---	---	8.0	3.0	3.5	2.5	4.5	3.0	12.5	8.0	12.0	8.0
24	---	---	7.5	2.5	3.5	2.5	6.5	2.5	12.0	7.0	12.5	7.5
25	---	---	6.5	2.5	3.0	2.5	5.0	2.5	12.0	7.0	14.0	8.5
26	---	---	5.5	3.0	4.0	1.5	4.0	2.5	13.0	8.0	13.0	8.5
27	13.0	7.0	7.0	3.0	1.5	1.0	---	---	14.0	8.0	11.5	6.0
28	10.5	6.5	5.5	4.5	4.0	0.0	6.0	2.0	12.0	8.0	11.5	5.0
29	10.0	4.0	8.0	4.0	5.5	1.5	6.5	3.5	12.5	8.5	11.5	5.5
30	9.5	4.0	8.0	4.0	4.5	1.0	7.0	2.5	---	---	12.5	6.0
31	10.0	4.0	---	---	5.0	1.0	6.0	2.0	---	---	13.0	7.5
MONTH	---	---	---	---	7.5	0.0	7.0	0.5	14.0	1.0	15.0	5.0

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

11221500 KINGS RIVER BELOW PINE FLAT DAM, CALIF.

LOCATION.--Lat 36°49'50", long 119°20'07", in NW¼ sec.2, T.13 S., R.24 E., Fresno County, temperature recorder at gaging station on right bank, 3,200 ft downstream from Pine Flat Dam, and 2.9 miles northeast of Piedra.

DRAINAGE AREA.--1,545 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1955 to July 1963, water years 1964-66 (partial-record station). Water temperatures: October 1969 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 23.0°C Sept. 5, 6; minimum, 7.5°C Dec. 30, Jan. 3.

Period of record:
Water temperatures: Maximum (1970-72), 23.0°C Sept. 5, 6, 1972; minimum, 7.0°C Dec. 23, 24, 26, 1970, Jan. 4, 1971.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.0	11.0	10.5	12.0	12.0	14.0	13.5	20.5	20.0	22.5	22.0
2	11.0	10.5	11.0	11.0	12.0	12.0	14.0	14.0	20.5	20.0	22.5	22.0
3	11.0	10.5	11.0	11.0	12.0	12.0	14.0	14.0	21.0	20.5	22.5	22.0
4	10.5	10.5	11.0	11.0	12.5	12.0	14.5	14.0	21.0	20.5	22.5	22.0
5	10.5	10.5	11.0	10.5	12.5	12.0	14.5	14.5	21.5	20.5	23.0	22.5
6	11.0	10.5	11.0	11.0	12.5	12.0	14.5	14.5	21.5	21.0	23.0	22.0
7	11.0	10.5	11.0	11.0	12.5	12.0	15.0	14.5	21.5	21.0	22.5	21.5
8	11.0	10.5	11.0	11.0	12.5	12.0	15.0	14.5	21.5	21.5	22.5	21.5
9	11.0	10.5	11.0	11.0	12.5	12.0	15.0	15.0	22.0	21.5	22.0	21.0
10	11.0	10.5	11.0	11.0	12.5	12.0	15.0	15.0	22.0	21.5	22.0	21.0
11	11.0	11.0	11.5	11.0	12.5	12.0	15.5	15.0	22.0	21.5	21.5	21.0
12	11.0	10.5	11.5	11.0	12.0	12.0	16.0	15.5	22.0	21.5	21.5	21.0
13	11.5	11.0	11.5	11.0	12.0	12.0	16.0	16.0	22.0	21.5	21.5	20.5
14	11.5	10.5	11.5	11.0	12.0	12.0	16.5	16.0	22.0	21.5	21.5	21.0
15	11.5	10.5	11.5	11.0	12.5	12.0	16.5	16.5	22.0	21.5	21.0	20.5
16	11.5	10.5	11.5	11.0	12.5	12.0	16.5	16.5	22.0	21.5	21.0	20.5
17	12.0	11.0	11.5	11.0	12.5	12.0	17.0	16.5	22.0	21.5	21.0	20.5
18	12.0	11.0	11.5	11.0	12.5	12.0	17.0	17.0	22.0	21.5	21.0	20.5
19	12.0	10.5	11.5	11.0	12.5	12.5	17.5	17.0	21.5	21.5	21.0	20.5
20	12.0	11.0	11.5	10.5	12.5	12.5	17.5	17.5	22.0	21.5	21.0	20.5
21	12.0	11.0	11.5	11.0	13.0	12.5	18.0	17.5	22.0	21.5	20.5	19.0
22	12.0	11.0	11.5	11.5	13.0	12.5	18.0	17.5	22.0	21.5	21.0	20.5
23	12.5	11.0	11.5	11.5	13.0	12.5	18.0	18.0	22.0	21.5	21.0	20.0
24	12.0	11.0	11.5	11.0	13.0	13.0	19.0	18.0	22.0	21.5	21.0	20.0
25	12.5	11.0	11.5	11.0	13.0	13.0	19.0	18.5	22.0	21.5	20.5	20.0
26	12.0	11.0	11.5	11.5	13.0	13.0	19.5	18.5	22.0	22.0	20.5	20.0
27	11.5	11.0	12.0	11.5	13.5	13.0	19.5	19.0	22.0	22.0	20.5	20.0
28	11.5	11.0	12.0	11.5	13.5	13.0	19.5	19.0	22.5	22.0	20.5	20.0
29	11.5	11.0	12.0	11.5	13.5	13.5	19.5	19.5	22.5	22.0	20.5	20.0
30	11.0	10.5	12.0	12.0	14.0	13.5	20.0	19.5	22.5	22.0	20.0	20.0
31	---	---	12.0	12.0	---	---	20.0	19.5	22.5	22.0	---	---
MONTH	12.5	10.0	12.0	10.5	14.0	12.0	20.0	13.5	22.5	20.0	23.0	19.0

11246500 WILLOW CREEK AT MOUTH, NEAR AUBERRY, CALIF.

LOCATION.--Lat 37°09'03", long 119°27'34", in SE¼NE¼ sec.16, T.9 S., R.23 E., Madera County, Sierra National Forest, temperature recorder at gaging station on left bank, 40 ft upstream from bridge, 0.4 mile upstream from mouth, 1.3 miles downstream from Whiskey Creek, and 4.3 miles northeast of Auberry.

DRAINAGE AREA.--130 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1960 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 31.0°C July 15; minimum, 1.5°C Jan. 4, 5.

Period of record:
Water temperatures: Maximum (1960-63, 1964-68, 1969-72), 33.0°C Aug. 5, 1966; minimum (1960-69, 1970-72), 1.0°C Jan. 6, 7, 1971.

REMARKS.--No flow Aug. 8 to Sept. 4.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	13.0	9.5	8.0	8.5	6.5	4.0	3.0	5.0	3.5	10.0	8.5
2	16.0	13.5	9.5	8.0	8.0	7.0	4.0	3.0	4.5	3.5	10.5	9.0
3	16.5	13.5	9.5	8.0	7.0	5.5	4.0	3.5	5.0	3.5	10.5	10.0
4	17.0	13.5	10.0	8.5	6.0	6.0	3.5	1.5	5.5	4.5	11.5	10.0
5	18.0	14.0	10.5	9.0	6.0	5.5	3.0	1.5	6.0	5.5	11.5	10.5
6	19.0	15.0	10.5	9.0	6.0	5.5	3.5	2.0	7.0	6.0	12.0	10.5
7	19.5	15.5	10.0	9.0	6.0	4.5	3.5	3.0	7.0	6.5	12.0	11.0
8	19.5	15.5	9.5	9.0	4.5	3.5	4.0	3.0	8.0	6.5	13.0	11.0
9	20.0	16.0	11.0	9.5	4.0	2.0	4.0	3.0	8.0	6.5	12.0	11.0
10	20.0	16.5	10.5	9.5	4.0	3.0	4.0	3.0	8.5	6.0	13.0	11.5
11	20.0	16.5	11.5	10.5	4.0	3.5	4.0	3.5	8.5	6.5	14.0	12.0
12	20.0	16.5	11.5	10.5	4.0	3.5	4.0	3.5	8.5	6.5	14.0	11.0
13	20.0	16.0	10.5	9.5	4.0	3.5	3.5	3.5	9.0	6.5	14.5	13.5
14	19.0	16.0	9.5	8.0	4.0	3.5	5.0	3.5	9.0	8.0	14.5	12.0
15	16.5	15.0	9.0	8.0	4.5	4.0	5.0	3.5	9.0	8.0	14.5	11.5
16	15.0	13.5	8.0	6.5	4.5	3.0	5.5	4.0	9.0	6.5	14.5	11.5
17	13.5	11.5	7.0	6.0	3.5	3.0	5.0	4.0	9.5	7.0	15.0	12.0
18	13.5	11.0	7.0	6.5	3.5	3.0	5.5	4.0	10.0	8.5	15.0	12.0
19	13.0	11.0	7.0	6.0	3.5	3.0	6.0	5.0	10.5	9.0	14.5	11.5
20	13.0	11.0	6.5	5.5	3.5	2.0	6.5	5.5	10.0	8.5	15.0	11.5
21	13.5	11.0	7.0	6.5	3.5	3.0	6.0	5.0	10.5	9.0	15.0	12.0
22	13.0	11.0	7.0	6.5	5.5	3.5	6.0	5.0	10.5	10.0	13.5	11.0
23	13.0	11.5	7.0	6.5	5.5	5.0	6.0	5.5	10.5	9.5	11.5	9.5
24	12.0	11.5	7.0	6.5	6.0	5.5	5.5	4.0	10.0	8.5	12.0	9.5
25	12.0	10.0	8.0	7.0	6.0	6.0	5.5	4.5	10.5	9.0	13.5	10.0
26	11.5	10.0	8.0	7.0	6.0	5.0	5.0	4.5	10.5	9.0	11.5	9.5
27	12.0	10.5	8.5	7.0	5.5	5.0	4.5	4.0	11.0	9.0	10.0	7.0
28	11.0	9.0	9.0	8.5	5.0	4.0	5.0	4.5	10.5	9.5	10.0	6.5
29	9.0	8.0	9.0	8.5	4.5	3.5	5.5	4.5	10.5	9.5	10.5	6.5
30	9.0	8.0	8.5	7.0	4.5	4.0	5.5	4.0	---	---	11.5	8.0
31	9.0	8.0	---	---	5.0	3.5	5.0	3.5	---	---	11.5	9.0
MONTH	20.0	8.0	11.5	5.5	8.5	2.0	6.5	1.5	11.0	3.5	15.0	6.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.0	18.0	12.0	23.0	19.5	28.0	23.0	28.5	21.0	---	---
2	14.5	10.0	18.5	13.5	22.0	20.0	27.0	23.0	29.0	20.5	---	---
3	15.5	11.0	18.0	13.5	23.0	19.5	27.0	22.0	29.5	21.0	---	---
4	14.5	12.0	17.0	13.5	23.0	19.5	27.0	22.0	30.0	21.0	---	---
5	12.0	11.5	18.0	13.5	24.0	19.5	28.0	22.0	30.0	21.0	---	---
6	14.5	10.5	16.5	13.5	23.5	21.0	27.0	21.5	29.5	21.5	21.5	18.5
7	14.0	10.5	16.5	12.0	24.0	20.0	26.0	21.0	30.0	23.5	24.0	19.5
8	14.0	10.0	16.0	12.0	23.0	20.0	24.0	20.5	---	---	24.5	20.0
9	13.0	10.0	15.5	11.5	21.5	19.5	25.5	20.0	---	---	24.0	20.0
10	13.0	10.5	16.5	11.5	19.5	18.0	26.5	20.0	---	---	22.0	19.5
11	11.5	11.0	18.5	13.0	20.0	16.0	27.0	20.5	---	---	22.0	18.0
12	11.0	9.5	19.0	13.5	19.5	16.0	28.5	21.0	---	---	21.0	16.0
13	10.0	9.0	20.0	14.5	20.5	16.5	29.0	22.0	---	---	21.5	16.0
14	11.0	7.0	20.5	15.5	21.5	17.0	30.5	23.5	---	---	21.5	16.0
15	13.0	8.5	20.5	15.5	22.0	18.5	31.0	24.0	---	---	21.5	16.5
16	14.0	10.0	20.0	16.0	23.0	19.0	30.5	24.5	---	---	22.0	16.5
17	14.0	10.5	19.5	16.0	23.0	19.0	29.5	23.5	---	---	23.0	16.5
18	11.0	9.5	18.5	14.5	23.5	19.5	29.0	23.5	---	---	21.0	16.5
19	11.5	8.5	18.0	14.0	24.0	20.0	28.5	23.0	---	---	21.5	16.5
20	12.0	8.5	14.0	13.0	24.5	20.5	26.0	21.5	---	---	21.5	16.0
21	14.0	9.5	15.5	11.0	24.0	20.5	26.0	20.0	---	---	21.5	16.0
22	15.0	10.0	18.0	12.0	24.0	20.5	26.0	20.0	---	---	21.0	16.0
23	15.5	11.0	19.0	14.0	23.0	20.0	26.5	20.5	---	---	21.5	16.0
24	14.5	11.5	19.5	14.5	23.0	19.5	26.5	20.0	---	---	20.5	15.0
25	14.5	10.0	19.5	15.0	23.0	19.0	27.0	20.0	---	---	20.0	14.5
26	15.5	10.5	20.0	15.5	23.0	19.5	27.0	20.0	---	---	19.5	14.5
27	16.5	11.5	21.0	16.5	24.0	20.0	28.5	20.5	---	---	20.5	15.5
28	17.0	13.0	22.0	18.0	25.0	20.5	29.5	20.5	---	---	21.0	15.5
29	16.0	11.5	23.0	18.5	26.0	21.5	26.0	21.5	---	---	19.5	15.5
30	16.5	11.5	23.0	19.0	27.0	23.0	28.5	23.5	---	---	18.5	16.0
31	---	---	22.0	19.5	---	---	30.0	23.0	---	---	---	---
MONTH	17.0	7.0	23.0	11.0	27.0	16.0	31.0	20.0	---	---	24.5	14.5

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 miles downstream from Kerckhoff powerhouse, 1.4 miles upstream from Big Sandy Creek, and 3.8 miles southeast of Prather.

DRAINAGE AREA.--1,480 sq mi.

PERIOD OF RECORD.--Water temperatures: November 1960 to September 1968, January 1970 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 20.5°C Sept. 2; minimum, 4.0°C on several days during January and February.

Period of record:
Water temperatures: Maximum (1960-66, 1967-68, 1970-72), 29.0°C Sept. 1, 2, 1968; minimum (1960-68, 1970-72), 2.0°C Jan. 29, 1968.

REMARKS.--Recorder malfunction Oct. 20 to Nov. 5, Dec. 6-10.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

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 mile downstream from Bean Gulch, and 6 miles northeast of Knowles.

DRAINAGE AREA.--133 sq mi.

PERIOD OF RECORD.--Water temperatures: July 1971 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 30.0°C July 1, 2, Aug. 8; minimum, 0.5°C Jan. 5, 6.

Period of record:
Water temperatures: Maximum, 33.0°C Aug. 11, 1971; minimum, 0.5°C Jan. 5, 6, 1972.

REMARKS.--Probe buried Mar. 22 to Apr. 6, 11-20; no flow Aug. 16-21, Aug. 28 to Sept. 6, 19.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	12.5	10.5	6.0	7.0	4.5	4.5	3.0	4.5	1.5	9.5	7.5
2	19.5	13.0	10.5	5.5	6.0	5.0	4.5	3.0	4.5	1.5	10.5	8.5
3	20.0	13.0	11.0	6.0	5.0	4.0	4.0	3.0	5.0	1.0	10.0	9.0
4	21.0	13.5	11.5	6.5	5.0	4.0	3.0	1.0	4.0	2.0	12.0	9.0
5	21.0	14.5	11.0	6.5	6.5	4.0	3.0	0.5	6.0	4.0	12.5	10.5
6	22.0	15.0	11.0	7.0	5.5	4.5	4.0	0.5	6.5	5.0	12.5	10.5
7	21.5	16.0	11.0	6.5	5.0	3.5	4.5	1.5	7.0	5.0	12.5	11.0
8	21.5	15.5	10.0	6.5	3.5	2.0	4.0	1.5	6.5	5.0	13.0	11.0
9	22.0	16.0	12.0	8.0	3.5	1.0	3.5	1.5	8.0	5.5	13.0	11.0
10	22.0	16.5	11.0	7.5	4.5	3.5	3.5	1.5	8.0	5.5	13.0	11.0
11	21.5	16.0	11.5	10.0	5.0	3.0	3.0	2.5	8.0	5.5	13.0	11.5
12	20.5	15.0	11.5	9.0	4.0	3.5	3.5	3.0	8.0	5.0	12.5	11.0
13	21.0	15.5	9.0	7.5	4.0	3.0	3.5	3.0	8.5	5.5	12.5	11.0
14	20.0	15.0	7.5	5.5	5.0	3.5	5.0	3.0	8.5	6.5	12.5	11.0
15	18.0	13.0	7.0	5.5	6.5	4.5	5.5	2.5	8.5	7.0	13.0	12.0
16	14.5	11.5	7.5	4.5	5.5	3.5	6.0	2.5	9.0	6.5	13.0	11.5
17	15.5	10.5	7.5	4.5	4.5	2.0	6.0	2.5	9.5	6.5	13.5	11.5
18	14.5	10.0	8.0	5.0	4.0	2.0	6.0	3.0	10.0	7.0	13.5	12.0
19	14.5	9.5	7.5	4.5	4.5	2.0	6.5	4.0	10.5	8.0	13.5	11.5
20	13.5	10.0	7.0	4.5	4.5	2.0	6.0	4.5	10.5	8.0	13.5	11.5
21	14.5	10.0	7.5	4.5	4.0	2.0	5.5	4.0	11.0	8.0	13.5	11.5
22	14.5	10.0	7.5	5.0	7.5	4.0	6.5	5.0	11.5	9.5	---	---
23	13.5	10.5	7.5	5.0	7.0	5.5	7.0	4.5	10.0	7.5	---	---
24	14.0	11.0	7.5	4.5	7.5	6.0	5.5	2.5	10.0	7.5	---	---
25	13.5	8.5	8.0	5.5	7.5	6.5	4.5	3.5	10.0	8.0	---	---
26	13.0	9.0	7.0	5.0	6.5	4.5	5.0	3.5	11.0	8.5	---	---
27	12.5	9.0	8.5	6.5	5.5	5.0	3.5	3.0	11.0	8.5	---	---
28	11.0	7.0	8.5	7.5	5.0	4.0	5.0	2.5	10.5	8.5	---	---
29	8.5	5.0	9.5	7.5	5.0	4.0	5.0	3.0	11.0	9.0	---	---
30	8.0	4.5	8.0	5.5	5.0	4.5	6.0	3.0	---	---	---	---
31	10.0	6.0	---	---	5.5	4.0	5.5	2.0	---	---	---	---
MONTH	22.0	4.5	12.0	4.5	7.5	1.0	7.0	0.5	11.5	1.0	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	19.0	12.5	23.0	21.0	30.0	24.0	28.5	21.5	---	---
2	---	---	19.5	14.0	23.5	19.5	30.0	23.5	27.5	22.0	---	---
3	---	---	19.5	14.5	24.0	20.5	28.5	22.5	29.0	22.0	---	---
4	---	---	19.0	14.5	25.0	20.0	28.5	23.0	28.5	21.5	---	---
5	---	---	19.5	14.0	23.5	20.0	28.0	23.0	28.0	22.0	---	---
6	---	---	17.5	13.5	23.5	22.0	27.0	24.0	29.5	23.0	---	---
7	15.0	10.0	18.0	13.0	25.0	20.0	27.0	22.0	29.5	23.5	26.5	20.0
8	15.5	10.0	18.0	13.0	23.0	20.5	26.5	21.0	30.0	23.5	25.5	21.0
9	13.5	10.5	17.5	11.5	21.0	18.0	27.0	20.5	29.5	23.5	26.5	21.0
10	14.5	10.5	19.0	12.5	20.0	16.0	27.0	21.0	29.5	27.0	24.5	19.5
11	---	---	20.0	13.5	21.0	13.5	28.0	22.0	29.5	24.0	22.0	18.0
12	---	---	21.0	15.0	22.0	15.5	27.5	22.5	28.5	21.5	22.5	16.0
13	---	---	21.5	17.0	24.0	17.5	26.5	24.0	26.5	21.0	23.5	15.5
14	---	---	22.5	16.5	25.0	18.5	29.5	25.0	24.0	17.5	22.0	15.5
15	---	---	22.5	17.5	26.0	19.0	29.5	25.0	24.5	16.5	20.5	18.0
16	---	---	21.0	16.0	23.5	19.5	28.5	25.5	---	---	23.0	17.0
17	---	---	20.0	15.5	26.0	19.0	29.0	24.5	---	---	23.0	17.5
18	---	---	19.5	13.5	26.0	21.5	26.5	24.5	---	---	20.0	16.0
19	---	---	18.0	12.5	27.5	21.0	25.0	22.5	---	---	---	---
20	---	---	12.5	10.5	28.0	21.0	25.5	22.0	---	---	22.0	15.0
21	15.0	9.0	16.0	10.0	26.0	21.5	27.5	20.5	---	---	22.0	16.0
22	16.0	10.0	18.0	12.0	26.0	21.5	27.5	21.5	25.0	17.5	22.0	15.0
23	17.0	11.0	19.5	14.0	25.5	20.0	27.5	21.5	27.5	20.0	21.5	15.5
24	17.0	12.0	20.0	15.0	25.0	19.0	28.5	21.5	27.5	19.5	18.0	14.0
25	15.5	9.5	20.5	14.5	26.0	19.0	28.0	21.5	26.0	20.0	18.5	13.0
26	16.5	10.5	21.0	15.5	26.0	19.5	25.5	21.0	27.5	20.5	17.5	15.0
27	18.0	12.0	22.5	17.5	26.0	20.5	28.0	21.0	27.5	21.0	21.0	15.5
28	17.5	12.5	23.5	18.5	26.0	21.5	29.5	21.0	---	---	21.0	15.5
29	17.0	11.5	23.5	19.0	28.5	22.0	28.0	22.5	---	---	20.5	16.0
30	17.5	11.0	25.0	22.5	28.5	23.5	28.5	24.5	---	---	20.5	17.0
31	---	---	25.0	20.0	---	---	27.0	26.0	---	---	---	---
MONTH	---	---	25.0	10.0	28.5	13.5	30.0	20.5	---	---	---	---

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 downstream from County Road 613 bridge, 2,300 ft downstream from Chapman Creek, and 3.8 miles northwest of Raymond.

DRAINAGE AREA.--201 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 30.0°C May 14, June 5; minimum recorded, 2.0°C Jan. 5, 6.

REMARKS.--Recorder malfunction Oct. 1 to Nov. 21, 23-26, 28, Dec. 2-22, 26, 27, Dec. 31 to Jan. 2, 4, Feb. 15 to Mar. 7, Aug. 14, 15.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	9.5	5.5	---	---	8.5	3.5	---	---
2	---	---	---	---	---	---	---	---	8.5	4.5	---	---
3	---	---	---	---	---	---	6.5	6.0	8.5	3.5	---	---
4	---	---	---	---	---	---	---	---	7.0	4.5	---	---
5	---	---	---	---	---	---	5.5	2.0	8.5	7.0	---	---
6	---	---	---	---	---	---	5.5	2.0	10.0	7.5	---	---
7	---	---	---	---	---	---	5.5	2.5	11.0	7.5	---	---
8	---	---	---	---	---	---	5.5	2.5	10.0	8.0	22.0	15.0
9	---	---	---	---	---	---	4.5	3.0	11.0	8.5	20.5	14.5
10	---	---	---	---	---	---	5.0	4.0	10.5	8.0	21.5	15.0
11	---	---	---	---	---	---	5.0	4.5	11.0	8.0	21.5	14.5
12	---	---	---	---	---	---	5.5	4.5	11.0	8.0	19.0	15.0
13	---	---	---	---	---	---	5.5	5.0	11.5	8.5	21.0	14.0
14	---	---	---	---	---	---	7.5	5.0	11.5	9.0	21.5	14.0
15	---	---	---	---	---	---	8.5	4.0	---	---	22.5	15.0
16	---	---	---	---	---	---	8.0	4.0	---	---	23.5	15.0
17	---	---	---	---	---	---	8.5	4.0	---	---	23.5	15.0
18	---	---	---	---	---	---	8.0	4.0	---	---	22.5	15.0
19	---	---	---	---	---	---	8.5	5.0	---	---	22.0	14.0
20	---	---	---	---	---	---	10.0	7.5	---	---	23.0	14.5
21	---	---	---	---	---	---	9.5	7.5	---	---	22.5	15.0
22	---	---	10.0	5.5	---	---	10.5	7.5	---	---	20.0	15.5
23	---	---	---	---	10.0	8.5	10.5	7.0	---	---	20.5	12.0
24	---	---	---	---	11.0	9.0	8.5	4.5	---	---	21.0	12.0
25	---	---	---	---	10.5	9.0	7.5	5.5	---	---	21.0	13.5
26	---	---	---	---	---	---	8.5	6.0	---	---	19.0	11.0
27	---	---	11.5	8.0	---	---	7.0	6.0	---	---	18.5	10.0
28	---	---	---	---	8.0	6.0	8.5	6.0	---	---	19.0	9.5
29	---	---	12.0	7.5	8.5	6.0	7.0	5.5	---	---	19.0	10.0
30	---	---	10.0	6.5	8.0	6.0	8.0	6.0	---	---	20.5	11.0
31	---	---	---	---	---	---	8.5	4.0	---	---	19.0	12.0
MONTH	---	---	---	---	---	---	10.5	2.0	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	14.0	24.5	17.0	28.5	22.5	27.5	22.5	26.5	21.0	26.5	22.0
2	22.5	13.0	25.5	18.0	28.5	23.0	27.0	22.5	27.0	21.0	25.5	21.5
3	23.5	14.5	27.0	18.5	28.0	23.0	27.0	22.0	27.0	21.5	25.5	21.5
4	20.5	16.5	26.0	18.5	27.5	22.5	27.0	22.0	27.0	21.5	24.0	22.5
5	17.5	15.5	26.5	18.5	30.0	22.5	27.5	22.5	27.5	21.5	24.5	22.0
6	22.0	14.0	26.0	18.0	27.5	24.5	27.0	21.5	27.0	22.0	25.5	21.5
7	22.5	13.5	26.0	16.5	28.5	23.5	26.5	21.0	27.5	23.0	25.5	21.5
8	22.0	13.0	25.5	17.0	26.5	23.0	26.0	21.0	27.5	23.0	25.5	21.5
9	19.5	14.0	26.0	16.5	25.0	22.0	26.5	21.0	27.5	22.5	25.0	21.0
10	22.0	14.5	27.0	17.0	25.0	20.5	26.5	21.0	27.5	23.0	24.0	20.0
11	18.0	15.5	28.0	18.0	26.5	19.5	27.0	21.5	27.0	22.5	23.5	19.5
12	16.0	14.0	29.0	19.0	26.5	19.0	27.5	22.0	26.5	21.5	23.5	18.5
13	16.5	11.5	29.5	20.0	28.0	21.0	27.5	22.5	26.5	21.0	23.5	18.5
14	16.5	11.5	30.0	20.5	28.5	22.0	28.0	23.0	---	---	23.5	19.0
15	18.5	13.0	29.0	21.0	29.5	22.5	28.0	23.0	---	---	23.5	19.5
16	20.0	15.0	27.5	20.0	29.0	22.0	28.0	23.5	24.5	19.5	23.5	19.5
17	20.5	14.5	26.0	19.5	27.5	21.5	27.5	22.0	25.5	20.5	23.5	19.5
18	19.5	14.0	26.0	18.5	27.0	22.0	27.0	22.5	25.5	21.0	23.0	19.5
19	20.0	12.5	21.0	18.0	27.0	22.0	26.5	22.0	25.0	21.0	23.0	19.0
20	20.5	13.0	21.0	16.5	27.0	22.0	26.0	21.5	25.5	21.0	22.5	18.5
21	21.5	14.0	25.0	17.0	26.5	22.0	26.0	21.0	25.5	20.5	23.0	18.5
22	22.0	15.0	26.0	17.5	26.0	21.5	26.5	21.0	25.5	20.5	23.0	18.5
23	23.0	16.0	26.5	18.5	25.0	21.0	26.5	21.0	25.5	21.0	23.0	18.5
24	21.5	17.0	26.5	19.0	25.5	20.5	26.5	21.5	25.5	20.5	22.0	17.5
25	22.0	14.5	26.5	19.0	25.5	20.5	26.5	21.0	25.5	21.0	22.0	17.0
26	23.0	15.5	27.5	20.5	26.0	21.0	26.5	21.0	26.0	21.5	22.0	18.5
27	24.0	16.5	28.5	21.5	26.0	21.0	26.5	20.5	26.0	21.5	23.0	20.0
28	23.5	17.5	29.0	22.5	26.5	21.5	27.0	21.0	26.0	22.0	23.5	19.0
29	22.5	16.0	28.5	22.5	27.0	22.0	25.5	22.0	26.5	22.0	22.5	19.0
30	23.0	15.5	28.5	22.5	27.5	23.0	26.5	23.5	26.5	22.0	22.0	19.5
31	---	---	29.0	23.0	---	---	27.5	22.5	26.5	22.5	---	---
MONTH	24.0	11.5	30.0	16.5	30.0	19.0	28.0	20.5	27.5	19.5	26.5	17.0

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 downstream from footbridge at Happy Isles, 0.4 mile downstream from Illiloutette Creek, and 2.0 miles southeast of Yosemite National Park headquarters.

DRAINAGE AREA.--181 sq mi.

PERIOD OF RECORD.--Chemical analyses: March 1968 to September 1972.
Water temperatures: October 1965 to September 1972.
Sediment records: Water years 1970-71 (partial-record station).

EXTREMES, 1971-72:
Water temperatures: Maximum, 18.5°C July 16; minimum, freezing point Feb. 2, 3.

Period of record:
Water temperatures: Maximum (1966-72), 18.5°C July 30, 31, Aug. 10, 1971, July 16, 1972; minimum, freezing point on many days during winter period each year.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
OCT.												
19...	1000	7.4	7.8	40	6.3	.3	2.5	.4	14	0	11	2.3
DEC.												
07...	1100	36	7.9	60	4.2	.3	2.6	.3	10	0	8	1.8
JAN.												
11...	1100	58	11	30	2.6	.2	2.4	.4	12	0	10	1.0
FEB.												
23...	1100	102	9.0	30	3.8	.1	2.2	.3	11	0	9	.3
APR.												
18...	1300	299	8.9	40	1.6	.2	1.5	.3	9	0	7	1.8
MAY												
23...	1530	475	6.0	50	3.1	.1	.8	.2	15	0	12	2.3
JULY												
10...	1400	138	5.0	60	2.2	.2	1.0	.3	8	0	7	5.0
AUG.												
24...	1300	11	6.4	80	3.1	.2	2.3	.4	9	0	7	3.2

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	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)	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT.												
19...	4.8	.0	.06	.05	.63	.68	.74	.04	.01	--	24	32
DEC.												
07...	5.1	.0	.03	.03	.91	.94	.97	.07	.00	40	--	27
JAN.												
11...	2.6	.0	.03	.06	.24	.30	.33	.01	.00	36	--	26
FEB.												
23...	3.7	.1	.03	.09	.22	.31	.34	.00	.00	--	--	25
APR.												
18...	1.6	.0	.35	.22	.06	.28	.63	.03	.00	--	--	22
MAY												
23...	.6	.0	.04	.01	--	--	--	.02	.00	--	--	21
JULY												
10...	1.0	.2	.05	.03	.06	.09	.14	.02	.00	--	--	19
AUG.												
24...	4.5	.1	.00	.01	.09	.10	.10	.03	.01	37	--	25

11264500 MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	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 BORON (B) (UG/L)
OCT.											
19...	.04	.67	1	17	6	24	.3	33	7.0	5.5	10
DEC.											
07...	.05	3.89	--	12	4	32	.3	33	6.8	1.0	40
JAN.											
11...	.05	5.64	--	7	0	40	.4	27	7.1	1.0	30
FEB.											
23...	.03	6.88	--	10	1	32	.3	29	7.9	3.0	20
APR.											
18...	.03	17.8	--	5	0	39	.3	16	6.7	3.0	10
MAY											
23...	.03	26.9	--	8	0	17	.1	12	8.3	9.0	20
JULY											
10...	.03	7.08	--	6	0	25	.2	15	6.4	14.0	0
AUG.											
24...	.05	1.10	--	9	1	36	.3	27	6.1	13.0	10

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.							
19...	1000	7.4	20	6.8	5.5	12.6	152
DEC.							
07...	1100	36	17	6.9	1.0	12.6	21
JAN.							
11...	1100	58	17	6.9	1.0	12.0	11
FEB.							
23...	1100	102	17	6.9	3.0	13.0	5
APR.							
18...	1300	299	10	6.9	3.0	11.0	4
MAY							
23...	1530	475	10	6.9	9.0	10.0	7
JULY							
10...	1400	138	12	6.9	14.0	10.0	176
AUG.							
24...	1300	11	20	6.9	13.0	9.6	117

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/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)
OCT.										
19...	.6	.1	1.7	.4	2.5	.4	2.1	.4	.07	.26

11264500 MERCED RIVER AT HAPPY ISLES BRIDGE, NEAR YOSEMITE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	6.5	5.0	4.0	2.0	1.0	1.0	0.5	1.0	0.5	4.0	1.5
2	8.5	6.5	5.0	4.5	1.5	1.0	1.5	1.0	0.5	0.0	6.0	3.5
3	9.5	7.5	5.5	5.0	1.0	1.0	1.5	1.0	0.5	0.0	6.5	4.0
4	10.0	8.0	6.0	5.5	1.0	1.0	1.5	1.0	1.0	0.5	6.5	3.5
5	10.5	8.5	6.0	5.5	1.5	1.0	1.5	1.0	1.0	0.5	6.0	2.5
6	11.0	9.0	6.0	5.5	2.0	1.5	1.5	1.5	1.5	1.0	6.0	3.0
7	11.0	9.5	6.0	5.5	2.0	1.0	2.0	1.5	1.5	1.0	6.0	3.0
8	11.0	9.5	6.0	5.5	1.5	1.0	1.5	1.0	1.5	1.0	7.0	3.5
9	11.5	9.5	6.5	5.5	1.5	1.0	1.5	1.0	2.0	1.5	6.0	3.5
10	11.5	9.5	6.0	5.5	1.5	1.0	1.5	1.0	1.5	1.0	6.5	3.5
11	11.5	9.5	6.0	5.5	1.5	1.0	1.5	1.0	1.5	1.0	6.5	3.5
12	10.5	9.0	6.0	3.5	1.0	0.5	1.5	1.0	2.0	1.0	6.0	4.0
13	10.5	9.0	3.5	1.5	1.0	0.5	1.5	1.0	1.5	1.0	6.5	4.0
14	10.0	8.5	2.0	1.5	1.0	0.5	1.5	1.0	2.0	1.0	6.5	2.5
15	9.0	7.0	2.0	1.0	1.0	0.5	1.5	1.0	2.0	1.0	7.0	3.5
16	7.0	5.5	2.0	1.0	1.0	0.5	1.5	1.0	2.0	1.0	7.0	3.5
17	6.0	5.0	2.0	1.5	1.5	1.0	1.5	1.0	2.0	1.0	7.0	4.0
18	6.5	5.0	2.5	1.5	2.0	1.5	2.5	1.5	3.0	1.5	6.5	3.5
19	6.5	5.5	2.0	1.5	2.0	1.5	3.0	2.5	3.0	2.0	7.0	3.0
20	6.5	6.0	2.5	2.0	2.0	1.5	3.0	2.0	3.0	1.5	7.0	3.0
21	7.0	6.5	3.0	2.5	2.0	1.5	3.0	2.0	3.5	2.0	7.0	3.5
22	7.0	7.0	3.0	3.0	2.0	1.5	2.5	2.0	3.5	2.5	5.0	2.5
23	7.0	6.5	3.5	3.0	2.0	1.5	2.5	1.5	3.5	2.0	5.5	2.0
24	7.0	7.0	3.5	3.0	3.0	2.0	2.0	1.5	3.5	2.5	7.0	3.0
25	7.0	6.0	3.5	3.0	2.5	1.0	1.5	1.0	4.5	3.5	6.5	3.5
26	6.5	6.0	4.0	3.0	1.5	1.0	1.5	0.5	4.5	3.0	4.5	2.0
27	6.0	6.0	4.0	4.0	1.5	1.0	0.5	0.5	4.5	2.0	3.5	1.5
28	6.0	4.0	4.0	4.0	1.0	0.5	0.5	0.5	4.0	3.0	3.5	1.0
29	4.5	3.5	4.0	2.5	1.0	0.5	1.0	0.5	4.5	3.0	4.5	1.0
30	4.5	3.5	2.5	1.0	0.5	0.5	1.0	0.5	---	---	6.0	2.0
31	5.0	4.5	---	---	1.0	0.5	1.0	0.5	---	---	6.5	3.5
MONTH	11.5	3.5	6.5	1.0	3.0	0.5	3.0	0.5	4.5	0.0	7.0	1.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	4.5	10.0	5.0	11.5	9.0	16.0	13.0	15.5	13.5	15.0	13.5
2	8.0	4.5	9.5	5.5	11.5	9.5	16.0	12.5	15.0	12.0	14.5	13.0
3	8.0	4.5	9.0	5.5	11.5	9.5	16.0	13.0	15.5	13.5	14.0	12.0
4	7.0	5.5	8.5	5.5	11.5	9.0	15.5	12.5	15.5	13.0	14.0	13.5
5	6.5	4.0	9.0	6.0	12.0	9.0	15.5	13.5	15.5	13.0	15.0	14.0
6	6.5	4.0	9.5	6.5	11.5	10.0	15.0	12.0	15.5	13.5	15.0	12.5
7	7.5	3.5	8.5	5.5	11.5	10.0	14.5	11.5	16.0	14.0	14.5	12.5
8	7.0	3.0	9.0	5.0	11.0	9.5	14.5	11.5	16.5	14.5	14.0	13.0
9	6.5	4.0	9.0	5.5	10.5	9.0	14.5	12.0	16.5	14.5	14.0	12.0
10	7.0	5.0	9.5	5.0	10.5	8.5	15.0	12.5	17.0	15.5	12.5	10.5
11	5.5	2.5	10.0	5.5	11.5	7.0	15.5	13.0	17.0	14.5	10.5	8.5
12	3.5	1.5	10.5	6.0	12.5	8.5	16.5	14.0	15.5	13.5	10.0	7.0
13	3.5	1.0	10.5	6.0	12.5	9.0	17.5	14.5	14.5	12.5	11.0	8.5
14	5.5	1.0	10.5	7.0	13.0	10.0	17.5	14.5	13.5	11.5	11.5	8.5
15	7.5	3.0	10.0	6.5	13.5	10.5	18.0	15.0	13.0	10.5	11.5	9.5
16	7.0	3.5	9.5	6.5	13.5	10.5	18.5	16.0	12.5	10.0	11.5	10.0
17	6.0	3.5	9.5	6.5	13.5	10.5	18.0	14.5	12.5	10.5	11.5	9.5
18	3.5	1.0	8.5	6.0	14.5	11.0	18.0	15.5	14.0	12.0	11.0	10.0
19	4.5	0.5	6.5	5.0	15.0	11.5	18.0	15.0	14.5	12.0	10.5	9.5
20	6.5	1.5	5.5	4.5	14.5	12.0	16.0	14.0	13.5	11.5	10.5	9.0
21	7.5	3.5	7.5	5.0	14.5	11.5	14.5	11.5	14.5	12.0	10.5	9.5
22	8.0	3.5	9.5	5.0	14.0	11.0	15.5	13.0	14.5	12.0	9.5	8.5
23	8.0	4.0	10.5	6.5	14.0	10.5	15.5	12.5	14.5	12.0	10.0	8.5
24	7.0	5.0	10.5	6.5	13.5	10.0	14.5	12.0	14.5	12.0	9.5	8.0
25	7.5	2.5	11.0	7.0	14.0	10.0	14.0	11.0	14.5	11.5	8.5	7.5
26	9.5	4.5	11.5	7.5	14.5	11.0	14.0	11.5	14.5	12.0	10.0	8.5
27	9.0	5.5	12.0	8.0	15.5	11.5	14.5	11.5	14.0	12.5	10.5	9.5
28	8.5	5.0	11.5	8.0	15.5	12.0	15.5	13.0	14.0	13.0	10.5	9.5
29	8.5	4.0	11.5	8.5	16.0	13.0	15.5	14.0	14.5	12.5	10.5	9.5
30	9.5	4.5	12.0	8.5	16.5	13.5	17.5	15.5	14.5	13.0	10.5	9.5
31	---	---	12.0	9.0	---	---	17.0	15.0	14.5	12.5	---	---
MONTH	9.5	0.5	12.0	4.5	16.5	7.0	18.5	11.0	17.0	10.0	15.0	7.0

11276500 TUOLUMNE RIVER NEAR HETCH HETCHY, CALIF.

LOCATION.--Lat 37°56'15", long 119°47'50", in SW¼SE¼ sec.17, T.1 N., R.20 E., Tuolumne County, Yosemite National Park, temperature recorder at gaging station on left bank, 1 mile downstream from O'Shaughnessy Dam at Hetch Hetchy, and 2.5 miles downstream from Falls Creek.

DRAINAGE AREA.--457 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1972 (discontinued).

EXTREMES, 1971-72:
Water temperatures: Maximum, 17.0°C Nov. 3, 7, 10, 12; minimum, 4.5°C Feb. 18.

REMARKS.--Power failure Dec. 24-28, Feb. 28, 29, Apr. 11 to May 1; range in temperature, 7.0°C to 10.0°C, 5.0°C to 9.0°C, and 8.5°C to 10.0°C, respectively. No usable record May 12, 19-23; power supply erratic, no range in temperature available.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

11276600 TUOLUMNE RIVER ABOVE EARLY INTAKE, NEAR MATHER, CALIF.

LOCATION.--Lat 37°52'46", long 119°56'46", in SE¼SW¼ sec.1, T.1 S., R.18 E., Tuolumne County, Stanislaus National Forest, temperature recorder at gaging station on right bank, 0.5 mile upstream from Early Intake, 5.0 miles west of Mather, and 2.4 miles upstream from Cherry Creek.

DRAINAGE AREA.--484 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1971 to June 1972 (discontinued).

EXTREMES, October 1971 to June 1972:
Water temperatures: Minimum, freezing point on several days in January.

REMARKS.--Battery removed Nov. 2-9, Mar. 8-15; no range in temperature available.

TEMPERATURE (°C) OF WATER, OCTOBER 1971 TO JUNE 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	9.5	7.5	5.5	7.0	5.5	4.0	2.5	5.5	4.5	10.0	8.0
2	14.5	11.5	---	---	7.0	5.5	4.5	3.0	5.0	4.5	10.5	8.0
3	14.0	10.0	---	---	6.5	4.5	4.0	2.5	5.0	4.5	11.0	9.0
4	14.0	11.0	---	---	6.0	4.5	3.5	2.5	5.5	5.0	12.5	9.0
5	14.0	11.0	---	---	6.0	4.5	3.5	2.0	5.5	5.0	14.0	10.5
6	15.0	12.5	---	---	6.0	4.5	3.0	2.0	6.5	5.0	15.0	11.0
7	15.5	13.0	---	---	5.5	4.5	3.0	2.0	6.5	5.0	15.5	11.5
8	16.5	13.5	---	---	5.5	4.0	3.5	0.0	6.5	5.0	---	---
9	16.5	13.5	---	---	5.5	4.0	3.0	1.5	6.5	5.0	---	---
10	16.5	14.0	9.5	7.0	5.5	4.0	3.5	1.0	6.5	5.5	---	---
11	16.5	14.5	10.0	8.5	5.5	3.5	3.5	2.0	7.0	5.5	---	---
12	16.0	14.0	9.5	9.0	5.0	3.0	3.5	1.0	7.5	5.5	---	---
13	17.0	14.0	9.5	8.0	5.0	3.5	4.0	1.5	7.5	5.5	---	---
14	16.0	14.0	8.5	7.5	5.0	3.0	4.0	0.0	7.5	5.5	---	---
15	15.0	13.5	7.5	6.5	5.0	3.0	4.5	1.5	7.5	5.5	---	---
16	14.0	11.5	7.5	6.0	4.0	2.5	3.5	0.0	8.0	6.0	14.5	10.0
17	12.5	10.0	6.5	5.0	4.5	2.5	4.0	0.0	8.0	6.0	15.0	11.5
18	12.0	7.5	7.0	5.0	4.5	3.0	4.5	3.0	9.0	7.0	14.5	10.5
19	11.5	7.5	6.5	5.0	4.0	3.0	6.0	4.0	9.0	7.0	14.5	11.0
20	11.0	8.5	6.5	5.0	4.0	3.0	5.5	1.5	9.0	7.0	15.0	10.5
21	11.5	8.0	7.0	5.0	4.5	3.0	6.5	2.0	9.0	8.0	14.0	11.0
22	11.0	8.0	7.0	5.0	6.0	4.0	6.0	0.0	10.0	8.0	13.0	9.5
23	11.0	8.0	6.5	5.0	6.0	5.5	6.0	4.0	9.5	8.0	13.0	9.0
24	11.0	8.0	7.0	5.0	6.0	5.0	5.5	4.0	9.0	8.0	13.0	9.5
25	10.5	6.5	7.5	4.5	6.0	5.0	5.5	4.0	9.0	8.0	13.0	9.5
26	10.5	7.5	7.5	4.5	5.0	4.5	5.0	3.5	10.0	8.0	12.5	9.0
27	11.0	8.0	8.5	6.5	5.0	4.5	5.0	2.5	10.5	8.0	12.0	9.0
28	9.5	6.5	7.5	6.5	5.0	4.5	6.0	0.0	10.5	8.0	12.5	7.5
29	7.5	5.0	8.0	6.0	5.0	4.0	6.5	3.0	11.0	9.5	13.0	7.5
30	7.5	5.0	7.5	6.0	4.0	3.5	6.0	4.5	---	---	13.0	7.5
31	7.5	5.5	---	---	4.0	2.5	5.5	4.5	---	---	13.5	10.0
MONTH	17.0	5.0	---	---	7.0	2.5	6.5	0.0	11.0	4.5	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	10.0	17.5	15.0	21.5	18.0	---	---	---	---	---	---
2	14.0	10.0	17.5	14.5	21.5	18.0	---	---	---	---	---	---
3	15.0	10.5	17.0	14.5	21.0	18.0	---	---	---	---	---	---
4	14.5	11.0	17.0	14.5	20.5	17.5	---	---	---	---	---	---
5	13.0	11.0	17.0	13.5	21.5	17.0	---	---	---	---	---	---
6	14.5	10.5	16.0	13.5	19.0	18.0	---	---	---	---	---	---
7	13.5	10.0	15.5	14.5	19.0	17.0	---	---	---	---	---	---
8	14.5	10.0	17.0	14.0	18.5	16.5	---	---	---	---	---	---
9	13.5	11.0	15.5	13.5	17.0	16.0	---	---	---	---	---	---
10	13.0	11.0	17.0	14.0	16.5	14.5	---	---	---	---	---	---
11	13.0	10.0	18.0	14.5	18.5	13.5	---	---	---	---	---	---
12	12.0	9.5	18.5	14.5	19.5	14.5	---	---	---	---	---	---
13	11.0	7.5	19.5	15.5	21.0	16.0	---	---	---	---	---	---
14	12.0	7.0	20.0	15.5	21.5	17.0	---	---	---	---	---	---
15	14.5	8.0	20.0	16.5	21.5	17.5	---	---	---	---	---	---
16	14.5	10.0	19.5	17.0	22.0	17.5	---	---	---	---	---	---
17	14.5	9.5	19.0	17.0	22.0	17.5	---	---	---	---	---	---
18	13.5	10.0	18.0	15.5	22.5	18.0	---	---	---	---	---	---
19	14.0	9.0	16.5	15.0	22.5	18.5	---	---	---	---	---	---
20	14.5	10.0	15.0	13.5	22.5	18.5	---	---	---	---	---	---
21	15.0	10.0	14.5	12.5	22.5	18.5	---	---	---	---	---	---
22	15.0	11.5	15.0	12.5	22.0	18.5	---	---	---	---	---	---
23	15.5	11.5	17.0	13.5	21.0	18.0	---	---	---	---	---	---
24	16.0	13.5	18.0	15.5	21.0	17.0	---	---	---	---	---	---
25	15.5	11.0	18.0	15.5	21.0	17.0	---	---	---	---	---	---
26	17.0	12.5	19.5	15.5	21.5	17.0	---	---	---	---	---	---
27	18.5	14.0	19.5	16.5	22.0	17.5	---	---	---	---	---	---
28	18.5	14.0	21.0	17.5	22.5	18.0	---	---	---	---	---	---
29	18.0	14.0	21.5	17.5	23.5	19.0	---	---	---	---	---	---
30	18.5	15.0	22.0	18.0	24.0	19.5	---	---	---	---	---	---
31	---	---	22.0	18.0	---	---	---	---	---	---	---	---
MONTH	18.5	7.0	22.0	12.5	24.0	13.5	---	---	---	---	---	---

11283100 LILY CREEK NEAR PINECREST, CALIF.

LOCATION.--Lat 38°08'41", long 119°53'59", in T.3 N., R.19 E., Tuolumne County, Stanislaus National Forest, temperature recorder at gaging station on left bank, 1,500 ft downstream from Mud Lake, and 5.7 miles southeast of Pinecrest.

DRAINAGE AREA.--11.9 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1964 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 20.5°C July 16, 17; 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 Dec. 5 to Mar. 3.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	5.0	3.0	3.0	0.5	0.5	---	---	---	---	---	---
2	6.5	5.5	3.0	3.0	0.5	0.5	---	---	---	---	---	---
3	7.5	6.5	3.0	3.0	0.5	0.5	---	---	---	---	---	---
4	8.5	7.5	3.5	3.0	0.5	0.0	---	---	---	---	0.5	0.0
5	9.5	8.5	3.5	3.0	---	---	---	---	---	---	0.5	0.0
6	10.0	9.0	3.5	3.5	---	---	---	---	---	---	0.5	0.0
7	10.5	9.5	3.5	3.0	---	---	---	---	---	---	1.5	0.5
8	10.0	9.0	3.5	3.5	---	---	---	---	---	---	2.0	1.5
9	10.0	9.0	3.5	3.5	---	---	---	---	---	---	1.5	1.0
10	10.0	9.0	3.5	3.5	---	---	---	---	---	---	1.0	0.5
11	10.0	9.5	3.5	2.5	---	---	---	---	---	---	1.0	0.5
12	10.0	9.0	3.0	2.0	---	---	---	---	---	---	0.5	0.5
13	10.0	9.0	2.0	1.5	---	---	---	---	---	---	1.5	0.5
14	10.0	9.0	1.5	1.0	---	---	---	---	---	---	1.5	0.5
15	9.0	6.5	1.0	1.0	---	---	---	---	---	---	1.5	0.5
16	6.5	4.0	1.0	1.0	---	---	---	---	---	---	1.5	0.5
17	4.0	3.0	1.0	1.0	---	---	---	---	---	---	1.5	0.5
18	3.0	3.0	1.0	1.0	---	---	---	---	---	---	1.5	0.5
19	3.5	3.0	1.0	1.0	---	---	---	---	---	---	1.5	0.5
20	3.5	3.5	1.0	1.0	---	---	---	---	---	---	2.0	0.5
21	4.0	3.5	1.0	1.0	---	---	---	---	---	---	1.5	1.0
22	4.5	4.0	1.0	1.0	---	---	---	---	---	---	1.5	0.5
23	4.5	4.5	1.0	1.0	---	---	---	---	---	---	1.5	0.0
24	4.5	4.5	1.0	1.0	---	---	---	---	---	---	2.0	0.5
25	4.5	4.0	1.0	1.0	---	---	---	---	---	---	2.0	1.0
26	4.5	4.0	1.0	1.0	---	---	---	---	---	---	1.5	0.0
27	4.5	4.5	1.5	1.0	---	---	---	---	---	---	2.0	0.5
28	4.5	4.0	1.5	0.5	---	---	---	---	---	---	2.0	0.5
29	4.0	3.5	0.5	0.5	---	---	---	---	---	---	2.0	0.5
30	3.5	3.5	0.5	0.5	---	---	---	---	---	---	2.5	0.5
31	3.5	3.0	---	---	---	---	---	---	---	---	2.5	1.0
MONTH	10.5	3.0	3.5	0.5	---	---	---	---	---	---	2.5	0.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	2.0	1.5	4.0	1.5	11.0	8.0	18.5	16.0	18.0	17.0	15.5	14.0
2	2.0	0.5	4.0	1.5	10.0	8.5	18.5	16.0	17.5	16.0	15.5	13.5
3	2.5	1.0	4.0	2.5	10.5	8.0	18.5	15.5	18.5	16.0	16.0	13.5
4	2.0	1.5	4.5	2.5	10.5	8.5	18.0	15.5	19.5	16.0	16.0	14.5
5	1.5	0.0	4.0	2.5	9.5	8.0	18.0	16.0	19.5	16.0	15.5	13.5
6	1.0	0.0	4.0	2.5	9.0	7.5	17.5	15.0	19.5	16.0	16.0	13.5
7	2.0	0.0	4.5	2.5	8.5	7.0	17.0	15.0	18.5	17.0	15.5	14.0
8	2.0	0.0	5.0	3.0	8.5	7.0	16.5	14.5	19.5	17.0	15.0	14.0
9	2.0	0.5	4.0	2.5	8.0	7.0	16.5	15.0	20.0	16.5	15.0	13.5
10	2.0	1.0	5.0	2.5	7.0	6.0	16.5	15.0	20.0	17.5	15.0	13.5
11	2.0	0.0	6.0	3.0	10.5	5.0	17.0	15.5	20.0	17.0	13.5	12.5
12	0.0	0.0	6.0	3.0	11.5	7.5	18.5	16.5	19.5	16.5	12.5	11.0
13	0.0	0.0	6.5	3.0	12.5	8.5	19.0	17.0	18.5	15.5	13.0	11.0
14	0.0	0.0	6.5	3.5	13.0	9.0	19.5	18.0	17.5	14.5	13.0	11.0
15	0.0	0.0	7.0	4.0	13.5	9.5	20.0	18.5	16.5	13.5	14.0	11.5
16	1.5	0.0	7.0	4.0	14.0	10.0	20.5	19.0	14.5	12.5	14.0	12.0
17	2.0	0.5	6.5	4.5	14.5	10.5	20.5	18.5	16.0	12.5	13.5	12.0
18	2.0	0.5	7.0	4.0	15.0	11.0	19.5	18.5	16.0	13.5	13.5	12.0
19	2.0	0.5	5.5	4.0	15.5	11.0	19.5	18.0	16.0	14.0	12.5	11.0
20	3.0	0.5	4.0	3.5	16.5	12.0	18.5	17.0	16.0	13.5	12.5	10.5
21	4.0	1.0	5.0	3.0	16.0	11.5	17.0	15.0	17.0	13.5	12.5	11.0
22	4.0	1.0	5.5	3.5	14.0	12.0	16.0	15.0	17.5	14.0	12.0	10.5
23	4.0	1.5	8.0	4.0	13.0	11.0	16.5	15.5	17.5	14.0	11.5	9.5
24	2.5	1.5	9.0	5.0	14.0	10.5	16.5	15.5	17.0	14.0	11.0	9.5
25	3.5	0.5	9.0	5.0	14.0	11.0	16.0	15.0	18.0	14.5	10.5	9.0
26	4.0	1.5	9.5	6.0	15.0	12.0	16.0	15.0	18.0	15.0	10.5	10.0
27	4.5	2.0	10.5	6.5	16.5	13.0	16.0	15.0	17.5	15.5	10.5	10.0
28	4.0	2.0	10.5	7.0	17.5	14.0	17.0	15.5	16.5	15.0	11.5	9.5
29	4.0	1.5	10.5	7.0	18.0	15.0	17.0	16.5	15.0	13.5	11.5	9.5
30	4.0	1.5	11.0	7.5	18.5	15.5	17.0	16.5	15.0	14.0	11.5	10.0
31	---	---	11.0	8.0	---	---	18.0	17.0	15.0	14.0	---	---
MONTH	4.5	0.0	11.0	1.5	18.5	5.0	20.5	14.5	20.0	12.5	16.0	9.0

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 mile downstream from La Grange Dam, and 1.1 miles east of La Grange.

DRAINAGE AREA.--1,538 sq mi.

PERIOD OF RECORD.--Water temperatures: November 1970 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Minimum, 7.0°C Jan. 31, Feb. 1, 25, 26, Mar. 4.

Period of record:
Water temperatures: Minimum, 6.0°C Feb. 6-8, 10, 1971.

REMARKS.--No record June 2-6, July 18 to Aug. 9.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	9.0	15.0	9.5	18.5	13.5	20.5	15.0	---	---	22.5	18.5
2	10.0	8.5	15.0	10.0	---	---	21.0	15.5	---	---	21.5	18.5
3	10.0	8.5	15.5	11.5	---	---	20.5	15.0	---	---	21.5	18.5
4	10.0	9.0	16.0	11.0	---	---	19.5	16.0	---	---	20.0	18.5
5	9.5	9.0	15.5	11.0	---	---	20.5	16.0	---	---	19.5	18.0
6	10.0	9.0	16.0	11.0	---	---	21.5	16.0	---	---	20.0	17.0
7	10.0	9.0	18.0	10.5	17.5	13.0	20.5	15.0	---	---	20.5	17.0
8	10.5	9.5	16.5	11.5	17.5	13.0	20.0	15.0	---	---	20.0	17.5
9	10.0	9.5	15.0	11.0	16.0	13.0	20.5	16.0	---	---	21.0	17.5
10	10.5	9.5	16.0	11.0	16.5	12.0	20.0	16.0	22.5	18.0	20.0	17.5
11	10.5	9.5	18.0	11.5	17.0	12.5	20.5	16.0	21.0	18.0	19.0	16.5
12	10.0	9.5	17.0	12.0	18.0	12.5	22.5	16.5	21.5	17.5	19.0	16.0
13	10.5	9.0	17.5	12.5	18.5	14.0	22.0	17.0	21.5	17.5	19.5	16.0
14	10.5	8.5	19.0	13.0	19.5	14.5	24.0	17.5	20.0	16.5	19.5	15.5
15	11.0	9.5	19.0	13.5	19.5	14.0	24.0	17.5	20.0	16.5	20.0	16.5
16	11.0	9.5	16.0	13.5	18.5	14.0	21.5	17.0	20.0	16.5	20.5	16.5
17	11.0	10.0	16.0	12.0	19.5	13.0	21.0	17.5	20.5	17.5	20.5	17.0
18	11.0	9.5	16.0	12.0	19.5	14.0	---	---	21.5	17.5	19.5	17.5
19	11.0	10.0	13.5	12.0	18.5	14.5	---	---	21.5	18.0	20.0	17.5
20	11.0	9.5	13.5	11.5	20.5	14.0	---	---	22.0	18.0	20.5	17.0
21	11.0	9.5	17.0	12.0	17.5	14.0	---	---	21.5	18.5	21.5	17.5
22	11.0	9.5	16.0	12.0	16.5	14.0	---	---	22.0	18.0	20.5	17.5
23	11.0	9.5	16.5	12.0	19.0	13.5	---	---	23.0	18.5	19.5	17.5
24	11.0	9.5	15.5	11.5	17.0	13.0	---	---	23.0	18.0	19.0	16.5
25	10.5	9.0	16.5	12.0	18.0	14.0	---	---	21.5	19.0	19.0	16.5
26	10.5	9.0	18.0	12.0	18.0	14.5	---	---	21.5	18.5	18.5	16.5
27	10.0	9.5	17.5	12.0	19.0	14.5	---	---	21.5	19.0	19.0	16.5
28	10.5	9.5	19.5	13.0	19.0	14.5	---	---	21.5	19.5	18.0	15.5
29	10.5	9.5	17.0	13.0	19.5	14.0	---	---	21.5	18.0	18.0	16.0
30	10.5	9.5	19.5	13.5	21.0	14.5	---	---	21.5	18.0	17.5	16.0
31	---	---	18.5	13.5	---	---	---	---	23.0	18.5	---	---
MONTH	11.0	8.5	19.5	9.5	21.0	12.0	---	---	---	---	22.5	15.5

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 mile downstream from Dry Creek.

DRAINAGE AREA.--1,884 sq mi.

PERIOD OF RECORD.--Water temperatures: July 1965 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 31.5°C July 15; minimum, 7.0°C Feb. 3.

Period of record:
Water temperatures: Maximum (1965-67, 1968-72), 31.5°C July 15, 1972; minimum, 7.0°C Feb. 3, 1972.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	15.0	22.5	19.0	26.0	22.0	30.5	26.0	28.0	23.5	27.5	24.0
2	17.5	14.5	23.5	20.0	25.5	22.5	29.0	24.5	28.0	23.0	27.0	23.0
3	19.0	16.0	23.5	20.5	25.5	22.0	28.5	23.5	28.5	23.5	27.0	22.5
4	19.0	17.0	23.5	20.0	26.5	21.5	29.0	23.5	28.0	23.0	25.0	23.0
5	18.0	16.5	22.5	19.5	28.0	23.0	29.0	24.0	29.0	23.5	26.0	22.0
6	20.0	16.5	22.0	19.0	26.5	24.5	28.5	23.5	29.0	24.5	26.5	22.5
7	19.5	16.5	21.5	18.5	27.0	23.5	28.0	23.0	29.0	24.5	26.0	22.0
8	19.5	16.5	22.0	18.0	26.0	22.5	28.0	23.0	29.0	24.5	25.5	22.0
9	18.5	16.5	22.5	18.5	25.0	21.5	28.0	23.5	29.5	25.0	25.0	22.0
10	19.5	16.5	23.5	19.0	24.5	20.5	28.0	23.0	29.5	25.0	24.0	21.0
11	18.5	17.0	24.5	20.0	24.5	20.0	29.0	23.5	28.0	24.5	23.5	20.0
12	17.0	15.5	25.5	21.5	26.0	21.5	30.0	25.0	27.5	23.0	23.0	20.0
13	17.0	14.5	26.5	22.0	27.5	22.5	30.5	25.5	26.5	22.5	23.5	19.5
14	18.0	15.0	27.0	23.0	27.0	23.0	31.0	26.5	25.0	21.5	23.0	20.0
15	19.0	16.0	26.0	23.0	27.0	23.0	31.5	27.0	25.0	21.0	23.5	20.0
16	19.5	17.0	25.0	22.0	26.5	22.5	30.0	26.0	25.0	20.5	23.5	20.5
17	18.5	16.0	24.0	20.0	27.5	22.5	29.0	24.5	25.5	21.5	23.0	20.0
18	17.5	15.0	24.0	20.0	28.0	23.5	29.0	24.5	25.5	22.0	22.5	19.5
19	18.5	15.0	22.5	20.0	27.5	23.0	28.0	23.5	25.5	21.0	22.5	19.5
20	19.5	16.0	21.0	19.5	27.5	23.0	26.5	22.5	26.5	21.5	22.5	19.0
21	20.0	17.0	23.0	18.5	27.5	23.0	27.5	22.5	26.5	22.5	22.5	19.0
22	20.5	17.5	23.5	19.5	27.5	23.0	27.5	22.5	26.5	22.5	22.5	20.0
23	21.5	18.5	24.0	20.0	26.0	22.5	27.5	22.5	27.0	22.5	21.5	19.0
24	20.5	17.5	24.0	19.5	26.0	21.5	27.0	22.5	27.0	22.0	21.0	18.0
25	20.0	17.0	24.5	20.0	27.0	22.0	27.0	22.5	27.5	22.5	21.0	18.0
26	21.5	18.0	25.0	20.5	27.5	22.5	27.5	22.0	27.5	23.0	22.0	19.5
27	22.5	19.5	25.5	21.0	28.0	23.0	28.0	22.5	27.5	23.5	22.5	20.5
28	21.5	19.0	26.5	22.0	28.5	23.5	29.5	23.5	27.0	23.0	23.0	20.0
29	20.0	17.0	26.0	22.5	29.0	23.5	29.0	24.5	28.0	23.5	23.0	20.0
30	21.5	17.5	26.5	22.5	30.5	25.0	28.5	25.0	28.0	24.0	22.0	20.0
31	---	---	25.5	22.0	---	---	28.0	23.5	28.5	24.5	---	---
MONTH	22.5	14.5	27.0	18.0	30.5	20.0	31.5	22.0	29.5	20.5	27.5	18.0

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 upstream from Donnell powerhouse, 800 ft downstream from Hells Half Acre Bridge, 1.1 miles upstream from Cow Creek, and 4.7 miles northwest of Pinecrest.
DRAINAGE AREA.--287 sq mi.
PERIOD OF RECORD.--Water temperatures: October 1965 to September 1972.
EXTREMES, 1971-72:
Water temperatures: Maximum, 22.5°C Aug. 10; minimum, freezing point on many days during December to February.
Period of record:
Water temperatures: Maximum (1966-72), 22.5°C Aug. 10, 1972; minimum, freezing point on many days during winter period each year.
REMARKS.--Clock stopped Feb. 9-14, Mar. 3-8, May 15-23, June 17 to July 5, Aug. 29 to Sept. 30; range in temperature, 1.5°C to 4.5°C, 3.0°C to 13.5°C, 10.5°C to 17.5°C, 16.5°C to 20.5°C, and 10.5°C to 20.5°C, respectively.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	9.0	7.0	5.0	3.5	2.0	2.5	1.0	1.5	0.0	5.0	3.0
2	12.5	9.0	8.0	5.0	3.0	1.0	2.5	1.0	1.5	0.0	5.5	4.5
3	13.0	10.0	8.0	5.5	1.0	0.5	2.0	1.0	1.5	0.0	---	---
4	14.0	10.5	8.5	6.0	2.0	0.5	1.5	0.0	1.5	0.0	---	---
5	14.5	11.5	8.0	6.0	2.5	1.0	1.5	0.0	1.5	0.5	---	---
6	14.5	11.5	8.5	6.5	3.0	1.5	2.0	0.5	2.5	0.5	---	---
7	15.0	12.0	8.0	6.0	2.0	0.0	2.0	1.0	3.0	1.0	---	---
8	15.0	12.0	7.5	5.5	1.5	0.0	2.0	0.5	3.0	1.5	---	---
9	15.0	12.5	7.5	6.0	1.0	0.0	2.0	0.5	---	---	12.5	9.5
10	14.5	12.5	7.5	5.5	1.5	0.0	2.0	0.5	---	---	13.0	10.0
11	14.5	12.0	8.0	7.0	1.5	0.0	2.0	0.5	---	---	13.0	10.0
12	15.0	12.0	7.5	5.0	1.5	0.0	2.0	1.0	---	---	12.0	10.0
13	14.5	12.0	5.0	3.5	1.5	0.0	2.5	1.0	---	---	13.0	10.0
14	14.0	11.0	4.5	3.0	1.5	0.0	3.5	2.0	---	---	13.0	9.5
15	12.0	9.0	4.0	2.5	1.5	0.0	3.0	1.5	4.5	2.0	13.0	9.5
16	9.0	7.5	4.0	2.0	1.0	0.0	3.5	1.5	4.5	2.0	13.5	10.0
17	7.5	6.5	4.5	2.5	1.5	0.0	3.5	2.0	4.5	2.0	13.5	10.0
18	9.5	6.5	4.5	2.5	2.0	0.5	4.0	2.0	5.0	2.5	13.0	9.5
19	9.5	7.0	4.0	2.0	2.0	1.0	5.0	3.0	6.0	3.5	13.0	9.5
20	10.5	8.5	4.5	2.5	2.5	1.0	5.0	3.5	6.0	3.5	13.5	9.5
21	11.0	8.0	5.0	3.0	2.0	1.0	4.5	3.0	5.0	4.0	13.0	10.5
22	10.5	8.5	5.0	3.0	3.0	2.0	5.0	3.5	5.5	4.5	11.5	8.0
23	9.5	8.5	5.5	3.5	3.5	2.5	5.0	3.0	4.5	4.0	11.0	7.5
24	9.5	8.5	5.5	4.0	4.0	3.0	3.0	1.5	4.0	3.5	12.0	9.0
25	10.0	8.0	5.5	4.0	4.0	1.0	2.5	1.0	6.0	4.0	12.5	9.0
26	9.5	7.5	5.0	4.0	2.0	1.0	1.5	0.5	6.5	4.0	10.5	7.5
27	9.5	8.0	6.0	5.0	2.0	1.5	1.0	0.0	7.0	4.0	10.0	7.5
28	8.0	5.0	5.5	4.5	2.5	1.5	1.0	0.0	5.5	4.5	10.5	7.0
29	6.5	4.0	5.0	3.5	2.5	1.0	2.0	0.0	6.5	4.5	11.0	7.0
30	5.5	4.0	4.5	2.5	2.0	0.5	1.5	0.0	---	---	12.0	7.5
31	7.0	5.0	---	---	2.0	0.5	1.5	0.0	---	---	11.5	9.5
MONTH	15.0	4.0	8.5	2.0	4.0	0.0	5.0	0.0	7.0	0.0	13.5	3.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.5	16.0	12.0	20.5	17.5	---	---	20.5	16.5	---	---
2	14.0	10.0	16.0	12.0	21.0	17.5	---	---	20.5	16.0	---	---
3	13.5	10.5	15.5	12.5	20.5	17.0	---	---	20.5	16.0	---	---
4	13.0	11.5	16.5	12.5	20.5	17.0	---	---	20.5	16.5	---	---
5	12.0	11.5	16.5	12.5	20.5	17.0	---	---	21.0	16.5	---	---
6	13.5	10.0	16.0	12.5	20.0	17.5	21.0	16.5	20.5	16.0	---	---
7	13.5	10.0	15.0	12.0	19.5	17.5	19.0	15.0	21.5	17.5	---	---
8	13.0	9.5	16.0	12.5	19.5	17.0	19.0	14.5	21.5	17.5	---	---
9	12.5	10.0	14.5	11.5	18.0	15.5	19.0	14.5	22.0	17.5	---	---
10	13.0	11.0	15.5	12.0	16.5	15.0	19.0	14.5	22.5	18.5	---	---
11	12.0	8.5	16.5	12.5	19.0	14.0	19.5	15.0	22.0	18.0	---	---
12	9.0	7.5	17.0	13.5	19.5	15.5	20.5	15.5	21.0	17.0	---	---
13	10.5	6.5	17.5	13.5	19.5	16.0	21.0	16.5	20.5	16.0	---	---
14	12.0	7.0	18.0	14.5	20.5	16.0	21.5	17.0	19.5	15.0	---	---
15	13.5	9.0	17.5	14.5	20.5	16.5	22.0	17.0	18.5	14.0	---	---
16	13.0	10.0	---	---	21.0	16.5	22.0	18.0	17.5	13.5	---	---
17	13.0	9.5	---	---	---	---	22.0	17.5	18.0	13.5	---	---
18	11.5	8.5	---	---	---	---	21.5	17.5	18.5	14.5	---	---
19	11.5	7.5	---	---	---	---	21.0	17.0	19.0	15.0	---	---
20	13.0	8.0	---	---	---	---	20.5	16.5	19.0	15.0	---	---
21	14.0	10.0	---	---	---	---	19.5	15.5	19.0	15.0	---	---
22	14.0	10.5	---	---	---	---	20.0	15.5	19.0	15.0	---	---
23	14.5	10.5	---	---	---	---	20.0	15.5	19.0	15.0	---	---
24	13.0	10.0	17.5	13.5	---	---	19.5	15.5	19.0	15.0	---	---
25	13.0	9.0	18.5	14.5	---	---	19.5	15.5	19.5	15.5	---	---
26	15.0	10.5	19.0	15.0	---	---	19.5	15.0	19.5	15.5	---	---
27	15.5	11.5	20.0	16.5	---	---	20.0	15.5	19.5	16.0	---	---
28	15.5	11.5	21.0	17.5	---	---	20.5	15.5	18.5	16.5	---	---
29	14.5	10.5	20.5	17.0	---	---	20.0	16.5	---	---	---	---
30	15.0	11.0	21.0	17.5	---	---	20.0	17.5	---	---	---	---
31	---	---	21.5	17.5	---	---	21.5	17.0	---	---	---	---
MONTH	15.5	6.5	---	---	---	---	22.0	14.5	22.5	13.5	---	---

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 mile downstream from gaging station, 4.0 miles southeast of Hathaway Pines, and 4.6 miles east of Murphys.

DRAINAGE AREA.--629 sq mi (at gaging station).

PERIOD OF RECORD.--Water temperatures: February 1970 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 19.5°C July 3; minimum, 2.5°C Feb. 1-3.

Period of record:
Water temperatures: Maximum, 19.5°C July 3, 1972; minimum, 2.5°C Feb. 1-3, 1972.

REMARKS.--Clock stopped Oct. 10-19, Nov. 5-24, range in temperature, 11.0°C to 12.5°C and 7.5°C to 12.5°C, respectively. No record Sept. 8-14.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	12.5	7.5	7.0	9.5	8.5	4.0	3.0	4.0	2.5	7.5	5.5
2	13.5	12.5	7.5	6.5	9.0	8.0	4.5	3.5	3.5	2.5	7.5	6.5
3	14.0	12.5	8.0	6.5	8.5	7.0	4.5	3.0	3.5	2.5	8.0	7.0
4	15.0	12.5	8.5	7.0	8.5	7.0	5.0	3.5	4.5	4.0	8.0	6.5
5	14.5	12.5	---	---	8.0	6.0	4.5	3.5	5.0	4.5	8.0	6.5
6	14.0	12.5	---	---	8.0	6.5	4.5	3.0	6.0	5.0	8.0	7.0
7	14.0	12.5	---	---	8.0	6.0	4.5	3.5	6.0	5.0	8.0	7.0
8	14.0	12.5	---	---	7.5	6.0	4.5	3.5	5.5	5.0	8.5	7.0
9	14.5	13.0	---	---	7.0	5.5	4.5	3.5	5.5	5.0	9.0	7.0
10	---	---	---	---	7.5	6.5	4.5	3.5	6.0	5.0	8.5	7.5
11	---	---	---	---	7.5	6.0	4.5	3.0	6.0	5.0	8.5	7.5
12	---	---	---	---	7.0	6.0	5.0	4.0	5.5	5.0	8.5	7.5
13	---	---	---	---	6.5	5.0	4.5	4.0	6.0	5.0	8.5	7.5
14	---	---	---	---	6.5	3.0	4.5	4.0	6.0	5.5	8.5	7.0
15	---	---	---	---	6.5	4.5	4.5	4.0	6.0	5.5	8.5	7.0
16	---	---	---	---	6.0	3.0	4.5	4.0	6.0	5.0	9.0	7.5
17	---	---	---	---	6.0	4.0	4.0	4.0	5.5	5.0	9.0	7.0
18	---	---	---	---	6.5	5.5	4.5	4.0	6.0	5.0	8.5	6.5
19	---	---	---	---	6.5	5.0	5.0	4.0	7.0	6.0	8.0	7.0
20	13.5	12.0	---	---	6.5	4.5	5.5	5.0	7.5	6.5	8.0	7.0
21	13.5	13.0	---	---	6.0	4.5	5.5	5.0	7.5	6.5	8.5	7.5
22	13.5	13.0	---	---	6.5	3.5	5.5	5.0	8.0	6.5	8.0	6.0
23	13.5	13.0	---	---	6.0	3.5	5.5	5.0	7.0	6.0	7.0	5.0
24	13.0	12.5	---	---	6.5	5.0	5.0	4.0	6.0	5.5	8.0	6.5
25	13.5	12.5	11.0	10.5	6.5	5.5	4.5	4.0	7.0	6.0	8.5	7.0
26	13.0	10.0	11.0	10.0	5.5	4.5	4.0	3.5	7.5	6.5	7.0	5.5
27	11.0	9.5	11.0	10.5	5.0	4.0	4.0	3.5	8.0	7.0	7.0	5.0
28	10.0	8.0	11.0	10.0	5.5	4.5	4.0	3.5	8.0	7.0	6.5	5.5
29	8.0	7.0	10.5	9.5	5.0	4.0	4.5	3.5	8.0	7.5	7.5	6.0
30	7.5	7.0	10.0	9.0	4.5	3.5	4.5	4.0	---	---	8.0	6.0
31	8.0	7.0	---	---	4.5	3.5	4.5	3.5	---	---	8.0	7.0
MONTH	---	---	---	---	9.5	3.0	5.5	3.0	8.0	2.5	9.0	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.5	11.5	9.0	15.5	12.5	16.5	13.0	16.0	13.5	15.5	14.5
2	9.0	7.0	11.5	9.0	15.5	12.5	16.0	14.0	15.0	13.0	16.5	14.5
3	9.5	8.0	11.5	9.5	14.5	12.0	19.5	13.5	15.0	13.5	15.0	13.5
4	9.0	8.0	11.5	9.5	14.5	12.0	15.5	13.0	14.5	13.5	14.5	11.5
5	9.0	7.0	11.5	9.5	15.5	11.5	15.0	13.0	16.5	13.5	13.0	12.0
6	8.0	6.5	11.5	9.5	15.5	12.5	14.5	13.0	15.5	13.5	15.0	13.0
7	8.5	7.0	11.0	9.0	16.0	13.0	16.5	13.0	17.5	13.5	15.0	14.5
8	8.5	7.0	11.0	9.5	16.0	12.5	16.5	13.0	16.5	13.5	---	---
9	8.0	7.5	11.0	9.5	14.0	12.0	16.5	14.0	16.0	13.5	---	---
10	9.5	8.0	11.5	10.0	14.0	11.0	16.0	13.0	15.0	13.5	---	---
11	8.5	7.5	12.0	10.0	16.0	11.5	16.5	13.0	15.5	13.0	---	---
12	7.5	6.5	12.5	10.5	15.0	12.5	16.5	13.0	17.0	13.5	---	---
13	7.0	6.0	13.0	10.5	16.0	13.0	18.0	13.0	15.5	13.5	---	---
14	8.5	6.5	13.0	11.0	16.5	13.5	15.0	13.5	17.0	13.5	---	---
15	9.5	8.0	13.0	10.5	17.0	13.5	16.5	13.5	15.5	13.0	16.0	14.0
16	9.5	8.5	12.5	10.5	16.0	13.5	18.5	14.0	16.0	13.0	16.0	14.0
17	9.5	8.0	12.0	10.5	16.5	13.5	16.0	14.0	16.0	13.5	16.0	14.0
18	9.0	7.5	12.0	10.5	16.5	13.5	16.0	14.0	16.0	14.0	15.5	14.0
19	8.5	6.5	11.5	9.5	16.5	14.0	17.5	14.0	15.5	14.0	15.0	14.0
20	9.0	7.5	9.5	8.5	16.5	14.0	17.5	14.0	16.5	14.0	15.0	14.0
21	10.5	8.5	10.0	9.0	16.5	13.5	16.5	13.5	16.5	14.0	15.5	14.0
22	10.0	8.5	12.0	9.0	16.5	14.0	16.5	13.5	16.0	14.0	15.5	13.5
23	10.5	9.0	12.5	10.0	16.0	13.0	17.0	14.0	16.5	14.0	15.0	14.0
24	9.0	8.0	13.0	11.0	16.0	13.0	17.0	14.0	16.5	14.0	15.0	13.5
25	9.5	7.0	13.5	11.0	15.5	13.0	16.5	13.5	17.0	14.5	14.5	13.5
26	11.0	8.5	14.5	12.0	16.0	13.0	17.0	13.5	17.0	14.5	15.0	14.0
27	11.0	10.0	15.5	12.5	16.0	13.5	16.5	13.5	17.0	14.5	15.5	14.5
28	10.0	9.0	15.0	14.5	15.5	13.5	16.5	13.5	16.5	15.0	17.5	14.0
29	10.0	8.0	16.5	13.0	15.5	13.5	16.5	13.5	18.0	14.5	15.0	14.0
30	10.5	8.5	15.5	13.0	17.0	13.5	16.0	13.5	16.5	15.0	15.0	13.5
31	---	---	15.5	13.0	---	---	16.0	13.5	16.5	14.5	---	---
MONTH	11.0	6.0	16.5	8.5	17.0	11.0	19.5	13.0	18.0	13.0	---	---

11299997 STANISLAUS RIVER BELOW TULLOCH POWERPLANT, NEAR KNIGHTS FERRY, CALIF.

LOCATION.--Lat 37°52'34", long 120°36'15", T.1 S., R.12 E., in Rancheria del Rio Estanislao Grant, on Calaveras-Tuolumne County line, in south corner of Tulloch powerplant at downstream side of Tulloch Dam, and 5.2 miles northeast of Knights Ferry.

DRAINAGE AREA.--980 sq mi.

PERIOD OF RECORD.--Water temperatures: June to September 1972.

TEMPERATURE (°C) OF WATER, JUNE TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	16.0	16.0	19.5	19.5	21.5	21.5
2	---	---	---	---	---	---	16.0	16.0	19.5	19.5	22.0	21.5
3	---	---	---	---	---	---	16.5	16.0	19.5	19.5	22.0	21.5
4	---	---	---	---	---	---	16.5	16.5	20.0	19.5	22.0	22.0
5	---	---	---	---	---	---	16.5	16.5	20.0	19.5	22.0	22.0
6	---	---	---	---	---	---	16.5	16.5	20.0	20.0	22.0	21.5
7	---	---	---	---	---	---	17.0	16.5	20.0	20.0	22.0	21.5
8	---	---	---	---	---	---	17.0	17.0	20.5	20.0	22.0	21.5
9	---	---	---	---	---	---	17.0	17.0	20.5	20.5	22.0	21.5
10	---	---	---	---	---	---	17.0	17.0	20.5	20.5	22.0	21.5
11	---	---	---	---	---	---	17.0	17.0	21.0	20.5	21.5	21.5
12	---	---	---	---	---	---	17.5	17.0	21.0	21.0	21.5	21.5
13	---	---	---	---	---	---	17.5	17.5	21.0	21.0	21.5	21.0
14	---	---	---	---	---	---	17.5	17.5	21.0	21.0	21.5	21.0
15	---	---	---	---	---	---	17.5	17.0	21.5	21.0	21.0	21.0
16	---	---	---	---	---	---	17.5	17.5	21.5	21.5	21.0	20.5
17	---	---	---	---	---	---	18.0	17.5	21.5	21.5	21.0	20.5
18	---	---	---	---	---	---	18.0	18.0	21.5	21.5	20.5	20.5
19	---	---	---	---	---	---	18.0	18.0	21.5	21.5	20.5	20.5
20	---	---	---	---	---	---	18.0	18.0	21.5	21.5	20.5	20.5
21	---	---	---	---	---	---	18.0	18.0	21.5	21.5	20.5	20.0
22	---	---	---	---	---	---	18.0	18.0	22.0	21.5	20.5	20.0
23	---	---	---	---	---	---	18.5	18.0	22.0	21.5	20.0	20.0
24	---	---	---	---	---	---	18.5	18.5	22.0	21.5	20.0	19.5
25	---	---	---	---	---	---	18.5	18.5	21.5	21.5	20.0	19.5
26	---	---	---	---	---	---	18.5	18.5	21.5	21.5	19.5	19.5
27	---	---	---	---	15.5	15.5	19.0	18.5	21.5	21.5	19.5	19.0
28	---	---	---	---	15.5	15.5	19.0	18.5	21.5	21.5	19.5	19.0
29	---	---	---	---	16.0	15.5	19.0	19.0	21.5	21.5	19.5	19.0
30	---	---	---	---	16.0	16.0	19.0	19.0	21.5	21.5	19.5	19.0
31	---	---	---	---	---	---	19.5	19.0	21.5	21.5	---	---
MONTH	---	---	---	---	---	---	19.5	16.0	22.0	19.5	22.0	19.0

11302000 STANISLAUS RIVER BELOW GOODWIN DAM, NEAR KNIGHTS FERRY, CALIF.

LOCATION.--Lat 37°51'06", long 120°38'13", in Rancheria Del Rio Estanislao Grant, Calaveras County, temperature recorder at gaging station on right bank, 250 ft upstream from Owl Creek, 0.9 mile downstream from Goodwin Dam, and 2.9 miles northeast of Knights Ferry.

DRAINAGE AREA.--986 sq mi.

PERIOD OF RECORD.--Water temperatures: February 1966 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 27.0°C Aug. 31; minimum, 5.5°C Feb. 3.

Period of record:
Water temperatures: Maximum, 27.0°C Aug. 31, 1972; minimum (1966-68, 1969-72), 5.5°C Feb. 3, 1972.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.
(International Hydrological Decade River and pesticide 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 downstream from Durham Ferry highway bridge, 2.6 miles downstream from Stanislaus River, and 3.2 miles northeast of Vernalis.

DRAINAGE AREA.--13,536 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1950 to September 1972.
Water temperatures: March 1951 to September 1972.
Sediment records: November 1956 to September 1972.
Turbidity: July to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 27.0°C July 1, 13, 14; minimum, 5.5°C Dec. 17, Jan. 8, 18, Feb. 1, 4.
Sediment concentrations: Maximum daily, 242 mg/l June 30; minimum daily, 10 mg/l Nov. 4.
Sediment discharge: Maximum daily, 1,330 tons Dec. 27; minimum daily, 40 tons Nov. 4.

Period of record:
Water temperatures: Maximum, 30.0°C July 7, 1970; minimum, 3.0°C Jan. 24, 1962.
Sediment concentrations (1956-72): Maximum daily, 1,590 mg/l Dec. 25, 1964; minimum daily, 9 mg/l Jan. 4, 1960, Nov. 18, 1961.
Sediment discharge (1956-72): Maximum daily, 54,100 tons Dec. 25, 1964; minimum daily, 2 tons Aug. 10, 1961.

REMARKS.--Chemical-quality samples collected by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.										
14...	1500	2410	19	20	23	11	47	2.6	99	0
NOV.										
17...	1500	1550	21	20	32	16	76	2.9	129	0
DEC.										
15...	1700	2170	17	30	26	13	60	2.2	96	0
JAN.										
12...	1520	3480	16	20	20	9.3	42	2.8	78	0
FEB.										
16...	1500	2790	18	20	32	15	75	2.5	107	0
MAR.										
15...	1140	1360	23	10	39	18	84	3.9	129	0
APR.										
12...	1215	1110	24	20	50	26	110	4.3	174	0
JUNE										
23...	0745	512	13	40	62	30	140	5.0	204	3
JULY										
20...	0845	392	21	30	60	31	130	5.5	202	0
AUG.										
10...	1100	470	15	10	58	29	130	6.2	209	0
SEP.										
21...	0830	2190	16	80	21	8.9	41	3.1	96	0

DATE	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)	TOTAL 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)
OCT.										
14...	81	30	66	.1	1.3	.28	254	.35	1650	100
NOV.										
17...	106	58	100	.1	1.2	.21	375	.51	1570	150
DEC.										
15...	79	52	84	.0	.85	.15	306	.42	1790	120
JAN.										
12...	64	49	53	.1	.70	.12	234	.32	2200	88
FEB.										
16...	88	80	91	.2	1.2	.17	372	.51	2800	140
MAR.										
15...	106	88	120	.2	1.4	.28	447	.61	1640	170
APR.										
12...	143	98	160	.3	1.8	.44	567	.77	1700	230
JUNE										
23...	172	110	220	.2	.22	.51	686	.93	948	280
JULY										
20...	166	100	230	.3	.79	.42	681	.93	721	280
AUG.										
10...	171	100	220	.3	.61	.43	665	.90	844	260
SEP.										
21...	79	25	54	.2	.64	.30	220	.30	1300	89

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)	DISSOLVED LITHIUM (LI) (UG/L)	DISSOLVED STRONTIUM (SR) (UG/L)
OCT.										
14...	22	49	2.0	445	7.1	10.5	20	130	60	320
NOV.										
17...	44	47	2.7	664	7.4	10.5	8	50	10	430
DEC.										
15...	40	52	2.4	531	7.4	--	6	190	10	430
JAN.										
12...	24	50	1.9	387	7.5	6.5	10	170	0	260
FEB.										
16...	54	53	2.7	675	7.7	12.0	10	380	10	400
MAR.										
15...	66	51	2.8	761	7.8	18.5	30	360	10	500
APR.										
12...	89	50	3.1	991	7.3	17.0	40	390	10	610
JUNE										
23...	110	52	3.7	1240	8.4	21.0	60	430	20	750
JULY										
20...	110	50	3.4	1260	7.7	22.0	90	420	10	250
AUG.										
10...	93	51	3.5	1200	8.2	27.0	90	440	20	760
SEP.										
21...	10	49	1.9	400	7.0	19.0	30	130	0	220

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
14...	1500	2410	500	7.5	10.5	10.0
NOV.						
17...	1500	1550	750	7.4	10.5	10.0
DEC.						
15...	1700	2170	531	7.3	--	10.7
JAN.						
12...	1520	3480	450	7.2	6.5	--
FEB.						
16...	1500	2790	700	7.6	12.0	11.0
MAR.						
15...	1140	1360	760	7.5	18.5	9.2
APR.						
12...	1215	1110	1000	7.6	17.0	10.1
JUNE						
23...	0745	512	1240	8.4	21.0	9.0
JULY						
20...	0845	392	1250	8.2	22.0	8.5
AUG.						
10...	1100	470	1080	8.2	27.0	10.9
SEP.						
21...	0830	2190	280	7.3	19.0	6.4

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	ALDRIN IN FILT. FRAC. (UG/L)	ALDRIN IN SUSP. FRAC. (UG/L)	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE IN FILT. FRAC. (UG/L)	CHLOR-DANE IN SUSP. FRAC. (UG/L)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD IN FILT. FRAC. (UG/L)	DDD IN SUSP. FRAC. (UG/L)
FEB.												
08...	1238	3170	.00	--	--	--	.0	--	--	--	.00	--
APR.												
10...	1400	1340	.00	.00	.00	<.2	.0	.0	.0	<1	.00	.00
JULY												
05...	1245	505	.00	.00	.00	<.2	.0	.0	.0	<1	.00	.00

DATE	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE IN FILT. FRAC. (UG/L)	DDE IN SUSP. FRAC. (UG/L)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT IN FILT. FRAC. (UG/L)	DDT IN SUSP. FRAC. (UG/L)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON IN FILT. FRAC. (UG/L)	DI-AZINON IN SUSP. FRAC. (UG/L)
FEB.												
08...	--	--	.00	--	--	--	.00	--	--	--	.02	--
APR.												
10...	.00	<.2	.00	.00	.00	<.2	.00	.00	.00	3.0	.03	--
JULY												
05...	.00	<.2	.00	.02	.02	<.2	.00	.00	.00	<.2	.00	.01

DATE	DI-AZINON (UG/L)	DI-ELDRIN IN FILT. FRAC. (UG/L)	DI-ELDRIN IN SUSP. FRAC. (UG/L)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN IN FILT. FRAC. (UG/L)	ENDRIN IN SUSP. FRAC. (UG/L)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR IN FILT. FRAC. (UG/L)	HEPTA-CHLOR IN SUSP. FRAC. (UG/L)	HEPTA-CHLOR (UG/L)
FEB.												
08...	--	.00	--	--	--	.00	--	--	--	.00	--	--
APR.												
10...	--	.00	.01	.01	9.4	.00	.00	.00	<.2	.00	.00	.00
JULY												
05...	.01	.01	.00	.01	<.2	.00	.00	.00	<.2	.00	.00	.00

DATE	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE IN FILT. FRAC. (UG/L)	HEPTA-CHLOR EPOXIDE IN SUSP. FRAC. (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE IN FILT. FRAC. (UG/L)	LINDANE IN SUSP. FRAC. (UG/L)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION IN FILT. FRAC. (UG/L)	MALA-THION IN SUSP. FRAC. (UG/L)	MALA-THION (UG/L)
FEB.												
08...	--	.00	--	--	--	.00	--	--	--	.00	--	--
APR.												
10...	<.2	.00	.00	.00	<.2	.00	.00	.00	<.2	.00	--	--
JULY												
05...	<.2	.00	.00	.00	<.2	.00	.00	.00	<.2	.00	.00	.00

DATE	METHYL PARA-THION IN FILT. FRAC. (UG/L)	METHYL PARA-THION IN SUSP. FRAC. (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION IN FILT. FRAC. (UG/L)	PARA-THION IN SUSP. FRAC. (UG/L)	PARA-THION (UG/L)	PCB IN FILT. FRAC. (UG/L)	PCB IN SUSP. FRAC. (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	2,4-D IN FILT. FRAC. (UG/L)
FEB.											
08...	.00	--	--	.00	--	--	.0	--	--	--	.03
APR.											
10...	.00	--	--	.00	--	--	.0	.0	.0	<2	.00
JULY											
05...	.00	.00	.00	.00	.00	.00	.0	.0	.0	<2	.00

DATE	2,4-D IN SUSP. FRAC. (UG/L)	2,4-D (UG/L)	2,4,5-T IN FILT. FRAC. (UG/L)	2,4,5-T IN SUSP. FRAC. (UG/L)	2,4,5-T (UG/L)	SILVEX IN FILT. FRAC. (UG/L)	SILVEX IN SUSP. FRAC. (UG/L)	SILVEX (UG/L)
FEB.								
08...	.00	.03	.00	.00	.00	.00	.00	.00
APR.								
10...	.00	.00	.00	.00	.00	.00	.00	.00
JULY								
05...	.00	.00	.00	.00	.00	.00	.00	.00

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.0	13.0	11.5	7.5	5.5	14.0	15.0	18.0	22.0	27.0	24.5	24.5
2	15.0	12.0	10.5	6.0	7.0	16.5	14.0	20.0	21.5	23.5	23.0	23.0
3	18.5	12.0	11.5	7.0	7.0	15.5	18.0	20.0	20.0	23.5	23.0	23.0
4	16.0	13.5	10.5	6.5	5.5	14.0	18.0	21.0	20.5	22.5	23.0	23.0
5	15.5	12.5	8.0	---	7.0	14.5	18.0	18.5	24.0	23.0	24.0	23.0
6	20.0	13.0	10.0	7.0	8.5	15.0	18.0	18.0	25.0	22.5	23.5	23.0
7	18.0	12.0	9.0	9.0	10.0	16.5	17.0	18.0	22.5	22.5	25.5	22.5
8	16.0	13.5	7.0	5.5	10.0	16.0	16.0	18.0	22.5	22.0	25.0	22.5
9	18.0	13.5	8.0	8.5	10.0	17.0	15.0	17.5	22.0	22.0	25.5	22.0
10	19.0	12.0	7.0	6.5	10.5	17.5	16.0	18.5	20.5	22.0	25.5	21.0
11	20.0	13.0	8.0	6.5	10.0	16.0	17.0	22.0	20.5	25.0	24.5	20.5
12	20.0	14.0	7.0	8.0	9.5	16.0	15.0	21.5	21.5	24.5	23.5	19.5
13	20.0	12.0	8.0	7.5	10.0	16.0	13.0	22.5	22.5	27.0	23.5	19.0
14	20.0	14.5	7.5	8.5	11.0	16.0	13.5	19.0	24.0	27.0	21.5	19.0
15	18.0	10.5	8.0	7.0	12.0	16.0	16.0	22.5	23.0	25.0	20.5	19.0
16	16.0	11.0	7.0	6.5	10.5	18.0	---	21.5	23.0	25.0	20.5	19.0
17	15.0	10.5	5.5	7.5	11.5	18.0	---	19.5	22.0	24.0	22.0	19.0
18	14.0	10.5	7.5	5.5	12.0	16.0	---	19.0	23.0	23.0	23.0	18.0
19	18.0	10.0	6.5	8.0	16.0	15.0	---	19.0	23.0	23.5	22.0	19.0
20	14.0	9.0	8.0	8.0	18.0	16.0	---	18.0	23.5	22.5	23.0	19.0
21	15.0	---	7.5	10.0	13.0	17.0	---	18.0	22.0	23.0	23.5	21.0
22	15.0	11.0	7.5	8.5	16.0	16.0	---	18.0	23.0	23.0	23.0	20.0
23	16.0	11.0	8.0	9.0	13.0	15.0	---	20.0	23.0	23.0	23.0	21.5
24	15.5	10.5	8.5	9.0	13.0	16.0	---	19.0	21.0	23.0	23.0	20.0
25	13.5	10.5	7.5	9.5	13.0	15.0	---	20.0	22.0	22.5	24.0	19.0
26	13.0	11.0	9.0	8.0	14.0	13.0	18.0	20.5	23.0	23.0	24.0	20.0
27	13.5	10.0	8.5	8.0	13.0	15.0	20.0	20.0	23.5	23.0	24.5	20.0
28	13.0	---	9.5	7.5	14.0	14.0	20.0	22.0	23.0	25.0	22.0	20.0
29	10.0	13.0	8.5	7.5	14.0	14.0	15.5	22.0	25.0	24.0	24.0	20.0
30	10.0	13.0	9.0	8.5	---	14.0	15.0	23.0	24.5	25.5	24.0	21.0
31	13.0	---	7.0	7.5	---	14.5	---	22.5	---	24.0	25.5	---
MONTH	16.0	12.0	8.5	7.5	11.0	15.5	---	20.0	22.5	23.5	23.5	20.5

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1580	53	226	1610	25	109	1860	47	236
2	1640	48	213	1450	12	47	1840	30	149
3	1790	40	193	1430	11	42	1860	24	121
4	1930	57	297	1470	10	40	1880	24	122
5	1920	59	306	1490	18	72	1880	28	142
6	2020	59	322	1500	20	81	1890	35	179
7	2010	51	277	1440	22	86	1890	22	112
8	2080	57	320	1440	18	70	1880	22	112
9	2210	104	621	1470	16	64	1900	21	108
10	2440	77	507	1510	19	77	1910	23	119
11	2540	59	405	1550	27	113	2050	25	138
12	2510	58	393	1570	37	157	2130	32	184
13	2580	68	474	1580	26	111	2150	34	197
14	2420	64	418	1560	19	80	2140	37	214
15	2620	72	509	1550	14	59	2160	43	251
16	2960	74	591	1550	15	63	2330	37	233
17	3590	95	921	1550	16	67	2440	34	224
18	3610	63	614	1550	16	67	2470	34	227
19	3500	50	473	1540	26	108	2480	36	241
20	2700	51	372	1660	32	143	2470	29	193
21	2140	26	150	1890	40	204	2370	26	166
22	1940	51	267	1980	35	187	2200	22	131
23	1690	47	214	2050	28	155	2150	22	128
24	1930	38	198	1910	28	144	2190	65	384
25	2070	40	224	1820	29	143	2540	67	459
26	2010	40	217	1830	25	124	3150	135	1150
27	1970	45	239	1860	29	146	3400	145	1330
28	1960	48	254	1860	32	161	3430	109	1010
29	1930	33	172	1860	32	161	3720	85	854
30	1860	25	126	1860	25	126	3860	100	1040
31	1680	25	113	--	--	--	3730	77	775
TOTAL	69830	--	10626	49390	--	3207	74350	--	10929

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	3600	105	1020	2860	44	340	1400	45	170
2	3370	105	955	2950	41	327	1460	50	197
3	3260	62	546	3300	50	446	1500	64	259
4	3170	74	633	3380	43	392	1460	54	213
5	3370	70	637	3340	49	442	1310	37	131
6	3390	14	128	3330	60	539	1240	47	157
7	3420	55	508	3230	66	576	1260	57	194
8	3480	100	940	3190	76	655	1250	57	192
9	3470	69	646	3390	71	650	1260	60	204
10	3370	54	491	3530	82	782	1410	71	270
11	3320	49	439	3640	76	747	1630	92	405
12	3460	45	420	3650	66	650	1600	79	341
13	3410	25	230	3220	63	548	1520	72	295
14	3340	38	343	2790	61	460	1420	72	276
15	3000	36	292	2660	70	503	1370	73	270
16	2870	39	302	2770	65	486	1350	71	259
17	2810	38	288	2750	64	475	1380	86	320
18	2800	38	287	2690	53	385	1370	73	270
19	2830	42	321	2620	55	389	1370	73	270
20	2920	52	410	2480	54	362	1390	77	289
21	2920	68	536	2200	47	279	1390	77	289
22	2900	67	525	1960	51	270	1440	92	358
23	2860	67	517	1880	47	239	1560	87	366
24	2820	66	503	1910	50	258	1490	69	278
25	2810	57	432	1980	53	283	1470	64	254
26	2840	58	445	1920	45	233	1390	67	251
27	2860	51	394	1840	50	248	1280	51	176
28	2870	55	426	1530	43	178	1160	55	172
29	3020	51	416	1350	34	124	1170	70	221
30	3110	65	546	--	--	--	1240	74	248
31	2950	52	414	--	--	--	1230	96	319
TOTAL	96620	--	14990	78340	--	12266	42770	--	7914

	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	1230	82	272	880	123	292	596	170	274
2	1370	93	344	780	121	255	556	133	200
3	1290	102	355	780	111	234	516	134	187
4	1130	120	366	748	103	208	568	140	215
5	1080	114	332	698	131	247	636	145	249
6	1240	118	395	716	125	242	620	149	249
7	1290	100	348	815	129	284	572	174	269
8	1250	98	331	845	121	276	572	178	275
9	1210	98	320	865	122	285	588	154	244
10	1280	96	332	870	142	334	644	180	313
11	1100	86	255	860	131	304	667	172	310
12	1110	85	255	850	124	285	752	186	378
13	1170	74	234	785	129	273	694	136	255
14	1070	74	214	716	140	271	632	171	292
15	1100	88	261	658	117	208	588	149	237
16	1130	93	284	644	134	233	560	191	289
17	1110	94	282	694	136	255	556	176	264
18	1040	92	258	748	128	259	588	168	267
19	1000	85	230	708	117	224	568	161	247
20	860	95	221	672	118	214	576	224	348
21	766	115	238	716	116	224	572	160	247
22	739	125	249	805	128	278	548	142	210
23	805	135	293	830	140	314	516	106	148
24	865	127	297	757	136	278	500	142	192
25	815	111	244	716	138	267	576	165	257
26	805	119	259	680	138	253	632	191	326
27	830	140	314	676	137	250	592	195	312
28	845	124	283	654	149	263	568	227	348
29	785	111	235	628	150	254	548	222	328
30	785	112	237	662	143	256	508	242	332
31	--	--	--	620	163	273	--	--	--
TOTAL	31100	--	8538	23076	--	8093	17609	--	8062

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	532	194	279	548	188	278	532	141	203
2	472	183	233	520	191	268	536	143	207
3	492	200	266	452	166	203	548	132	195
4	456	219	270	431	171	199	584	128	202
5	484	192	251	452	181	221	680	147	270
6	496	191	256	512	192	265	703	122	232
7	484	142	186	580	207	324	658	126	224
8	473	165	211	556	188	282	690	137	255
9	448	175	212	528	187	267	850	185	425
10	488	181	238	470	175	222	1170	216	682
11	484	194	254	459	174	216	1460	168	662
12	476	226	290	488	178	235	1540	151	628
13	484	209	273	508	165	226	1650	184	820
14	470	214	272	536	150	217	1800	157	763
15	428	207	239	560	139	210	1820	157	771
16	410	214	237	540	127	185	1880	133	675
17	480	181	235	580	146	229	1980	111	593
18	456	231	284	572	123	190	2120	112	641
19	434	209	245	588	152	241	2170	105	615
20	403	187	203	632	137	234	2180	105	618
21	424	174	199	654	133	235	2170	113	662
22	459	184	228	584	120	189	2230	119	716
23	528	213	304	548	121	179	2240	122	738
24	564	207	315	504	136	185	2260	107	653
25	556	213	320	524	138	195	2190	110	650
26	532	184	264	540	142	207	2050	113	625
27	466	169	213	588	152	241	2060	117	651
28	459	178	221	628	171	290	2150	113	656
29	516	218	304	624	161	271	2070	116	648
30	504	218	297	596	150	241	1930	112	584
31	560	210	318	532	123	177	--	--	--
TOTAL	14918	--	7917	16834	--	7122	46901	--	16264

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 561738
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 115928

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
OCT.									
01...	1210	15.0	1570	50	212	--	--	--	--
NOV.									
01...	1145	12.0	1640	28	124	--	--	--	--
DEC.									
03...	1300	9.5	1860	24	121	--	--	--	--
JAN.									
07...	1250	7.0	3420	60	554	--	--	--	--
FEB.									
08...	1214	10.0	3170	77	659	--	--	--	--
MAR.									
06...	1145	17.5	1230	48	159	--	--	--	--
APR.									
10...	1420	18.0	1300	95	333	--	--	--	--
MAY									
08...	1305	19.0	865	120	280	--	--	--	--
12...	0930	21.5	860	130	302	--	--	--	--
30...	0830	23.0	662	148	265	--	--	--	--
JUNE									
01...	1450	25.0	616	172	286	39	56	72	83
06...	0900	25.0	624	154	259	--	--	--	--
09...	0930	22.0	580	149	233	--	--	--	--
13...	0930	22.5	721	117	228	--	--	--	--
15...	0900	23.0	596	139	224	--	--	--	--
23...	0900	23.0	516	110	153	--	--	--	--
27...	0900	23.5	612	213	352	--	--	--	--
JULY									
01...	0800	27.0	544	224	329	--	--	--	--
05...	1240	25.5	508	185	254	52	72	83	94
AUG.									
10...	1150	26.0	470	175	222	44	65	76	88
SEP.									
06...	0830	23.0	703	133	252	--	--	--	--
10...	0900	21.0	1120	215	650	--	--	--	--
12...	1200	20.0	1540	154	640	34	46	58	71
17...	0900	19.0	1980	93	497	--	--	--	--
24...	0930	20.0	2280	89	548	--	--	--	--

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
OCT.								
01...	--	--	88	--	92	--	100	--
NOV.								
01...	--	--	95	--	100	--	--	--
DEC.								
03...	--	--	86	--	100	--	--	--
JAN.								
07...	--	--	54	--	71	--	83	100
FEB.								
08...	--	--	89	--	92	--	95	100
MAR.								
06...	--	--	98	--	98	--	100	--
APR.								
10...	--	--	100	--	--	--	--	--
MAY								
08...	--	--	100	--	--	--	--	--
12...	--	--	100	--	--	--	--	--
30...	--	--	100	--	--	--	--	--
JUNE								
01...	88	--	100	--	--	--	--	--
06...	--	--	98	--	100	--	--	--
09...	--	--	99	--	100	--	--	--
13...	--	--	97	--	100	--	--	--
15...	--	--	96	--	98	--	100	--
23...	--	--	99	--	100	--	--	--
27...	--	--	95	--	97	--	98	100
JULY								
01...	--	--	99	--	99	--	100	--
05...	98	--	99	--	99	--	100	--
AUG.								
10...	95	--	--	--	--	--	--	--
SEP.								
06...	--	--	98	--	100	--	--	--
10...	--	100	--	--	--	--	--	--
12...	82	97	--	98	--	100	--	--
17...	--	--	96	--	100	--	--	--
24...	--	--	90	--	100	--	--	--

11303500 SAN JOAQUIN RIVER NEAR VERNALIS, CALIF.--Continued

PERIODIC DETERMINATION OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)	DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
July 6, 1972..	0930	226	75	Aug. 18.....	0930	137	40
July 7.....	0900	154	60	Aug. 19.....	0930	182	60
July 8.....	0830	190	65	Aug. 20.....	0930	151	45
July 9.....	0830	198	70	Aug. 21.....	1000	150	50
July 10.....	0700	204	65	Aug. 22.....	0800	133	45
July 11.....	1100	212	75	Aug. 23.....	0900	132	45
July 12.....	0830	262	85	Aug. 24.....	0930	154	50
July 13.....	1000	230	70	Aug. 25.....	0830	152	50
July 14.....	0800	246	80	Aug. 26.....	0930	158	50
July 15.....	0630	228	80	Aug. 27.....	0900	163	55
July 16.....	0800	255	85	Aug. 28.....	0700	194	60
July 17.....	0700	174	65	Aug. 29.....	0800	180	55
July 18.....	0800	266	85	Aug. 31.....	0800	170	50
July 19.....	0930	240	80	Aug. 31.....	1000	140	40
July 20.....	0930	214	75	Sept. 1.....	0930	155	45
July 21.....	1000	198	70	Sept. 2.....	0900	160	45
July 22.....	0830	202	70	Sept. 3.....	0830	148	45
July 23.....	0900	236	70	Sept. 4.....	0930	140	40
July 24.....	0930	230	70	Sept. 5.....	0930	170	45
July 25.....	0900	244	75	Sept. 6.....	0830	133	45
July 26.....	0830	208	65	Sept. 7.....	0930	140	45
July 27.....	0930	188	60	Sept. 8.....	0930	149	50
July 28.....	1000	190	65	Sept. 9.....	0830	184	55
July 29.....	0630	241	80	Sept. 10.....	0900	215	70
July 30.....	0830	240	75	Sept. 11.....	0900	158	45
July 31.....	0800	236	75	Sept. 12.....	0800	123	40
Aug. 1.....	1000	210	75	Sept. 12.....	1220	154	40
Aug. 2.....	0900	212	70	Sept. 13.....	0800	208	60
Aug. 3.....	1000	182	65	Sept. 14.....	0930	129	40
Aug. 4.....	0800	186	75	Sept. 15.....	0900	136	35
Aug. 5.....	0930	202	55	Sept. 16.....	0930	116	30
Aug. 6.....	0800	203	60	Sept. 17.....	0900	93	30
Aug. 7.....	0800	233	50	Sept. 18.....	0900	96	25
Aug. 8.....	0830	208	60	Sept. 19.....	0900	89	25
Aug. 9.....	0830	210	65	Sept. 20.....	0900	88	25
Aug. 10.....	0930	196	65	Sept. 21.....	1000	96	30
Aug. 10.....	1145	175	55	Sept. 22.....	0930	100	30
Aug. 10.....	1225	176	55	Sept. 23.....	1000	106	30
Aug. 11.....	0930	191	65	Sept. 24.....	0930	89	25
Aug. 12.....	0930	200	70	Sept. 25.....	1000	94	25
Aug. 13.....	0800	186	60	Sept. 26.....	0900	96	25
Aug. 14.....	0900	169	60	Sept. 27.....	0900	99	25
Aug. 15.....	0930	156	50	Sept. 28.....	1000	96	25
Aug. 16.....	0930	139	50	Sept. 29.....	0930	98	25
Aug. 17.....	0930	168	50	Sept. 30.....	0930	96	25

11308600 CALAVERAS RIVER ABOVE NEW HOGAN LAKE, NEAR SAN ANDREAS, CALIF.

(Formerly published as Calaveras River above New Hogan Reservoir, 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, on right bank 600 ft below confluence of the North and South Forks of the Calaveras River, and 2.3 miles west of San Andreas.

DRAINAGE AREA.--307 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1970 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 31.0°C June 30, July 14, 15; minimum, 3.0°C Jan. 5-9.

Period of record:
Water temperatures: Maximum (1971-72), 31.0°C June 30, July 14, 15, 1972; minimum, 2.5°C Jan. 6, 7, 1971.

REMARKS.--Recorder malfunction Nov. 3 to Dec. 2. No flow July 26 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	11.5	11.5	9.0	---	---	5.5	4.5	5.0	4.5	12.5	11.0
2	19.0	12.0	11.5	9.0	---	---	5.5	5.0	5.5	4.0	13.5	11.5
3	19.0	14.5	---	---	8.0	6.0	6.0	4.5	6.0	4.0	15.0	13.0
4	19.5	14.0	---	---	8.5	6.5	5.0	4.0	6.0	5.0	16.0	13.5
5	20.0	15.0	---	---	8.5	6.0	4.5	3.0	8.5	6.0	16.0	13.5
6	20.5	15.5	---	---	9.0	6.0	4.5	3.0	9.0	7.5	16.5	13.5
7	21.0	15.5	---	---	7.5	6.0	4.5	3.0	8.5	7.5	16.0	13.0
8	21.0	16.0	---	---	6.5	5.5	5.0	3.0	8.5	7.5	16.0	13.5
9	21.0	16.0	---	---	6.0	5.0	4.5	3.0	9.5	8.0	16.5	14.0
10	21.0	16.0	---	---	6.5	6.0	4.5	3.5	9.0	7.5	17.5	15.0
11	21.0	15.5	---	---	7.0	6.0	4.5	4.0	9.5	7.5	17.5	15.0
12	21.0	16.0	---	---	6.5	6.0	5.5	4.5	10.0	8.0	16.5	14.5
13	21.0	16.0	---	---	7.0	5.5	6.0	5.5	10.0	8.0	17.0	14.0
14	20.0	16.5	---	---	6.0	5.5	6.5	5.5	10.0	8.5	16.5	14.0
15	18.0	15.5	---	---	7.0	5.5	6.5	5.0	10.0	8.5	17.0	14.0
16	15.5	14.5	---	---	6.0	5.0	6.5	4.5	10.5	8.0	17.5	14.0
17	16.0	13.5	---	---	6.0	4.5	6.5	4.5	10.5	8.5	18.0	14.5
18	15.5	13.0	---	---	6.0	4.5	6.5	5.0	11.0	9.0	17.5	14.5
19	15.5	13.0	---	---	5.5	4.0	7.5	6.0	12.5	10.0	16.5	14.0
20	15.5	13.0	---	---	5.5	4.0	9.0	7.5	12.0	10.5	17.0	13.5
21	15.5	13.0	---	---	5.0	3.5	9.0	8.0	12.5	11.0	16.5	14.0
22	15.0	12.5	---	---	8.0	5.5	10.0	8.5	12.5	11.5	15.0	13.5
23	15.5	13.5	---	---	8.0	7.5	11.0	9.0	11.5	10.5	15.5	12.5
24	15.0	12.5	---	---	9.0	8.0	9.0	7.5	11.0	10.0	15.0	12.0
25	14.5	12.0	---	---	9.0	7.5	7.5	7.0	12.0	10.0	16.5	14.0
26	14.0	11.5	---	---	7.5	6.5	7.5	6.0	13.5	11.0	15.0	12.0
27	14.0	12.0	---	---	7.5	7.0	6.0	5.5	13.5	11.0	14.0	11.0
28	13.0	11.0	---	---	7.5	7.0	6.5	5.5	13.5	11.5	14.0	10.5
29	11.5	9.0	---	---	7.0	6.5	7.0	6.0	14.0	12.0	14.0	10.5
30	11.0	9.0	---	---	6.5	5.5	6.5	5.0	---	---	15.0	11.0
31	12.0	9.5	---	---	6.0	5.0	6.0	4.5	---	---	13.5	11.5
MONTH	21.0	9.0	---	---	9.0	3.5	11.0	3.0	14.0	4.0	18.0	10.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	13.0	19.5	15.0	23.5	20.0	30.5	21.0	---	---	---	---
2	16.0	12.0	20.5	16.0	23.5	20.0	29.5	21.0	---	---	---	---
3	17.0	13.5	20.5	16.5	24.0	20.0	30.0	20.0	---	---	---	---
4	18.0	15.0	21.0	17.0	24.0	20.0	30.0	20.5	---	---	---	---
5	16.5	15.0	20.0	17.0	25.5	20.5	29.5	21.0	---	---	---	---
6	16.0	14.5	19.5	17.0	25.0	22.0	28.5	20.0	---	---	---	---
7	16.0	13.0	19.0	16.0	25.0	22.0	28.5	19.5	---	---	---	---
8	16.0	13.0	19.5	15.5	24.5	21.5	28.5	18.5	---	---	---	---
9	16.0	13.0	19.5	15.5	24.0	20.5	28.5	20.0	---	---	---	---
10	16.0	13.0	20.0	16.0	23.0	19.0	28.0	20.0	---	---	---	---
11	14.0	13.0	21.0	16.5	23.0	18.5	29.5	20.5	---	---	---	---
12	13.0	12.0	22.0	17.5	23.5	18.5	30.0	21.5	---	---	---	---
13	13.0	10.5	22.5	18.5	24.5	19.5	30.0	22.5	---	---	---	---
14	14.0	10.5	23.5	19.0	24.0	20.0	31.0	22.5	---	---	---	---
15	16.0	12.0	23.0	19.5	25.0	20.5	31.0	23.0	---	---	---	---
16	16.5	13.0	22.5	19.0	25.0	20.5	30.0	23.5	---	---	---	---
17	16.5	13.5	22.5	19.0	25.5	20.0	29.5	22.5	---	---	---	---
18	16.0	13.0	22.0	18.0	26.5	20.5	29.0	22.0	---	---	---	---
19	15.5	12.0	19.0	17.0	26.0	21.0	28.5	21.0	---	---	---	---
20	16.0	12.0	17.0	16.5	26.5	20.5	27.5	20.0	---	---	---	---
21	16.5	13.0	19.5	16.0	26.5	20.5	28.5	20.0	---	---	---	---
22	17.0	13.5	20.0	16.0	27.0	20.0	28.5	19.0	---	---	---	---
23	18.0	14.5	21.0	16.5	26.5	20.0	27.0	18.0	---	---	---	---
24	17.5	15.5	21.0	17.0	26.5	19.0	27.5	17.0	---	---	---	---
25	17.5	14.5	21.5	17.5	27.0	19.0	27.5	15.0	---	---	---	---
26	18.5	14.5	22.5	18.5	26.5	19.5	---	---	---	---	---	---
27	19.5	15.5	23.0	19.0	27.0	20.0	---	---	---	---	---	---
28	19.5	16.0	23.5	19.5	28.5	21.5	---	---	---	---	---	---
29	18.5	15.5	24.0	19.5	29.5	20.0	---	---	---	---	---	---
30	19.0	14.5	24.5	20.0	31.0	20.5	---	---	---	---	---	---
31	---	---	24.0	20.0	---	---	---	---	---	---	---	---
MONTH	19.5	10.5	24.5	15.0	31.0	18.5	31.0	15.0	---	---	---	---

11308900 CALAVERAS RIVER BELOW NEW HOGAN DAM, NEAR VALLEY SPRINGS, CALIF.

LOCATION.--Lat 38°08'53", long 120°49'26", in NE¼ sec.1, T.3 N., R.10 E., Calaveras County, temperature recorder at gaging station on right bank at county road bridge, 0.5 mile upstream from Cosgrove Creek, 0.8 mile downstream from New Hogan Dam, and 3.0 miles south of Valley Springs.

DRAINAGE AREA.--363 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1964 to August 1966.
Water temperatures: October 1970 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 17.0°C Oct. 12; minimum, 5.5°C Dec. 17.

Period of record:
Water temperatures: Maximum, 17.0°C Oct. 12, 1971; minimum (1971-72), 5.5°C Dec. 17, 1971.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	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	8.5	10.0	9.0	10.5	9.5	10.5	10.0	11.0	10.5
2	9.5	8.0	10.0	8.5	10.0	9.0	10.5	9.5	10.5	10.0	11.0	10.5
3	9.5	8.5	10.0	8.5	10.0	9.0	10.5	9.5	11.0	10.0	11.0	10.5
4	9.5	8.5	10.0	9.0	10.5	9.5	10.5	9.5	11.0	10.0	11.0	10.5
5	8.5	8.5	10.0	9.0	10.5	9.5	10.5	9.5	11.0	10.0	11.5	10.5
6	9.0	8.0	10.0	8.5	10.5	9.5	10.5	9.5	11.0	10.0	11.5	10.5
7	9.5	8.0	9.5	8.5	10.5	9.5	10.5	9.5	10.5	10.0	11.5	10.5
8	9.5	8.0	10.0	8.5	10.5	9.5	10.5	9.5	11.0	10.0	11.5	10.0
9	9.5	8.0	10.0	8.5	10.5	9.5	10.5	10.0	11.0	10.0	11.0	10.5
10	9.0	8.0	10.5	8.5	10.5	9.5	10.5	10.0	10.5	10.0	11.0	10.5
11	9.0	8.5	10.0	8.5	10.5	9.5	10.5	10.0	11.0	10.0	11.5	10.5
12	9.0	8.5	10.0	8.5	10.5	9.5	10.5	10.0	11.0	10.0	11.5	10.5
13	9.5	8.0	10.0	8.5	10.5	9.5	10.5	10.0	11.0	10.0	11.5	10.5
14	10.0	8.5	10.0	9.0	10.5	9.5	10.5	10.0	11.0	10.0	11.5	10.5
15	10.0	8.5	10.0	8.5	10.5	9.5	10.5	10.0	11.0	10.0	11.5	10.5
16	9.5	8.5	10.0	8.5	10.5	9.5	10.5	10.0	11.0	10.0	11.5	10.5
17	9.5	8.0	10.5	8.5	10.5	9.5	10.5	10.0	11.0	10.0	11.5	10.5
18	9.5	8.5	10.0	8.5	10.5	9.5	10.5	10.0	11.0	10.0	11.5	10.5
19	10.0	8.5	9.5	8.5	10.5	9.5	10.5	10.0	11.0	10.0	11.5	10.5
20	10.0	8.5	9.5	9.0	10.5	9.5	10.5	10.0	11.0	10.0	11.5	10.5
21	10.0	8.5	10.0	9.0	10.5	9.5	10.5	9.5	11.0	10.0	11.5	10.5
22	10.0	8.5	10.0	9.0	10.5	9.5	10.5	9.5	11.0	10.0	11.5	10.5
23	10.0	8.5	10.0	9.0	10.5	9.5	10.5	9.5	11.0	10.5	11.5	10.5
24	9.5	8.5	10.0	9.0	10.5	9.5	10.5	9.5	11.0	10.0	11.5	10.5
25	10.0	8.5	10.0	9.0	10.5	9.5	10.5	9.5	11.0	10.0	11.5	10.5
26	10.0	8.5	10.0	9.0	10.5	9.5	10.5	9.5	11.0	10.0	11.0	10.5
27	10.0	8.5	10.5	9.0	10.5	9.5	10.5	9.5	11.0	10.0	11.5	10.5
28	10.0	8.5	10.5	9.0	10.5	9.5	10.5	10.0	11.0	10.0	11.5	10.5
29	10.0	8.5	10.5	9.0	10.5	9.5	10.5	10.0	11.0	10.5	12.0	10.5
30	10.0	8.5	10.5	9.0	10.5	9.5	10.5	10.0	11.0	10.5	11.5	10.5
31	---	---	10.0	9.0	---	---	10.5	10.0	11.0	10.5	---	---
MONTH	10.0	8.0	10.5	8.5	10.5	9.0	10.5	9.5	11.0	10.0	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 miles northwest of Mokelumne Hill, and 8 miles downstream from confluence of North and South Forks.

DRAINAGE AREA.--544 sq mi.

PERIOD OF RECORD.--Water temperatures: February 1961 to September 1972.

EXTREMES,--1971-72:
Water temperatures: Maximum, 22.5°C Aug. 12; minimum, 1.5°C Feb. 2.

Period of record:
Water temperatures: Maximum, 24.5°C Aug. 5, 1967; minimum (1961-65, 1966-72), 1.0°C Jan. 31, Feb. 1, 1968.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	12.5	11.5	9.5	7.5	5.5	4.0	2.5	3.5	2.0	10.0	7.5
2	13.5	12.5	11.5	8.5	7.0	6.5	4.5	2.5	3.5	1.5	10.0	8.0
3	14.5	12.5	12.0	10.0	7.0	6.0	4.0	3.0	4.0	2.0	11.0	9.0
4	14.0	13.0	12.0	10.0	7.0	6.5	3.5	2.0	4.0	2.5	10.0	9.0
5	14.5	13.5	11.5	10.0	6.5	5.0	3.0	2.0	5.5	4.0	11.0	9.5
6	15.0	14.0	11.0	9.0	7.0	6.0	4.0	2.0	6.0	5.0	11.0	9.5
7	15.0	14.5	11.0	9.0	6.0	5.0	4.0	3.0	5.5	4.5	10.5	9.5
8	15.5	14.5	11.5	10.0	5.5	4.5	4.0	3.0	6.0	4.5	10.5	10.0
9	15.5	15.0	12.0	11.0	5.0	4.5	4.0	3.0	6.0	5.0	11.0	10.0
10	15.5	15.0	12.0	11.0	5.0	4.5	4.0	3.0	6.0	4.5	11.5	10.5
11	15.5	15.0	11.5	11.0	5.0	4.0	4.0	3.5	7.0	4.0	12.0	10.5
12	15.5	15.0	11.0	10.5	5.0	4.0	4.0	3.5	7.0	5.0	11.5	10.5
13	15.5	15.0	10.5	9.5	5.0	4.0	4.0	3.5	7.0	5.0	11.5	10.5
14	15.5	15.0	10.0	9.0	5.0	3.5	4.5	3.5	6.5	5.0	11.0	10.5
15	15.0	14.0	9.5	8.5	5.0	4.0	4.0	2.5	6.0	5.0	10.5	10.0
16	14.0	13.5	9.5	8.0	4.5	3.0	4.5	3.0	7.0	5.0	11.0	9.5
17	13.5	12.5	9.5	7.5	3.5	2.0	4.5	3.0	6.5	5.0	12.5	10.0
18	13.0	12.5	9.0	7.5	4.0	2.0	4.5	3.5	8.5	6.0	11.0	10.0
19	13.5	12.5	9.0	7.5	4.0	2.0	5.5	4.0	8.5	6.5	11.0	10.0
20	13.5	13.0	9.0	7.5	4.0	2.0	5.5	4.5	9.0	6.5	10.5	10.0
21	13.0	12.5	9.0	7.5	4.0	2.0	6.0	4.5	8.5	7.5	10.5	10.0
22	14.0	13.0	9.0	7.5	5.5	4.0	6.5	4.5	9.5	7.5	11.5	10.0
23	14.0	13.5	9.0	8.0	6.0	5.0	6.5	5.0	8.5	7.5	11.5	9.0
24	14.0	13.0	9.0	8.0	7.0	5.0	5.5	4.5	8.5	7.5	10.0	8.5
25	13.5	12.5	9.5	7.5	6.5	5.0	5.5	4.5	8.5	7.5	11.0	8.5
26	13.5	12.5	8.5	7.5	5.5	4.5	5.5	4.5	8.5	7.5	7.5	8.0
27	13.5	13.0	8.5	8.0	6.0	4.0	4.5	3.5	9.5	7.5	10.0	7.5
28	13.0	12.0	8.5	8.0	5.0	3.5	4.5	3.0	9.5	7.5	9.0	8.0
29	12.0	11.5	8.5	8.0	4.5	3.5	3.5	2.5	9.5	8.0	10.5	7.5
30	11.5	10.5	8.0	7.0	4.5	3.0	3.5	2.0	---	---	10.0	8.0
31	11.5	10.0	---	---	3.5	2.5	3.0	2.0	---	---	9.0	8.5
MONTH	15.5	10.0	12.0	7.0	7.5	2.0	6.5	2.0	9.5	1.5	12.5	7.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	9.0	12.5	11.0	15.0	14.5	16.0	13.5	17.5	13.5	17.5	16.0
2	10.5	8.5	14.0	12.0	15.5	15.0	17.0	13.0	16.0	14.0	17.5	15.0
3	11.0	10.0	13.0	12.0	16.0	15.0	15.0	13.0	15.5	13.5	18.0	15.5
4	12.0	10.5	13.5	12.0	16.0	14.5	16.0	12.5	16.5	13.5	17.0	16.0
5	13.5	11.0	14.0	12.0	16.0	14.5	15.0	12.5	17.0	14.0	17.0	15.5
6	12.0	10.5	14.0	12.0	16.0	15.0	15.0	13.0	18.5	15.0	18.0	15.5
7	12.5	10.5	13.5	12.0	16.0	15.0	15.5	12.0	17.5	15.0	17.5	16.0
8	12.0	10.0	14.5	12.0	16.0	15.0	14.5	11.5	17.0	15.0	17.0	15.5
9	12.0	10.0	14.0	12.0	15.5	14.5	17.0	12.0	20.0	16.0	19.0	14.5
10	12.5	10.5	14.0	11.5	15.0	13.5	14.5	12.0	20.0	16.0	16.5	14.0
11	11.5	11.0	15.0	12.5	14.0	12.5	14.5	12.5	18.0	16.0	16.0	13.0
12	11.0	9.5	14.5	12.5	13.5	12.0	15.0	12.5	22.5	14.5	16.0	14.0
13	10.0	9.0	14.0	12.0	15.0	12.0	15.0	13.0	20.5	16.0	16.0	14.0
14	10.0	8.5	16.5	12.0	14.5	13.0	15.0	13.0	17.0	15.5	16.0	14.0
15	10.5	9.0	16.5	13.5	15.0	13.0	15.0	13.0	21.0	14.5	16.5	14.5
16	10.5	9.5	17.0	14.5	14.5	13.0	15.0	13.0	17.0	14.0	16.5	14.0
17	10.5	10.0	15.5	15.0	14.5	13.0	15.5	13.5	17.0	15.5	20.0	14.0
18	11.0	9.5	16.0	14.0	14.5	13.0	15.5	13.5	16.5	14.5	17.5	14.0
19	11.0	9.5	14.0	13.0	15.0	14.0	15.0	13.5	19.0	15.0	17.0	15.5
20	11.5	9.5	13.0	12.0	15.5	13.0	15.0	13.0	17.5	15.0	16.0	14.0
21	11.5	9.5	12.5	11.5	15.5	13.0	15.0	13.0	16.5	14.5	16.0	15.0
22	11.5	10.5	13.5	11.0	15.0	14.0	15.0	13.0	17.5	14.5	16.0	13.5
23	12.0	11.0	15.0	11.5	15.0	13.0	14.5	13.0	17.5	14.5	16.5	13.5
24	12.0	11.5	14.5	12.0	14.5	13.0	16.5	13.0	17.5	14.5	16.0	12.5
25	12.0	11.0	16.0	14.0	14.5	12.5	15.5	13.5	17.0	15.0	15.5	11.5
26	12.0	10.5	15.5	14.0	14.5	12.0	15.0	13.0	17.5	15.0	15.5	15.0
27	12.5	11.0	17.0	14.5	14.5	12.5	16.0	12.5	17.0	15.5	16.5	15.5
28	13.0	11.0	17.0	14.5	14.5	13.0	15.5	13.0	17.5	16.0	16.5	15.5
29	12.5	11.0	17.5	14.5	15.5	13.0	16.0	13.5	17.5	15.5	17.0	14.5
30	12.5	10.5	16.0	14.5	15.5	13.0	19.0	14.0	18.0	16.0	16.5	15.5
31	---	---	15.5	14.0	---	---	16.0	13.5	17.5	16.0	---	---
MONTH	13.5	8.5	17.5	11.0	16.0	12.0	19.0	11.5	22.5	13.5	20.0	11.5

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 mile downstream from Murphy Creek, 1.0 mile downstream from Camanche Dam, and 3.4 miles northeast of Clements.
DRAINAGE AREA.--627 sq mi.
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 September 1972.
Sediment records: Water years 1956-70 (partial-record station). Prior to 1962 water year published as "near Clements".
EXTREMES.--1971-72:
Water temperatures: Maximum, 20.5°C July 14, 15; minimum recorded, 8.5°C on several days during January and February.
Period of record:
Water temperatures (1961-63, 1964-68, 1970-72): Maximum (1961-63, 1964-65, 1970-72), 22.0°C Aug. 9, 10, 1971; minimum (1961-63, 1965-68, 1970-72), 7.0°C Jan. 22-26, 1962.
REMARKS.--Recorder malfunction Dec. 17-20, Dec. 27 to Jan. 7, Feb. 14, Apr. 19-21, Apr. 30 to May 9.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

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 mile downstream from county highway bridge, and 0.5 mile downstream from dam and canal intake of Woodbridge Irrigation District.

DRAINAGE AREA.--661 sq mi.

PERIOD OF RECORD.--Chemical analyses: March 1951 to September 1963, water years 1964-66, 1968-72 (partial-record station).
Water temperatures: March 1951 to September 1958, November 1960 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 27.0°C July 14, 15; minimum, 6.0°C Feb. 2, 3.

Period of record:
Water temperatures: Maximum (1951-54, 1956-58, 1960-72), 28.5°C July 9, 1951; minimum (1951-55, 1956-58, 1961-72), 1.5°C Jan. 29, 30, 1954.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
OCT.								
18...	1300	--	1000	--	--	--	--	--
29...	1000	--	1220	--	--	--	--	--
NOV.								
19...	1100	--	209	5.0	2.2	23	0	19
DEC.								
07...	1100	--	81	--	--	--	--	--
JAN.								
05...	1600	224	--	--	--	--	--	--
FEB.								
03...	1330	--	63	--	--	--	--	--
MAR.								
09...	1230	--	38	--	--	--	--	--
APR.								
13...	1415	--	88	--	--	--	--	--
MAY								
02...	1000	--	41	--	--	--	--	--
JUNE								
05...	1115	--	49	--	--	--	--	--
JULY								
21...	0830	--	40	4.7	2.5	20	0	16
AUG.								
21...	0830	--	50	--	--	--	--	--
SEP.								
20...	0800	--	44	4.8	2.5	22	0	18

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	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)	TUR-BID-ITY (JTU)
OCT.							
18...	--	--	--	--	--	15.0	--
29...	--	--	--	--	--	11.5	--
NOV.							
19...	2.1	22	3	49	7.0	11.0	--
DEC.							
07...	--	--	--	--	--	8.0	--
JAN.							
05...	--	--	--	--	--	7.0	--
FEB.							
03...	--	--	--	--	--	5.5	--
MAR.							
09...	--	--	--	--	--	16.5	--
APR.							
13...	--	--	--	--	--	12.0	--
MAY							
02...	--	--	--	--	--	15.5	--
JUNE							
05...	--	--	--	44	--	22.0	--
JULY							
21...	1.9	19	3	48	6.8	21.0	3
AUG.							
21...	--	--	--	--	--	20.5	--
SEP.							
20...	2.2	17	0	50	--	16.5	1

11325500 MOKELUMNE RIVER AT WOODBRIDGE, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
18...	1300	--	1000	44	7.1	15.0	10.5
29...	1000	--	1220	46	7.0	11.5	10.6
NOV.							
19...	1100	--	209	50	7.0	11.0	10.7
DEC.							
07...	1100	--	81	52	7.3	8.0	11.6
JAN.							
05...	1600	224	--	48	7.1	7.0	12.7
FEB.							
03...	1330	--	63	52	7.1	5.5	12.5
MAR.							
09...	1230	--	38	51	7.0	16.5	9.0
APR.							
13...	1415	--	88	45	7.3	12.0	10.6
MAY							
02...	1000	--	41	46	7.0	15.5	9.6
JUNE							
05...	1115	--	49	44	7.2	22.0	9.1
JULY							
21...	0830	--	40	47	7.1	--	8.8
AUG.							
21...	0830	--	50	47	7.1	20.5	8.9
SEP.							
20...	0800	--	44	49	7.0	16.5	9.6

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

11325500 MOKELUMNE RIVER AT WOODBRIDGE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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 miles southwest of Latrobe, and 12 miles downstream from confluence of North and Middle Fork Cosumnes River.

DRAINAGE AREA.--536 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), October 1953 to September 1963, water years 1964-72 (partial-record station).
Water temperatures: October 1962 to September 1972.
Sediment records: Water years 1958-62 (partial-record station), October 1962 to September 1970, water years 1971-72 (partial-record station).

EXTREMES, 1971-72:
Water temperatures: Maximum recorded, 28.0°C July 1, 13, Aug. 10; minimum, 2.0°C Feb. 2.

Period of record:
Water temperatures: Maximum (1965-72), 30.0°C Aug. 26, 27, 1967; minimum (1963-72), 1.5°C on several days in 1965 and 1968.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No temperature record July 5, 6, 14-18.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
OCT.							
06...	0730	27	--	--	--	--	--
NOV.							
03...	0830	32	--	--	--	--	--
DEC.							
07...	0830	88	--	--	--	--	--
JAN.							
05...	1300	179	10	4.4	49	0	40
FEB.							
03...	1510	239	--	--	--	--	--
MAR.							
09...	1530	839	--	--	--	--	--
APR.							
17...	1315	700	5.3	3.2	29	0	24
MAY							
18...	1345	295	4.5	2.5	23	0	19
JUNE							
21...	1300	56	--	--	--	--	--
JULY							
21...	0730	69	--	--	--	--	--
AUG.							
23...	0930	45	4.5	2.7	26	0	21
SEP.							
20...	1215	8.0	--	--	--	--	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
OCT.							
06...	--	--	--	--	--	16.5	--
NOV.							
03...	--	--	--	--	--	8.5	--
DEC.							
07...	--	--	--	--	--	6.0	--
JAN.							
05...	4.0	51	11	108	7.5	3.5	--
FEB.							
03...	--	--	--	--	--	3.5	--
MAR.							
09...	--	--	--	--	--	12.0	--
APR.							
17...	1.2	21	0	56	7.3	13.5	2
MAY							
18...	1.3	16	0	44	--	20.5	0
JUNE							
21...	--	--	--	--	--	25.5	--
JULY							
21...	--	--	--	--	--	24.5	--
AUG.							
23...	2.1	17	0	49	--	24.0	0
SEP.							
20...	--	--	--	--	--	22.0	--

11335000 COSUMNES RIVER AT MICHIGAN BAR, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
06...	0730	27	75	7.3	16.5	8.5
NOV.						
03...	0830	32	88	7.3	8.5	11.1
DEC.						
07...	0830	88	76	7.8	6.0	12.1
JAN.						
05...	1300	179	105	7.3	3.5	14.1
FEB.						
03...	1510	239	105	7.4	3.5	14.1
MAR.						
09...	1530	839	50	7.3	12.0	10.7
APR.						
17...	1315	700	54	7.3	13.5	10.3
MAY						
18...	1345	295	46	7.3	20.5	9.5
JUNE						
21...	1300	56	60	7.4	25.5	8.2
JULY						
21...	0730	69	54	7.5	24.5	7.9
AUG.						
23...	0930	45	48	7.3	24.0	7.9
SEP.						
20...	1215	8.0	75	7.5	22.0	9.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	9.0	8.5	7.0	4.0	3.5	3.5	3.0	9.5	8.0
2	17.5	16.0	11.5	9.0	7.0	6.5	4.0	3.5	3.0	2.0	9.0	8.0
3	18.0	16.0	11.0	9.5	7.0	6.5	3.5	3.0	3.5	2.5	10.0	9.0
4	18.0	16.0	11.0	9.5	6.5	6.0	3.0	2.5	4.0	3.0	10.5	10.0
5	18.5	16.5	11.5	10.0	6.5	6.0	3.0	2.5	6.5	4.0	10.5	9.5
6	19.0	17.0	11.0	10.0	7.0	6.5	3.0	2.5	6.5	6.0	10.5	9.5
7	19.0	17.0	11.0	10.0	7.0	5.5	3.0	2.5	6.5	6.0	10.5	9.5
8	20.0	17.5	11.0	10.0	5.5	5.0	3.0	2.5	6.5	6.0	11.0	10.0
9	19.0	17.0	11.0	10.0	5.0	4.5	3.0	2.5	7.0	6.5	11.0	11.0
10	19.0	17.0	11.0	10.0	5.0	4.5	3.5	3.0	7.0	6.5	11.0	11.0
11	18.0	16.5	11.5	10.5	5.5	5.0	3.0	3.0	7.0	6.0	11.5	11.0
12	18.5	16.5	11.5	11.5	5.5	5.5	3.5	3.0	7.5	6.5	11.5	11.0
13	18.0	17.0	11.5	11.0	5.5	5.0	3.5	3.0	7.5	6.5	11.5	10.5
14	18.5	17.0	11.0	10.0	5.0	4.5	4.0	3.5	7.5	7.0	11.5	11.0
15	17.0	15.5	10.0	9.5	5.0	5.0	4.0	3.5	7.0	6.5	11.5	11.0
16	16.0	15.0	9.5	8.5	5.0	4.5	3.5	3.5	7.5	6.5	12.0	11.0
17	15.0	14.0	9.5	8.0	4.5	4.0	4.0	3.5	7.5	6.5	12.5	11.5
18	15.0	13.5	8.5	8.0	4.5	3.5	4.5	4.0	7.5	7.0	13.0	12.0
19	15.0	13.5	8.5	7.5	4.5	3.5	5.0	4.5	8.5	7.5	13.0	12.0
20	15.5	14.0	8.5	7.5	4.5	3.5	6.0	5.0	8.5	8.0	12.5	11.0
21	15.0	14.0	8.5	7.5	4.5	3.5	6.5	6.0	9.0	8.5	12.5	12.0
22	15.5	14.0	8.5	8.0	6.0	4.5	7.5	6.5	9.5	9.0	12.5	12.0
23	16.0	14.0	9.0	8.0	6.0	6.0	7.5	7.5	9.5	8.0	12.0	11.0
24	15.0	14.0	8.5	8.0	7.0	6.0	7.5	5.5	8.0	8.0	12.0	11.0
25	15.0	13.0	9.0	8.0	7.0	6.0	5.0	4.5	8.5	8.0	13.0	12.0
26	14.0	12.0	9.0	8.0	6.0	5.5	4.5	4.5	9.0	8.0	13.0	11.0
27	13.0	12.0	9.0	8.5	6.5	5.5	4.5	4.0	9.5	8.5	11.5	10.0
28	12.5	10.5	9.5	9.0	6.0	5.5	4.5	3.5	9.5	9.0	11.0	10.0
29	11.5	10.0	9.5	9.0	5.5	5.5	4.0	3.5	9.5	9.0	12.0	11.0
30	10.5	9.5	9.5	8.5	5.5	4.5	4.0	3.0	---	---	12.5	11.5
31	11.0	9.5	---	---	4.5	3.5	3.5	3.0	---	---	12.5	12.0
MONTH	20.0	9.5	11.5	7.5	8.5	3.5	7.5	2.5	9.5	2.0	13.0	8.0

11335000 COSUMNES RIVER AT MICHIGAN BAR, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	12.0	16.5	14.5	22.0	21.0	28.0	27.0	25.0	24.0	25.5	24.0
2	14.5	12.5	17.0	15.0	22.5	22.0	27.5	26.5	25.0	23.5	26.0	23.5
3	15.5	14.5	17.5	16.0	22.5	21.5	27.0	26.0	25.0	24.0	25.5	23.0
4	16.0	15.5	18.0	16.5	23.5	22.0	27.0	26.0	25.5	24.0	24.0	23.0
5	16.0	15.0	17.5	16.0	24.0	23.0	---	---	25.5	24.5	25.5	22.5
6	15.0	14.0	16.5	16.0	24.5	24.0	---	---	26.0	25.0	26.0	22.5
7	14.0	13.0	16.0	15.0	24.5	24.0	---	---	26.0	25.0	26.0	23.0
8	14.0	13.0	16.0	14.5	24.5	24.0	26.0	25.0	27.0	25.5	26.0	22.5
9	14.0	13.5	17.0	15.0	24.0	22.5	26.5	25.0	27.5	26.5	25.0	23.0
10	14.0	13.0	18.0	16.0	23.0	22.0	26.5	25.5	28.0	26.5	24.0	21.5
11	13.5	13.5	18.0	16.5	22.5	22.0	27.0	26.0	27.5	26.0	23.5	21.0
12	13.5	12.0	19.0	17.5	23.0	22.0	27.5	26.5	26.5	25.5	23.0	20.5
13	12.5	10.5	19.5	18.0	24.0	22.5	28.0	27.0	26.0	25.0	24.0	20.5
14	13.0	11.5	20.0	18.5	24.5	23.5	---	---	25.0	24.0	23.0	20.0
15	14.0	12.5	20.0	19.0	25.0	24.0	---	---	24.5	23.5	23.5	20.5
16	14.5	14.0	20.0	19.0	25.0	24.0	---	---	24.0	23.0	23.5	20.5
17	14.5	14.0	19.5	18.5	25.0	24.0	---	---	24.5	23.5	22.5	20.0
18	14.0	13.0	19.5	18.5	25.0	24.0	---	---	24.5	23.5	22.0	20.0
19	13.5	12.0	19.0	16.5	25.0	24.5	25.0	23.5	24.0	23.0	22.5	20.0
20	14.0	12.0	16.5	15.5	25.0	24.0	24.0	23.5	24.5	23.5	22.0	19.5
21	14.5	13.0	16.5	15.0	26.0	25.0	24.0	22.5	25.0	23.0	22.0	19.5
22	15.0	14.0	17.5	16.5	25.5	24.5	24.0	23.0	25.0	24.0	22.0	19.5
23	15.5	14.5	18.5	17.5	25.0	24.0	24.0	23.0	25.0	24.0	20.5	19.0
24	15.5	15.0	19.0	18.0	25.0	23.5	25.0	23.5	25.0	24.0	20.0	17.5
25	15.5	14.0	19.5	18.5	25.0	23.5	25.0	23.5	25.0	24.0	19.0	17.5
26	15.5	14.0	21.0	19.5	25.5	24.0	25.0	23.5	25.5	24.0	19.0	18.5
27	16.5	15.0	21.5	20.0	26.0	24.5	25.0	23.5	25.0	24.0	19.5	18.5
28	16.5	15.5	22.0	20.5	26.5	25.0	25.5	23.0	25.0	24.0	20.0	19.0
29	16.5	15.0	22.0	21.0	26.5	25.5	25.5	24.0	25.0	24.0	20.0	19.5
30	15.5	14.0	22.5	21.5	27.5	26.0	25.5	24.5	25.5	24.5	20.0	19.5
31	---	---	22.5	21.5	---	---	25.5	24.5	25.5	24.5	---	---
MONTH	16.5	10.5	22.5	14.5	27.5	21.0	---	---	28.0	23.0	26.0	17.5

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
OCT.									
01...	0910	16.0	26	2	.14	--	--	--	--
NOV.									
02...	0940	9.0	32	1	.09	--	--	--	--
DEC.									
01...	1010	7.5	116	2	.63	--	--	--	--
27...	1135	6.5	1110	22	66	83	88	93	100
JAN.									
04...	0950	2.5	218	2	1.2	--	--	--	--
FEB.									
01...	0920	3.0	263	5	3.6	--	--	--	--
MAR.									
01...	1010	8.0	911	19	47	93	100	--	--
APR.									
04...	1530	15.5	400	3	3.2	--	--	--	--
JUNE									
08...	1445	24.0	122	4	1.3	--	--	--	--
JULY									
14...	1300	27.5	49	1	.13	--	--	--	--
AUG.									
08...	0920	25.5	50	9	1.2	--	--	--	--
SEP.									
06...	0935	22.5	6.4	1	.02	--	--	--	--

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 upstream from Stink Creek, 0.3 mile upstream from Southern Pacific Railroad bridge, and 3.3 miles south of town of Mt Shasta.

DRAINAGE AREA.--135 sq mi.

PERIOD OF RECORD.--Chemical analyses: May 1970 to September 1972.
Water temperatures: October 1965 to September 1972.
Sediment records: Water year 1972 (partial-record station).

EXTREMES, 1971-72:
Water temperatures: Maximum, 18.5°C sometime during period July 24 to Aug. 8; minimum, 2.5°C on several days during January and February.

Period of record:
Water temperatures: Maximum (1966-72), 18.5°C sometime during period July 24 to Aug. 8, 1972; minimum (1965-66, 1967-72), 1.5°C on several days in 1968 and 1969.

REMARKS.--Clock stopped Apr. 4-13, Apr. 24 to May 2, July 24 to Aug. 8; range in temperature, 6.0°C to 8.0°C, 6.5°C to 8.0°C, and 14.5°C to 18.5°C, respectively.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED 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)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
OCT.										
20...	1330	88	.06	.06	.19	.25	--	11.0	1	--
DEC.										
01...	1230	132	.11	.11	.50	.61	.06	7.0	1	--
FEB.										
10...	1015	86	--	.15	.26	.41	.05	4.0	3	--
APR.										
13...	0900	377	.02	.02	.23	.25	.04	6.5	2	--
MAY										
10...	1015	377	.01	.01	.09	.10	.18	10.5	--	--
JUNE										
13...	1400	204	.03	.03	.13	.16	.10	11.0	--	--
JULY										
13...	1720	65	.04	.04	.16	.20	.06	14.5	1	1.4
AUG.										
13...	0900	50	.04	.04	.23	.27	.08	10.0	2	.4
SEP.										
13...	1120	58	.04	.04	.10	.14	.11	9.5	--	.4

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.										
20...	1330	88	131	8.2	11.0	1	9.9	100	1400	0
DEC.										
01...	1230	132	122	8.3	7.0	--	11.2	102	160	2
FEB.										
10...	1015	86	122	8.0	4.0	3	11.9	101	140	6
APR.										
13...	0900	377	93	8.0	6.5	--	11.3	102	190	4
MAY										
10...	1015	377	90	8.0	10.5	--	10.2	101	--	0
JUNE										
13...	1400	204	98	7.9	11.0	1	10.1	101	80	0
JULY										
13...	1720	65	115	8.1	14.5	--	8.8	105	--	4
AUG.										
13...	0900	50	121	7.9	10.0	--	10.4	102	7000	16
SEP.										
13...	1120	58	117	8.0	9.5	1	10.7	104	1600	4

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
20...	1330	11.0	88	2	.48
DEC.					
01...	1230	7.0	132	4	1.4

11341400 SACRAMENTO RIVER NEAR MT SHASTA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	12.5	---	---	---	---	4.5	4.0	2.5	2.5	4.5	4.0
2	13.0	12.5	---	---	7.0	6.5	4.5	4.0	2.5	2.5	4.5	4.5
3	13.5	12.5	---	---	7.0	7.0	4.0	3.5	3.0	2.5	4.5	4.0
4	13.5	13.0	---	---	7.0	7.0	4.0	3.5	3.0	3.0	4.5	4.0
5	13.5	13.0	---	---	7.0	6.5	4.5	4.0	3.5	3.0	4.5	4.0
6	13.5	13.0	---	---	6.5	6.5	4.5	4.0	3.5	3.0	4.5	4.0
7	13.5	13.0	---	---	6.5	6.0	4.5	4.5	3.5	3.0	4.5	4.0
8	14.0	13.0	---	---	6.5	6.0	4.5	4.0	3.5	3.0	4.5	4.0
9	14.0	13.0	---	---	6.5	6.0	4.0	4.0	4.0	3.5	5.0	4.5
10	14.0	13.0	---	---	6.5	6.0	4.5	4.0	4.0	3.5	5.0	5.0
11	13.5	13.0	---	---	6.5	6.0	4.5	4.0	4.0	3.5	5.0	5.0
12	14.0	13.0	---	---	6.5	5.5	4.0	4.0	4.0	3.5	5.0	5.0
13	13.5	13.0	---	---	6.0	6.0	4.0	3.5	4.0	3.5	5.0	4.5
14	13.0	12.5	---	---	6.0	6.0	4.0	3.5	3.5	3.5	5.0	4.5
15	12.5	12.0	---	---	6.0	5.5	3.5	3.5	4.0	3.5	5.5	5.0
16	12.0	11.5	---	---	6.0	5.0	4.0	3.5	4.0	3.5	5.5	5.0
17	12.0	11.5	---	---	5.0	5.0	4.0	3.5	4.0	3.5	6.0	5.5
18	---	---	---	---	5.5	5.0	3.5	3.5	4.0	3.5	6.0	5.5
19	---	---	---	---	5.5	5.5	3.5	3.5	4.0	4.0	6.0	5.5
20	---	---	---	---	5.5	5.0	3.5	3.5	4.0	4.0	6.0	5.5
21	---	---	---	---	5.5	5.0	4.0	3.5	4.0	4.0	6.0	6.0
22	---	---	---	---	5.5	5.0	4.0	3.5	4.0	3.5	6.5	6.0
23	---	---	---	---	5.5	5.0	4.0	3.5	4.5	4.0	6.5	6.5
24	---	---	---	---	5.5	5.5	3.5	3.5	4.5	4.5	6.5	6.5
25	---	---	---	---	5.5	5.0	3.5	3.5	4.5	4.5	6.5	6.5
26	---	---	---	---	5.0	5.0	3.5	3.5	4.5	4.5	6.5	6.5
27	---	---	---	---	5.0	5.0	3.5	3.5	4.5	4.5	6.5	6.5
28	---	---	---	---	5.0	4.5	3.5	3.5	4.5	4.5	7.0	6.5
29	---	---	---	---	4.5	4.5	3.5	2.5	4.5	4.0	7.0	6.5
30	---	---	---	---	4.5	4.5	2.5	2.5	---	---	7.0	6.5
31	---	---	---	---	4.5	4.5	2.5	2.5	---	---	7.0	7.0
MONTH	---	---	---	---	7.0	4.5	4.5	2.5	4.5	2.5	7.0	4.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	7.0	---	---	14.5	13.5	12.0	10.0	---	---	14.0	10.0
2	7.5	7.0	---	---	14.5	14.0	12.0	10.0	---	---	13.5	10.5
3	7.5	7.0	12.0	11.0	14.5	14.0	12.0	10.0	---	---	14.0	10.0
4	---	---	12.5	11.5	14.5	13.5	11.5	9.0	---	---	13.0	10.5
5	---	---	12.0	10.5	14.5	14.0	11.5	9.0	---	---	14.0	10.5
6	---	---	11.5	10.5	14.5	13.5	11.5	9.5	---	---	13.0	10.0
7	---	---	11.0	10.5	14.0	13.5	12.5	10.0	---	---	13.0	9.5
8	---	---	11.0	10.5	14.0	13.0	12.5	10.0	---	---	13.0	9.5
9	---	---	11.0	10.5	13.5	12.5	12.5	10.5	15.0	10.5	12.5	9.5
10	---	---	11.0	10.5	13.5	13.0	12.5	10.5	16.0	10.5	12.0	9.5
11	---	---	11.0	10.5	13.5	13.0	13.5	11.0	16.0	10.5	11.5	9.0
12	---	---	11.5	10.5	13.0	11.0	13.5	11.0	14.5	9.5	12.0	8.5
13	---	---	12.0	11.0	11.5	10.5	14.5	12.5	14.0	9.5	12.0	8.5
14	6.5	6.5	12.0	11.0	12.0	10.5	16.0	13.0	14.0	9.0	12.0	9.0
15	6.5	6.5	12.0	11.0	12.5	11.0	16.5	15.0	12.5	9.0	12.5	9.0
16	7.0	6.5	12.0	11.5	11.5	10.5	17.0	15.0	10.5	9.0	12.5	9.0
17	6.5	6.5	12.5	12.0	11.5	10.5	17.0	15.0	13.5	8.5	12.5	9.5
18	6.5	6.5	12.0	12.0	11.5	10.5	17.0	15.0	12.5	9.0	12.5	9.0
19	7.0	6.5	12.0	11.5	11.0	10.0	16.5	15.0	14.0	9.5	12.0	9.0
20	7.5	6.5	12.0	11.5	12.0	10.5	16.5	12.0	13.5	9.5	12.0	8.5
21	7.5	7.0	12.0	12.0	12.0	10.5	14.0	12.0	14.0	9.5	12.0	9.0
22	7.5	6.5	12.5	12.0	12.0	10.5	14.5	12.5	14.0	9.5	12.0	9.5
23	7.5	7.0	12.5	12.0	12.0	10.5	15.0	13.0	14.0	9.0	11.5	9.0
24	---	---	13.0	12.0	11.5	10.0	---	---	14.0	9.5	11.0	9.0
25	---	---	13.5	13.0	11.5	10.0	---	---	14.0	9.5	11.0	8.5
26	---	---	13.5	13.0	13.0	10.0	---	---	14.0	9.5	10.0	9.5
27	---	---	14.0	13.0	15.0	12.5	---	---	14.5	10.0	12.0	10.0
28	---	---	14.0	13.0	15.0	13.5	---	---	14.5	10.0	12.0	9.5
29	---	---	15.0	13.5	14.5	13.0	---	---	14.5	10.5	12.0	9.0
30	---	---	15.0	14.0	14.5	10.0	---	---	14.5	10.0	12.0	9.5
31	---	---	15.0	13.5	---	---	---	---	14.5	10.0	---	---
MONTH	---	---	15.0	10.5	15.0	10.0	---	---	---	---	14.0	8.5

11342000 SACRAMENTO RIVER AT DELTA, CALIF.

LOCATION.--Lat 40°56'23", long 122°24'58", in NW¼ sec.35, T.36 N., R.5 W., Shasta County, Bureau of Reclamation property, at gaging station on left bank 0.2 mile downstream from Dog Creek, 0.6 mile southeast of Delta, and 2.8 miles south of Lamoine.

DRAINAGE AREA.--425 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), December 1953 to September 1972.
Water temperatures: June to September 1951, October 1953 to September 1957, October 1962 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 29.5°C July 15; minimum, 0.5°C Dec. 22.

Period of record:
Water temperatures: Maximum (1951, 1953-57, 1963-72), 29.5°C July 15, 1972; minimum, freezing point on several days in 1964, 1967, and 1968.

REMARKS.--Selected analyses furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
OCT.											
21...	1730	272	--	--	--	--	--	.06	.06	.17	.23
NOV.											
16...	1015	342	--	--	--	--	--	--	--	--	--
DEC.											
02...	0910	661	--	--	--	--	--	.10	.10	--	--
JAN.											
04...	0945	400	7.5	64	0	52	6.7	--	--	--	--
FEB.											
10...	1515	684	--	--	--	--	--	--	.05	.23	.28
MAR.											
06...	0945	3140	--	--	--	--	--	--	--	--	--
APR.											
11...	1330	1800	--	--	--	--	--	.00	.00	.05	.05
MAY											
11...	0850	1050	--	--	--	--	--	.00	.00	.07	.07
17...	1300	1070	3.2	49	0	40	2.8	--	--	--	--
JUNE											
13...	0900	640	--	--	--	--	--	.02	.02	.21	.23
JULY											
13...	1830	257	--	--	--	--	--	.00	.00	.11	.11
18...	1330	240	--	--	--	--	--	--	--	--	--
AUG.											
13...	1045	190	--	--	--	--	--	.00	.00	.15	.15
SEP.											
07...	1300	205	--	--	--	--	--	--	--	--	--
13...	1715	207	--	--	--	--	--	.00	.00	.09	.09

DATE	TOTAL PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	TURBIDITY (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	DISSOLVED BORON (B) (UG/L)
OCT.											
21...	.08	--	--	--	--	--	9.5	--	--	--	--
NOV.											
16...	--	--	--	--	--	--	5.5	0	--	--	--
DEC.											
02...	.03	--	--	--	--	--	6.0	--	--	--	--
JAN.											
04...	--	51	0	.5	130	7.7	1.5	--	3	--	100
FEB.											
10...	.04	--	--	--	--	--	6.5	--	--	--	--
MAR.											
06...	--	--	--	--	--	--	7.0	28	--	--	--
APR.											
11...	.02	--	--	--	--	--	7.0	--	--	--	--
MAY											
11...	.05	--	--	--	--	--	10.5	--	--	--	--
17...	--	39	0	.2	88	7.6	11.0	0	--	--	0
JUNE											
13...	.10	--	--	--	--	--	15.0	--	--	--	--
JULY											
13...	.04	--	--	--	--	--	24.0	--	--	.6	--
18...	--	--	--	--	--	--	24.0	0	--	--	--
AUG.											
13...	.05	--	--	--	--	--	19.0	--	--	.6	--
SEP.											
07...	--	--	--	--		--	18.0	0	--	--	--
13...	.08	--	--	--	--	--	16.5	--	--	.6 .6	--

11342000 SACRAMENTO RIVER AT DELTA, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.									
21...	1730	272	141	9.0	9.5	11.1	101	50	8
NOV.									
16...	1015	342	133	7.6	5.5	12.7	--	--	--
DEC.									
02...	0910	661	126	8.0	6.0	11.7	98	560	110
JAN.									
04...	0945	400	127	8.1	1.5	13.9	--	--	--
FEB.									
10...	1515	684	108	8.0	6.5	12.0	101	44	2
MAR.									
06...	0945	3140	91	7.3	7.0	11.6	--	--	--
APR.									
11...	1330	1800	80	7.8	7.0	11.6	99	300	30
MAY									
11...	0850	1050	87	7.9	10.5	10.8	100	--	4
17...	1300	1070	100	7.7	11.0	11.2	--	--	--
JUNE									
13...	0900	640	107	7.9	15.0	9.6	98	3800	30
JULY									
13...	1830	257	136	8.7	24.0	8.4	102	--	4
18...	1330	240	119	8.3	24.0	8.8	--	--	--
AUG.									
13...	1045	190	148	8.4	19.0	9.6	107	14000	28
SEP.									
07...	1300	205	149	8.1	18.0	10.0	--	--	--
13...	1715	207	146	8.6	16.5	10.0	105	1400	0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	7.5	9.5	5.5	6.5	5.0	5.0	2.5	5.0	2.5	6.0	5.0
2	15.0	9.0	10.5	6.0	6.0	5.0	5.0	3.0	4.0	2.0	7.0	6.0
3	16.5	10.5	10.5	6.0	5.0	4.0	3.5	2.0	4.5	2.5	8.0	7.0
4	17.5	12.0	10.5	6.0	5.0	3.0	2.5	1.0	5.5	4.5	9.0	7.0
5	18.0	12.5	11.0	7.5	5.5	4.5	4.0	1.0	6.0	5.0	11.0	7.0
6	18.0	12.5	10.0	6.5	7.0	5.0	5.0	2.5	5.5	5.0	11.0	6.5
7	19.0	14.0	9.5	5.5	5.0	3.0	4.5	2.5	7.0	4.0	11.0	6.5
8	19.5	14.5	8.0	6.0	5.0	3.0	4.5	2.5	6.0	4.5	11.0	6.5
9	19.0	14.0	7.5	7.0	5.0	4.0	4.5	2.0	7.5	3.5	10.5	8.0
10	18.5	14.0	9.0	7.0	4.0	3.5	4.5	2.0	7.0	4.0	8.5	7.5
11	18.5	13.5	10.0	9.0	4.0	3.0	4.5	2.5	7.0	4.5	9.0	7.0
12	18.5	13.5	9.5	9.0	3.5	1.5	5.5	3.0	6.5	4.0	9.0	7.5
13	18.0	13.5	9.5	8.0	3.5	1.5	6.0	4.0	7.5	4.5	11.0	7.5
14	16.0	13.0	8.5	6.0	3.0	2.5	6.0	4.0	6.0	4.5	11.5	6.5
15	13.0	9.5	7.5	5.0	4.0	3.0	6.5	4.0	7.5	4.5	12.5	7.0
16	10.5	7.0	8.0	4.5	4.0	2.0	5.5	3.0	8.0	4.5	13.0	8.0
17	10.0	6.5	8.0	5.0	4.5	3.0	5.0	3.5	7.5	4.0	13.0	7.5
18	10.0	7.5	9.0	5.5	4.5	2.0	6.0	5.0	6.5	4.5	11.5	8.0
19	9.5	9.0	9.0	5.5	4.0	2.0	5.5	5.0	6.5	6.0	11.0	6.5
20	12.0	9.0	10.5	7.0	3.5	1.5	5.5	5.0	7.5	6.0	11.5	6.5
21	12.0	8.0	10.0	7.5	3.0	1.5	6.0	5.5	6.5	6.0	11.0	7.5
22	10.5	8.5	10.0	7.0	1.5	0.5	7.0	6.0	6.0	3.5	11.0	7.0
23	11.0	9.5	8.0	6.5	3.5	1.5	7.0	5.5	5.5	3.5	10.0	6.0
24	11.0	7.5	8.0	7.0	5.0	3.5	5.5	3.5	7.0	5.0	9.0	6.5
25	11.0	6.5	8.5	7.0	4.5	4.5	5.5	3.0	6.0	4.5	7.0	5.0
26	10.0	7.5	8.0	7.0	4.5	3.0	4.0	2.5	7.0	4.5	7.5	3.0
27	9.5	7.0	7.0	6.5	4.5	3.0	3.0	1.0	7.5	6.5	9.5	3.5
28	8.0	5.0	7.5	7.0	3.5	2.0	3.5	2.5	7.5	6.5	9.0	4.0
29	7.5	3.5	8.0	7.0	3.5	2.5	3.0	1.0	7.5	5.5	10.5	5.0
30	6.0	5.5	8.0	6.0	5.0	3.5	4.0	1.5	---	---	11.0	5.5
31	7.5	4.0	---	---	4.5	2.5	4.0	2.0	---	---	9.5	7.0
MONTH	19.5	3.5	11.0	4.5	7.0	0.5	7.0	1.0	8.0	2.0	13.0	3.0

11342000 SACRAMENTO RIVER AT DELTA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.0	15.0	9.0	20.0	15.5	26.0	20.5	25.0	18.5	23.5	18.0
2	12.5	8.5	16.0	10.0	19.5	17.0	25.0	20.0	25.0	19.0	22.5	18.5
3	12.0	8.5	16.5	10.5	20.0	16.0	26.0	20.5	24.5	19.0	23.0	18.0
4	13.0	10.0	17.0	11.5	21.0	16.0	25.5	21.0	25.5	19.0	23.0	18.0
5	12.0	8.0	16.5	12.0	21.5	17.5	25.0	19.5	26.0	20.0	22.5	18.0
6	9.5	8.0	15.0	11.5	21.5	18.5	24.5	19.0	26.5	20.0	21.5	16.5
7	11.0	7.0	14.5	9.0	21.5	18.5	24.0	18.5	27.0	21.5	21.0	16.0
8	10.0	7.0	13.5	8.0	20.5	18.5	24.0	18.5	27.5	22.0	21.0	15.5
9	10.0	6.0	15.0	9.0	19.0	12.0	24.0	19.0	27.0	22.5	20.5	15.5
10	10.0	7.0	16.0	10.0	12.5	10.5	24.0	18.0	27.5	22.5	19.5	15.0
11	9.5	6.5	17.0	11.0	16.0	10.0	25.5	19.0	26.0	21.5	17.0	13.5
12	7.5	5.5	18.0	12.0	18.0	13.0	27.0	20.5	24.0	20.0	16.5	10.5
13	10.5	4.5	18.5	12.5	19.0	15.0	27.5	21.0	23.5	18.5	18.5	12.0
14	12.0	5.5	18.0	12.5	20.0	15.5	28.0	21.5	21.5	17.5	19.5	13.0
15	13.0	7.5	17.5	12.0	21.0	16.5	29.5	23.0	19.5	17.0	20.5	14.0
16	12.5	9.0	16.5	12.0	21.5	17.0	29.0	23.0	18.0	14.5	19.5	14.5
17	11.0	6.0	14.5	10.0	21.0	17.0	28.5	23.5	18.0	11.5	19.5	14.5
18	10.0	5.0	14.5	10.5	21.5	17.0	27.5	23.5	18.5	14.0	18.5	14.5
19	11.5	5.5	13.5	10.5	21.5	16.5	26.5	22.5	20.5	15.0	17.5	14.0
20	12.5	7.0	13.0	9.0	22.0	18.0	24.5	20.0	20.5	16.0	17.5	12.0
21	14.0	9.5	9.5	8.5	22.0	17.5	24.5	19.5	22.0	16.0	17.0	12.0
22	13.0	8.5	15.0	9.0	21.0	17.0	24.5	19.0	23.0	16.5	18.0	13.5
23	12.5	8.5	16.0	12.0	19.0	13.5	24.5	19.5	23.5	17.5	15.5	11.5
24	11.0	8.0	17.0	13.0	18.5	12.5	24.0	18.5	23.0	17.5	15.5	10.5
25	12.5	6.5	17.0	13.0	20.5	14.5	24.0	18.0	24.5	18.0	13.5	10.5
26	14.5	8.5	18.5	13.5	21.5	16.0	24.0	18.0	25.0	20.5	11.0	10.0
27	15.0	10.0	19.5	15.0	22.0	17.0	25.0	18.0	25.0	20.5	15.0	11.0
28	14.0	10.5	20.0	15.5	24.5	18.5	25.5	19.0	24.0	19.5	17.5	12.5
29	11.5	6.5	20.5	16.0	25.5	19.0	23.5	19.0	24.0	19.5	18.0	12.5
30	13.0	7.0	21.0	16.0	26.0	20.5	23.0	16.5	24.5	18.5	18.0	13.0
31	---	---	20.5	16.5	---	---	25.0	18.0	24.0	18.5	---	---
MONTH	15.0	4.5	21.0	8.0	26.0	10.0	29.5	16.5	27.5	11.5	23.5	10.0

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 miles southwest of Canby.

DRAINAGE AREA.--1,431 sq mi, 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).
Water temperatures: March 1965 to September 1972.
Sediment records: Water years 1957-61, 1967-70 (partial-record station).

EXTREMES, 1971-72:
Water temperatures: Minimum, freezing point on many days during winter period.

Period of record:
Water temperatures: Maximum (1965-71), 30.5°C Aug. 12, 1971; minimum (1965-66, 1967-69, 1970-72), freezing point on many days during most years.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Recorder malfunction Dec. 8-23, July 4, 5, 9-27. Clock stopped Dec. 29 to Jan. 10, Jan. 29 to Feb. 7, Sept. 12-26; range in temperature, 0.0°C to 3.0°C, 0.0°C to 5.0°C, and 9.5°C to 21.0°C, respectively.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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...	1530	--	114	19	7.9	19	4.8	128
NOV.								
17...	1300	--	133	--	--	--	--	--
DEC.								
06...	1530	--	163	--	--	--	--	--
JAN.								
05...	1245	--	97	--	--	--	--	--
FEB.								
02...	1535	75	--	--	--	--	--	--
MAR.								
07...	1230	--	2760	--	--	12	--	69
APR.								
05...	1600	--	671	--	--	5.2	--	87
MAY								
16...	0745	--	224	--	--	15	--	104
JUNE								
16...	0830	--	243	--	--	--	--	--
JULY								
18...	0830	--	18	--	--	--	--	--
AUG.								
10...	0830	--	75	--	--	18	--	112
SEP.								
07...	0815	--	64	--	--	--	--	--

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 NITRATE (N) (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)
OCT.									
12...	0	105	8.6	4.8	.23	140	.19	43.1	80
NOV.									
17...	--	--	--	--	--	--	--	--	--
DEC.									
06...	--	--	--	--	--	--	--	--	--
JAN.									
05...	--	--	--	--	--	--	--	--	--
FEB.									
02...	--	--	--	--	--	--	--	--	--
MAR.									
07...	0	57	--	3.6	--	--	--	--	48
APR.									
05...	0	71	--	2.2	--	--	--	--	58
MAY									
16...	0	85	--	2.5	--	--	--	--	67
JUNE									
16...	--	--	--	--	--	--	--	--	--
JULY									
18...	--	--	--	--	--	--	--	--	--
AUG.									
10...	0	92	--	5.6	--	--	--	--	79
SEP.									
07...	--	--	--	--	--	--	--	--	--

11348500 PIT RIVER NEAR CANBY, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	NON-CARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.								
12...	0	32	.9	248	7.9	15.5	--	200
NOV.								
17...	--	--	--	--	--	2.5	12	--
DEC.								
06...	--	--	--	--	--	2.0	22	--
JAN.								
05...	--	--	--	--	--	.0	9	--
FEB.								
02...	--	--	--	--	--	.0	--	--
MAR.								
07...	0	--	.8	137	7.2	8.0	62	0
APR.								
05...	0	--	.3	171	7.7	11.0	26	0
MAY								
16...	0	--	.8	193	7.8	15.0	16	100
JUNE								
16...	--	--	--	--	--	21.5	27	--
JULY								
18...	--	--	--	--	--	22.0	42	--
AUG.								
10...	0	--	.9	209	7.3	21.0	40	200
SEP.								
07...	--	--	--	--	--	16.0	35	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DISCHARGE (CFS)	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
12...	1530	--	114	236	7.9	15.5	9.5
NOV.							
17...	1300	--	133	238	8.1	2.5	13.0
DEC.							
06...	1530	--	163	283	7.7	2.0	12.0
JAN.							
05...	1245	--	97	262	7.5	.0	12.7
FEB.							
02...	1535	75	--	268	7.4	.0	11.9
MAR.							
07...	1230	--	2760	144	7.3	8.0	9.5
APR.							
05...	1600	--	671	170	7.6	11.0	9.5
MAY							
16...	0745	--	224	198	7.7	15.0	7.7
JUNE							
16...	0830	--	243	178	7.7	21.5	7.3
JULY							
18...	0830	--	18	211	8.0	22.0	6.6
AUG.							
10...	0830	--	75	~~209~~	7.6	21.0	7.0
SEP.							
07...	0815	--	64	250	7.9	16.0	8.3

11348500 PIT RIVER NEAR CANBY, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	3.5	2.5	1.0	1.5	0.0	---	---	---	---	3.5	1.5
2	11.0	6.0	3.0	1.0	3.5	0.0	---	---	---	---	5.0	2.0
3	12.5	7.5	4.0	0.0	4.5	0.0	---	---	---	---	8.5	5.0
4	14.5	9.5	3.5	0.5	5.5	0.0	---	---	---	---	10.0	6.0
5	16.5	10.5	3.0	0.5	5.5	0.0	---	---	---	---	11.0	6.5
6	17.5	11.5	7.0	1.0	5.0	2.0	---	---	---	---	11.0	6.5
7	18.0	13.5	6.0	2.5	2.0	0.0	---	---	---	---	12.0	6.0
8	18.5	13.0	5.0	1.5	---	---	---	---	1.0	0.0	13.0	6.0
9	19.0	13.5	7.0	2.5	---	---	---	---	1.0	0.0	12.0	7.5
10	18.5	14.0	8.0	3.5	---	---	---	---	1.5	0.0	11.0	8.0
11	18.0	13.0	7.5	5.0	---	---	0.5	0.0	1.0	0.0	12.0	7.5
12	18.0	12.5	6.5	4.5	---	---	0.5	0.5	3.0	0.0	11.0	8.5
13	17.5	13.0	5.0	3.0	---	---	1.0	0.0	4.0	2.0	11.5	8.0
14	17.0	13.0	3.0	1.5	---	---	1.0	0.0	3.0	1.0	12.0	6.0
15	13.5	7.0	4.0	0.0	---	---	1.0	0.0	3.0	1.0	13.5	7.5
16	7.0	4.0	3.5	0.0	---	---	1.0	0.0	5.0	1.0	15.5	8.5
17	6.0	3.5	3.0	0.0	---	---	1.0	0.5	6.0	2.0	16.0	10.5
18	7.5	3.0	3.0	0.5	---	---	1.0	0.5	5.0	2.0	14.5	11.0
19	8.0	5.0	4.0	0.0	---	---	1.0	0.5	7.5	3.5	12.0	8.5
20	7.0	6.0	5.5	0.5	---	---	1.0	0.5	7.5	5.5	12.0	6.5
21	9.0	5.0	5.5	2.0	---	---	1.5	1.0	6.5	5.0	13.0	8.0
22	10.0	5.5	7.0	3.0	---	---	4.0	1.5	6.0	2.5	12.0	9.0
23	9.0	6.5	4.0	2.0	---	---	4.0	1.0	3.0	1.0	10.5	7.0
24	6.5	5.5	4.0	2.0	1.0	0.0	2.0	0.0	1.5	0.5	10.0	7.5
25	5.5	4.5	5.0	0.5	0.5	0.0	1.0	0.0	2.0	0.5	8.5	5.0
26	5.5	4.5	4.0	1.5	3.0	0.0	5.5	0.5	4.0	1.5	6.0	2.5
27	5.5	4.0	2.5	0.5	3.5	0.0	5.5	1.5	6.0	3.5	7.5	2.0
28	5.0	4.0	1.5	0.0	3.0	0.0	5.5	0.0	6.5	4.5	7.5	4.0
29	4.0	3.5	1.0	0.0	---	---	---	---	5.0	2.0	9.0	4.5
30	4.5	3.5	0.0	0.0	---	---	---	---	---	---	11.5	6.0
31	4.0	1.0	---	---	---	---	---	---	---	---	11.0	8.0
MONTH	19.0	1.0	8.0	0.0	---	---	---	---	---	---	16.0	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	9.5	17.5	11.5	23.5	19.0	28.0	21.5	23.0	14.5	23.5	19.5
2	12.0	9.0	19.5	13.5	24.0	20.0	27.5	20.0	23.5	14.5	24.5	19.5
3	13.0	9.5	21.5	15.0	24.0	18.0	27.0	19.5	25.0	13.5	24.0	19.5
4	15.0	11.0	22.0	16.5	25.0	19.0	---	---	23.5	14.0	22.5	17.0
5	14.0	11.0	21.5	18.0	26.0	21.0	---	---	25.0	18.5	19.5	15.5
6	11.0	9.5	20.5	16.5	25.0	22.5	24.5	15.5	32.0	18.5	20.5	15.5
7	10.5	7.5	17.0	13.0	23.0	20.5	23.0	13.5	28.0	19.5	20.5	15.5
8	10.5	7.5	17.0	11.5	21.5	18.5	23.5	13.5	27.5	18.5	21.0	16.0
9	11.5	8.0	17.0	11.5	20.5	18.0	---	---	28.0	17.5	21.0	16.0
10	10.0	8.5	19.0	13.5	18.0	15.0	---	---	26.0	17.5	19.5	15.0
11	9.5	7.0	20.0	14.5	19.0	13.5	---	---	24.5	17.0	16.0	12.0
12	7.0	4.0	21.0	16.0	20.5	15.0	---	---	23.5	13.5	---	---
13	6.5	3.0	23.0	17.5	23.0	17.5	---	---	21.0	12.5	---	---
14	9.5	4.0	22.0	19.0	23.5	20.0	---	---	19.5	14.0	---	---
15	13.5	7.5	22.0	17.0	24.5	20.0	---	---	18.0	12.0	---	---
16	14.0	11.0	19.0	14.0	24.5	20.0	---	---	14.5	11.0	---	---
17	12.0	8.5	16.5	15.0	25.0	20.0	---	---	17.5	10.0	---	---
18	9.5	5.5	15.0	13.0	26.0	20.0	---	---	19.0	12.5	---	---
19	11.0	5.5	15.0	11.5	26.0	19.0	---	---	21.0	14.5	---	---
20	13.0	8.0	13.5	10.0	26.0	19.0	---	---	20.5	13.5	---	---
21	15.0	11.5	10.0	8.5	25.5	17.5	---	---	21.5	14.5	---	---
22	16.0	11.0	14.0	8.5	27.0	15.5	---	---	22.5	16.5	---	---
23	15.0	12.0	17.0	11.5	20.5	15.5	---	---	22.5	17.0	---	---
24	13.0	10.5	19.5	15.0	21.5	12.0	---	---	22.5	17.5	---	---
25	14.0	9.0	20.0	15.5	22.5	13.5	---	---	23.5	17.5	---	---
26	15.5	10.0	22.5	16.5	25.0	14.5	---	---	24.5	18.0	---	---
27	17.5	12.0	24.0	19.0	26.0	17.5	---	---	26.0	19.5	13.0	10.5
28	17.0	13.5	25.0	19.5	26.5	17.5	25.0	13.5	26.0	20.0	14.0	10.5
29	14.5	10.5	25.0	20.5	28.0	19.5	20.0	14.0	25.5	20.5	15.5	11.0
30	14.5	9.5	25.0	20.5	28.5	21.0	22.0	13.5	25.5	20.5	17.0	11.5
31	---	---	25.0	21.0	---	---	24.5	15.5	24.5	19.5	---	---
MONTH	17.5	3.0	25.0	8.5	28.5	12.0	---	---	32.0	10.0	---	---

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 mile upstream from Middle Creek, 0.8 mile downstream from Keswick Dam, 1.6 miles downstream from Keswick, and 10 miles downstream from Shasta Dam.

DRAINAGE AREA.--6,468 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--Chemical analyses: Water years 1951 and 1953 (partial-record station), December 1953 to September 1972. Published as "near" in 1951 and 1953; as "at Keswick Dam, near Keswick" in 1968-69.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	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)
OCT.								
26...	1000	6420	5.0	57	0	47	.0	3.0
NOV.								
22...	1130	7100	6.9	66	0	54	2.1	2.4
DEC.								
07...	1100	7090	7.8	69	0	57	--	1.4
JAN.								
06...	1200	7140	8.4	66	0	54	4.9	3.0
FEB.								
09...	1115	7960	7.9	70	0	57	1.8	1.8
MAR.								
13...	1500	15000	7.0	68	0	56	4.4	1.6
APR.								
03...	0640	7400	--	--	--	--	--	--
MAY								
08...	1130	10800	--	--	--	--	--	--
JUNE								
01...	0850	10100	--	--	--	--	--	--
JULY								
26...	0545	11200	5.6	58	0	48	--	2.5
AUG.								
08...	0845	9920	--	--	--	--	--	--
SEP.								
19...	0545	8800	4.6	55	0	45	--	.8

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.								
26...	43	0	.3	106	7.4	12.0	--	0
NOV.								
22...	49	0	.4	128	7.1	11.0	--	0
DEC.								
07...	48	0	.5	127	7.3	10.0	--	100
JAN.								
06...	47	0	.5	125	7.3	9.0	--	100
FEB.								
09...	47	0	.5	126	7.7	7.5	--	0
MAR.								
13...	51	0	.4	124	7.6	8.0	3	0
APR.								
03...	--	--	--	108	--	8.0	3	--
MAY								
08...	--	--	--	--	--	9.0	1	--
JUNE								
01...	--	--	--	--	--	10.0	2	--
JULY								
26...	43	0	.4	109	7.7	10.0	4	100
AUG.								
08...	--	--	--	--	--	11.0	3	--
SEP.								
19...	43	0	.3	104	7.3	11.0	2	0

11370500 SACRAMENTO RIVER AT KESWICK, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
26...	1000	6420	111	7.1	12.0	10.6
NOV.						
22...	1130	7100	--	7.1	11.0	9.3
DEC.						
07...	1100	7090	130	7.2	10.0	10.5
JAN.						
06...	1200	7140	123	7.3	9.0	11.0
FEB.						
09...	1115	7960	123	7.2	7.5	11.6
MAR.						
13...	1500	15000	125	8.1	8.0	10.5
APR.						
03...	0640	7400	109	7.2	8.0	10.2
MAY						
08...	1130	10800	112	7.2	9.0	11.0
JUNE						
01...	0850	10100	103	7.2	10.0	10.6
JULY						
26...	0545	11200	--	7.2	10.0	9.8
AUG.						
08...	0845	9920	99	7.3	11.0	10.2
SEP.						
19...	0545	8800	--	7.1	11.0	9.9

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 mile northeast of Igo, 8.3 miles southwest of Redding, and 10.4 miles upstream from mouth.

DRAINAGE AREA.--228 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), October 1958 to September 1966.
Water temperatures: March 1965 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 18.0°C Aug. 9-11; minimum, 2.5°C Jan. 4, 5, 30.

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.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	12.0	10.0	9.0	8.5	7.0	5.5	4.5	3.5	3.0	7.0	6.0
2	13.0	12.0	10.0	9.0	8.0	7.0	5.5	4.5	4.0	3.0	8.5	7.0
3	13.5	12.5	10.0	8.5	7.0	6.5	4.5	3.0	5.5	4.0	9.5	8.5
4	13.5	13.0	10.5	9.0	8.0	6.5	3.0	2.5	6.0	5.0	10.0	8.5
5	13.5	12.5	10.5	9.0	8.0	7.5	3.5	2.5	6.5	5.5	10.5	8.5
6	13.5	12.5	10.0	8.0	8.0	7.0	4.0	3.0	7.0	6.0	10.5	8.5
7	14.0	13.0	9.5	8.0	7.0	6.5	4.0	3.5	6.5	5.5	10.5	8.5
8	13.5	13.0	10.0	8.5	7.5	6.0	4.0	3.5	6.5	6.0	10.5	8.5
9	14.0	12.5	10.0	8.5	7.5	7.0	4.0	3.0	6.5	5.5	10.5	9.5
10	13.5	12.5	10.0	9.0	7.5	7.0	4.0	3.0	6.0	5.5	10.0	9.5
11	13.5	12.5	10.5	10.0	7.5	6.5	4.5	4.0	6.5	5.5	11.0	9.0
12	13.0	12.0	10.0	9.5	7.5	5.5	5.0	4.0	6.5	5.5	11.0	9.5
13	13.0	12.0	9.5	8.5	7.0	5.5	4.5	3.5	7.0	6.0	10.5	9.5
14	13.0	12.5	9.5	8.0	7.0	6.5	4.5	4.0	6.0	5.5	10.5	9.0
15	12.5	11.0	9.0	7.5	7.0	6.0	5.0	3.5	7.0	6.0	11.0	9.5
16	11.0	10.5	9.0	7.5	6.5	5.5	4.5	4.0	7.5	6.5	11.5	10.5
17	11.0	10.0	8.5	7.5	7.0	6.0	5.5	4.5	7.5	6.5	11.5	10.0
18	10.5	9.5	8.5	7.5	7.0	5.5	6.0	5.5	7.5	7.0	11.5	10.5
19	11.0	10.0	8.5	7.5	6.5	5.5	6.0	6.0	8.0	7.5	10.5	9.0
20	11.0	10.5	9.0	8.0	6.5	5.5	6.5	6.0	8.5	7.5	10.0	9.0
21	11.0	10.0	9.0	8.0	6.0	5.0	7.0	6.5	8.5	7.0	11.0	9.5
22	10.5	10.0	9.0	8.0	6.0	4.5	8.0	7.0	7.0	6.5	11.0	8.5
23	11.0	10.5	9.0	8.0	6.0	5.5	8.0	6.0	7.0	6.0	11.0	8.5
24	10.5	9.5	9.0	8.5	6.5	6.0	6.0	4.5	7.0	6.5	9.5	8.5
25	10.0	9.0	9.5	8.0	6.5	6.0	5.5	4.0	7.0	6.5	9.5	7.5
26	10.0	9.5	9.5	9.0	6.0	5.0	4.5	3.5	7.5	6.5	9.5	7.0
27	10.0	9.0	9.0	8.5	5.5	5.0	3.5	3.0	8.0	7.5	9.5	7.5
28	9.0	8.0	9.5	8.5	5.5	4.5	4.0	3.0	8.5	8.0	9.5	8.0
29	9.0	8.0	8.5	8.0	5.5	5.0	3.5	3.0	8.0	7.0	10.0	8.5
30	9.5	8.5	8.0	7.0	5.5	5.0	3.5	2.5	---	---	10.5	8.5
31	9.0	8.5	---	---	5.5	4.5	3.5	3.0	---	---	10.5	9.5
MONTH	14.0	8.0	10.5	7.0	8.5	4.5	8.0	2.5	8.5	3.0	11.5	6.0

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

11372200 SOUTH COW CREEK NEAR MILLVILLE, CALIF.

LOCATION.--Lat 40°32'56", long 122°05'29", in NW¼NE¼ sec.16, T.31 N., R.2 W., Shasta County, temperature recorder at gaging station on left bank, 2.5 miles upstream from Old Cow Creek, and 4.4 miles east of Millville.

DRAINAGE AREA.--77.3 sq mi.

PERIOD OF RECORD.--Water temperatures: December 1965 to September 1972 (discontinued).

EXTREMES, 1971-72:
Water temperatures: Maximum, 27.0°C July 15; minimum, freezing point Dec. 16-18, Jan. 5.

Period of record:
Water temperatures: Maximum, 31.0°C Aug. 6, 7, 1966; minimum (1965-66, 1967-72), freezing point sometime during period Dec. 6, 1968 to Jan. 14, 1969, Dec. 16-18, 1971, Jan. 5, 1972.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	9.0	6.5	3.0	5.5	2.5	4.0	1.5	5.0	3.5	10.5	9.0
2	13.5	9.0	6.5	3.0	5.0	4.0	4.0	1.5	5.0	2.5	10.0	9.5
3	14.0	9.5	6.5	3.0	4.5	3.0	3.5	2.0	5.0	3.0	10.5	9.5
4	15.0	10.0	7.0	3.5	3.0	1.0	3.0	0.5	5.5	4.0	11.5	9.0
5	15.5	10.5	7.0	4.0	4.5	3.0	2.5	0.0	6.5	5.5	11.5	9.0
6	15.5	11.5	7.0	3.5	5.0	3.5	2.5	0.5	7.0	6.5	11.5	9.0
7	16.5	11.5	6.5	4.0	4.0	2.5	3.0	1.0	7.5	5.5	12.0	9.0
8	16.0	11.5	6.5	4.5	3.0	1.5	3.0	0.5	8.0	6.0	12.0	9.5
9	16.0	12.0	6.5	5.5	4.0	2.5	3.0	0.5	8.0	5.5	11.5	11.0
10	15.5	12.0	8.0	5.5	3.0	2.5	3.0	1.0	8.0	5.0	11.5	10.5
11	15.5	11.0	8.0	7.5	3.0	2.5	3.0	2.0	8.5	6.0	12.0	10.5
12	15.0	11.0	8.0	7.0	3.5	2.5	3.0	2.0	8.5	6.0	12.5	11.5
13	14.5	10.5	8.0	7.0	3.5	1.5	3.5	1.5	9.0	6.5	13.0	11.0
14	13.5	11.5	7.0	4.5	3.0	2.0	4.0	1.0	9.0	7.5	13.0	10.5
15	11.5	10.5	5.5	4.0	3.0	1.5	4.0	1.0	9.5	7.0	12.5	10.5
16	10.5	8.0	5.5	3.0	2.5	0.0	3.5	1.5	9.5	7.0	13.5	10.5
17	10.0	7.0	5.5	2.5	2.5	0.0	4.0	3.0	9.5	6.5	13.5	11.0
18	10.0	7.0	5.5	3.0	3.0	0.0	5.0	4.0	9.5	7.0	13.5	11.5
19	10.0	9.0	5.5	3.0	3.0	0.5	5.5	4.5	9.5	8.5	13.5	10.5
20	10.5	9.0	6.5	3.5	2.5	0.5	6.0	5.5	10.5	9.0	12.0	10.0
21	10.0	7.0	6.5	4.5	2.5	1.5	7.0	6.0	10.5	9.5	12.0	10.0
22	10.0	7.5	6.5	4.0	3.0	1.5	7.5	6.5	10.5	9.0	11.5	11.0
23	9.5	8.5	6.0	4.0	4.0	3.0	8.0	6.5	9.5	8.5	11.5	9.5
24	9.5	6.5	6.0	5.0	4.5	4.0	7.5	5.0	10.0	9.5	11.5	10.5
25	9.0	5.5	6.5	5.0	4.5	4.5	7.0	5.0	10.5	9.5	10.5	9.0
26	8.5	6.0	6.5	6.0	4.5	4.0	5.5	4.0	10.5	9.0	10.5	8.0
27	8.0	5.5	7.0	6.0	5.0	3.5	5.0	4.5	10.5	9.5	9.5	7.0
28	7.0	4.5	7.0	6.0	5.0	2.5	6.0	4.0	11.5	10.0	9.0	7.0
29	5.5	3.5	7.5	6.5	4.0	3.5	6.5	3.5	10.5	9.5	9.5	7.0
30	5.5	4.5	7.0	4.0	4.0	2.5	5.0	2.5	---	---	10.0	7.0
31	6.0	3.0	---	---	4.0	2.0	5.0	3.0	---	---	9.5	7.5
MONTH	16.5	3.0	8.0	2.5	5.5	0.0	8.0	0.0	11.5	2.5	13.5	7.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.5	13.0	9.0	20.5	16.0	25.5	20.0	24.0	19.0	22.0	18.0
2	10.5	8.0	13.5	10.0	20.0	16.0	25.5	21.0	24.0	19.0	22.0	18.5
3	10.5	8.5	14.0	10.5	20.0	15.5	25.5	20.5	24.0	19.0	21.5	18.5
4	11.0	9.0	14.5	11.0	21.0	16.0	25.0	20.0	24.0	20.0	21.5	18.5
5	11.0	10.0	14.5	12.0	22.0	17.0	24.5	19.5	24.0	20.0	21.5	18.5
6	10.0	8.5	14.5	12.5	22.0	18.0	24.5	19.5	24.5	19.5	21.5	18.0
7	10.0	8.0	14.0	12.5	21.5	18.0	24.0	19.5	24.0	20.0	21.0	17.0
8	9.5	7.5	12.5	10.0	21.5	18.5	23.5	19.5	24.5	22.0	20.5	17.0
9	9.0	6.5	13.5	10.0	21.0	18.0	23.5	19.5	25.0	21.5	20.5	17.0
10	8.5	7.0	14.0	11.0	18.0	15.5	24.0	19.0	25.0	22.0	20.0	16.5
11	8.5	7.5	14.5	11.0	18.5	14.0	24.5	19.5	24.5	21.5	18.5	15.5
12	7.5	6.0	15.5	11.5	20.0	15.0	25.5	20.0	23.5	19.5	17.5	13.5
13	9.0	5.0	16.0	12.5	21.0	16.5	25.5	20.5	22.5	18.5	18.5	13.0
14	10.0	7.0	16.0	13.0	22.0	17.5	26.5	21.5	21.5	18.5	17.5	13.0
15	10.5	7.5	16.0	13.0	22.0	18.0	27.0	22.0	20.5	18.0	18.0	13.0
16	11.5	9.0	16.0	13.5	23.5	19.0	26.5	22.0	20.0	17.5	18.0	14.0
17	11.0	8.5	16.0	13.0	24.0	17.5	26.0	22.0	20.0	15.5	18.0	14.0
18	10.0	8.0	15.5	12.0	24.5	18.0	25.5	22.0	20.0	15.5	18.0	14.0
19	10.0	7.0	14.5	12.0	24.5	19.0	25.0	21.0	20.5	17.0	17.0	14.5
20	10.5	7.0	14.0	12.0	24.0	19.5	24.0	20.0	20.5	17.0	17.0	13.0
21	11.5	8.5	12.0	10.5	24.0	20.0	23.0	18.5	21.0	17.5	16.5	13.0
22	11.5	8.5	14.0	9.5	24.0	20.0	23.5	18.0	21.5	17.5	16.5	13.5
23	11.5	9.5	15.5	11.5	23.0	18.5	23.0	18.0	22.0	18.0	16.5	12.5
24	11.5	9.5	16.0	12.0	21.5	16.0	24.0	18.5	22.0	17.5	15.5	12.0
25	11.5	8.5	16.5	12.5	22.5	17.0	23.0	19.0	22.0	18.0	14.5	11.0
26	12.0	9.0	17.5	13.5	23.5	18.0	23.0	18.5	22.0	17.5	13.0	12.5
27	12.5	9.5	18.5	14.5	23.5	18.0	23.5	18.5	22.5	18.5	14.0	12.0
28	13.0	11.0	19.0	15.0	24.5	19.5	24.0	19.0	22.5	19.0	15.0	11.5
29	12.5	10.0	19.5	15.5	25.5	20.0	23.5	19.5	23.0	20.0	15.5	11.5
30	12.0	8.5	20.0	15.5	25.5	20.0	23.0	17.5	22.5	18.5	16.0	12.0
31	---	---	20.0	16.0	---	---	23.5	19.0	22.5	19.0	---	---
MONTH	13.0	5.0	20.0	9.0	25.5	14.0	27.0	17.5	25.0	15.5	22.0	11.0

11374400 MIDDLE FORK COTTONWOOD CREEK NEAR ONO, CALIF.

LOCATION.--Lat 40°22'03", long 122°34'19", in SW¼NW¼sec.17, T.29 N., R.6 W., Shasta County, temperature recorder at gaging station on right bank, 700 ft downstream from Poverty Gulch, 4.6 miles upstream from North Fork, and 7.8 miles southeast of Ono.
DRAINAGE AREA.--244 sq mi.
PERIOD OF RECORD.--Water temperatures: October 1963 to September 1965, July 1968 to September 1972. Prior to June 24, 1970, at site 4.2 miles downstream.
Sediment records: Water years 1963-70 (partial-record station).
EXTREMES, 1971-72:
Water temperatures: Maximum, 36.5°C July 15; minimum, freezing point Dec. 20-23, 26, 27, and probably sometime during period of recorder malfunction.
Period of record:
Water temperatures: Maximum, 36.5°C July 15, 1972; minimum, freezing point on several days in 1968 and 1971.
REMARKS.--Recorder malfunction Oct. 12 to Dec. 19, May 18-23.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	11.5	---	---	---	---	5.5	2.5	5.5	2.5	8.5	7.0
2	21.0	12.5	---	---	---	---	5.5	2.5	4.5	1.5	8.5	6.5
3	22.5	14.0	---	---	---	---	4.0	1.5	6.0	3.0	8.5	6.5
4	23.0	15.5	---	---	---	---	2.5	0.5	6.5	5.5	12.5	7.5
5	24.0	16.0	---	---	---	---	3.5	1.0	7.0	6.0	14.0	9.5
6	24.0	16.5	---	---	---	---	5.0	1.0	7.0	6.0	14.5	9.0
7	24.5	17.0	---	---	---	---	4.5	1.0	9.5	5.0	15.5	10.0
8	24.5	17.5	---	---	---	---	5.5	1.5	9.0	6.5	14.0	9.0
9	24.5	17.5	---	---	---	---	6.0	2.0	10.0	5.5	12.0	10.5
10	23.5	17.0	---	---	---	---	6.0	2.5	10.0	5.5	12.0	10.0
11	23.5	16.5	---	---	---	---	4.0	3.0	10.0	6.5	13.5	9.5
12	---	---	---	---	---	---	4.0	3.5	10.5	6.5	13.0	11.0
13	---	---	---	---	---	---	6.0	2.0	12.0	7.5	16.5	10.5
14	---	---	---	---	---	---	6.5	3.0	10.0	7.0	16.5	10.5
15	---	---	---	---	---	---	6.5	2.5	12.5	7.5	17.5	11.0
16	---	---	---	---	---	---	6.0	2.5	13.5	8.0	18.5	11.5
17	---	---	---	---	---	---	6.5	3.5	13.5	8.0	19.0	12.0
18	---	---	---	---	---	---	8.0	6.0	12.0	8.0	17.5	12.0
19	---	---	---	---	---	---	7.5	7.0	11.5	9.0	15.5	10.0
20	---	---	---	---	2.0	0.0	7.0	7.0	13.0	10.0	16.5	10.0
21	---	---	---	---	1.0	0.0	6.5	5.0	13.5	10.0	16.0	11.0
22	---	---	---	---	1.0	0.0	6.0	5.5	10.5	7.5	14.5	12.0
23	---	---	---	---	2.5	0.5	7.5	5.0	8.5	7.0	15.5	9.5
24	---	---	---	---	2.5	2.5	6.5	4.5	9.5	7.5	12.5	10.0
25	---	---	---	---	3.0	1.5	5.5	4.5	8.0	7.0	13.0	7.5
26	---	---	---	---	1.5	0.0	5.0	3.0	8.5	7.5	12.5	5.5
27	---	---	---	---	1.0	0.0	5.0	3.0	9.5	7.0	13.5	6.5
28	---	---	---	---	2.5	0.5	5.5	2.5	9.0	8.5	14.0	7.0
29	---	---	---	---	3.0	2.5	5.5	2.0	10.0	7.5	15.5	7.5
30	---	---	---	---	4.0	2.5	5.5	1.5	---	---	16.5	8.5
31	---	---	---	---	5.0	2.0	5.5	1.5	---	---	13.5	10.0
MONTH	---	---	---	---	---	---	8.0	0.5	13.5	1.5	19.0	5.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	11.5	24.0	14.0	30.0	20.0	35.0	24.5	32.0	21.0	30.5	21.5
2	19.5	11.5	25.0	15.5	26.5	20.5	35.0	25.0	33.0	22.5	30.5	22.5
3	19.0	13.0	25.5	16.0	29.0	18.5	34.5	23.0	31.5	22.5	30.5	21.5
4	19.5	13.0	25.5	17.0	31.0	19.5	34.0	23.5	32.5	22.5	29.5	21.5
5	18.0	13.0	25.0	17.0	32.0	21.5	33.5	23.0	33.0	23.0	29.5	21.0
6	17.5	12.5	23.5	17.0	29.0	22.5	32.5	22.0	33.5	22.5	28.5	19.5
7	17.0	10.0	19.0	15.0	30.5	21.5	32.0	22.0	34.0	24.0	28.5	19.5
8	15.0	10.0	21.5	12.0	29.5	20.5	32.0	22.0	33.5	24.5	28.5	20.0
9	15.5	9.0	24.0	14.0	22.0	16.5	31.5	21.0	33.5	25.0	27.0	18.5
10	16.0	10.5	25.0	16.0	20.0	14.5	32.5	21.0	34.0	25.0	25.5	17.5
11	14.0	10.5	26.0	16.5	26.0	13.5	34.0	22.5	32.5	24.5	23.5	17.0
12	14.0	9.5	27.0	17.5	29.5	18.0	35.5	24.5	31.0	22.5	24.5	15.5
13	15.5	6.5	28.0	18.0	31.0	20.0	34.5	24.0	30.0	20.5	25.5	16.0
14	18.0	9.0	26.5	19.0	31.5	20.5	35.0	25.0	29.0	21.0	26.0	16.5
15	19.0	11.0	27.5	18.5	32.0	21.5	36.5	26.0	27.5	19.5	28.0	18.0
16	18.0	12.0	21.5	16.5	31.5	20.0	36.0	27.0	23.5	19.5	27.5	19.5
17	16.5	9.5	23.5	13.5	32.5	21.0	35.5	26.5	28.0	17.5	27.5	19.0
18	15.5	8.5	---	---	33.5	22.0	33.5	26.0	27.0	19.0	25.5	18.5
19	17.5	8.5	---	---	33.5	23.0	32.0	24.0	28.5	19.5	25.0	17.5
20	19.0	10.0	---	---	33.5	23.5	31.0	23.0	29.0	21.5	24.5	16.5
21	20.5	12.5	---	---	33.0	22.5	31.5	21.5	30.5	20.5	24.5	17.5
22	20.0	11.5	---	---	31.5	22.0	32.0	21.5	31.0	21.5	25.0	18.0
23	18.0	13.0	---	---	23.5	20.0	32.0	22.5	30.5	21.5	21.5	15.0
24	17.0	11.5	26.0	16.0	29.5	17.0	32.0	22.0	30.5	21.0	22.0	14.0
25	19.0	10.5	27.0	17.0	31.5	19.5	31.5	21.5	30.5	22.0	18.0	15.0
26	21.5	12.5	28.5	18.0	32.5	21.0	31.5	22.0	32.0	22.0	17.5	16.0
27	22.5	14.0	30.0	19.5	34.5	22.5	33.0	21.5	32.0	22.5	21.5	16.0
28	18.5	12.0	30.0	21.0	35.0	23.5	33.0	22.5	32.0	23.0	24.5	16.0
29	19.0	10.0	30.0	20.5	36.0	24.0	27.0	22.5	27.0	23.0	25.5	16.5
30	21.0	11.5	30.0	20.5	35.5	25.0	31.0	20.0	31.0	21.5	25.5	17.0
31	---	---	29.5	20.0	---	---	32.0	21.5	31.0	22.0	---	---
MONTH	22.5	6.5	30.0	12.0	36.0	13.5	36.5	20.0	34.0	17.5	30.5	14.0

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 miles east of Cottonwood, and 2.5 miles upstream from mouth. Prior to Sept. 13, 1972, at site 350 ft downstream.

DRAINAGE AREA.--927 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1972.
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.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.								
26...	0800	96	--	--	--	--	--	--
NOV.								
22...	1430	96	--	--	--	--	--	--
DEC.								
07...	0930	304	--	--	--	--	--	--
JAN.								
06...	1000	260	17	141	0	116	19	140
FEB.								
09...	0900	508	12	127	4	111	12	128
MAR.								
02...	1015	1660	6.4	101	0	83	4.4	88
APR.								
14...	0915	564	7.3	106	0	87	5.3	92
MAY								
08...	0855	340	--	--	--	--	--	--
JUNE								
01...	0800	214	--	--	--	--	--	--
JULY								
21...	0915	57	7.8	106	0	87	5.4	80
AUG.								
08...	0800	59	--	--	--	--	--	--
SEP.								
22...	0815	52	--	--	--	--	--	--

DATE	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.							
26...	--	--	--	--	12.0	3	--
NOV.							
22...	--	--	--	--	12.0	0	--
DEC.							
07...	--	--	--	--	5.0	2	--
JAN.							
06...	24	.6	333	7.9	4.0	--	0
FEB.							
09...	17	.5	298	8.6	6.0	3	0
MAR.							
02...	5	.3	193	7.7	8.0	34	0
APR.							
14...	5	.3	208	--	11.0	2	0
MAY							
08...	--	--	--	--	14.5	1	--
JUNE							
01...	--	--	--	--	21.0	1	--
JULY							
21...	0	.4	199	7.3	21.0	1	0
AUG.							
08...	--	--	--	--	22.5	2	--
SEP.							
22...	--	--	--	--	17.0	1	--

11376000 COTTONWOOD CREEK NEAR COTTONWOOD, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
26...	0800	96	235	7.1	12.0	8.8
NOV.						
22...	1430	96	276	7.8	12.0	12.3
DEC.						
07...	0930	304	343	7.6	5.0	12.4
JAN.						
06...	1000	260	307	7.7	4.0	13.4
FEB.						
09...	0900	508	288	8.6	6.0	11.9
MAR.						
02...	1015	1660	183	7.7	8.0	11.5
APR.						
14...	0915	564	203	8.0	11.0	11.1
MAY						
08...	0855	340	214	7.4	14.5	11.2
JUNE						
01...	0800	214	206	7.4	21.0	7.3
JULY						
21...	0915	57	--	7.1	21.0	9.2
AUG.						
08...	0800	59	198	7.0	22.5	6.7
SEP.						
22...	0815	52	182	7.0	17.0	8.5

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, 300 ft upstream from gaging station, 3.7 miles downstream from Spring Branch, 5.7 miles upstream from mouth, and 7.0 miles east of Cottonwood.
DRAINAGE AREA.--357 sq mi.
PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1966.
Water temperatures: December 1965 to September 1972.
Sediment records: Water years 1962-70 (partial-record station).
EXTREMES, 1971-72:
Water temperatures: Maximum, 20.5°C July 14-16; minimum, 4.0°C Jan. 30.
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. 20-27.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	9.5	14.0	11.0	16.5	14.5	19.0	16.5	18.0	15.5	16.5	15.0
2	12.0	10.0	15.0	12.0	16.0	14.5	19.0	16.5	18.0	15.5	17.0	15.0
3	13.0	10.5	14.5	12.0	16.0	13.5	18.5	16.5	18.0	15.5	16.5	14.5
4	13.0	11.0	14.5	13.0	17.0	14.0	18.5	16.0	18.0	15.5	16.5	15.0
5	13.0	10.5	14.5	13.0	18.0	15.5	18.5	16.5	18.0	15.5	17.0	15.0
6	11.0	9.5	14.5	12.0	18.0	16.0	18.5	16.0	18.0	15.5	16.5	15.0
7	10.0	9.0	13.5	10.5	18.0	15.5	18.0	15.5	19.0	16.0	16.0	14.5
8	10.0	8.5	12.0	9.5	18.0	15.5	18.0	15.5	19.0	16.5	16.0	14.5
9	10.0	8.5	13.5	10.5	16.0	13.0	17.0	15.5	19.5	17.0	15.5	14.0
10	10.0	9.0	14.5	11.5	14.0	11.5	18.5	15.5	19.5	17.0	15.0	13.5
11	10.0	9.0	15.0	12.0	14.5	11.0	19.0	16.5	19.0	17.0	17.0	13.0
12	9.0	7.0	15.5	13.0	16.0	13.5	20.0	17.0	18.5	15.5	14.0	11.5
13	9.0	5.5	16.0	13.5	17.0	14.5	20.0	18.0	16.5	15.0	14.5	12.0
14	10.5	7.0	15.5	14.0	17.0	15.0	20.5	18.0	16.5	14.5	14.5	13.0
15	11.5	9.5	15.5	13.5	17.0	15.5	20.5	18.5	16.0	14.0	15.0	13.0
16	12.0	10.0	15.0	13.0	17.0	15.5	20.5	18.5	15.5	13.0	15.0	13.5
17	10.5	9.5	14.5	12.0	17.0	15.0	20.0	18.5	15.0	12.0	15.0	13.5
18	10.0	8.5	14.0	12.0	18.0	15.5	20.0	18.0	15.5	13.5	14.5	13.0
19	10.5	8.0	13.5	11.0	18.0	16.0	19.5	17.0	16.0	14.0	14.0	13.0
20	11.5	9.0	11.5	9.5	18.0	16.0	19.0	16.5	16.0	14.0	14.0	12.0
21	12.0	10.0	10.0	9.0	18.0	16.0	18.0	15.5	16.5	14.5	13.5	11.5
22	12.0	10.0	13.5	9.0	17.0	15.5	18.0	15.5	16.5	14.5	14.0	12.0
23	12.0	10.5	14.5	11.5	16.5	13.0	18.5	16.0	17.0	14.5	13.5	11.0
24	11.5	10.0	15.0	12.0	15.5	12.0	18.0	16.0	17.0	15.0	12.0	10.5
25	11.5	9.0	15.5	13.0	16.0	13.5	18.0	15.5	17.0	15.0	11.0	10.5
26	13.5	10.0	16.0	13.5	16.5	14.5	18.0	15.5	17.0	15.5	11.5	11.0
27	14.0	11.0	16.5	14.0	18.0	15.5	18.5	15.5	18.0	15.5	13.5	11.5
28	13.5	11.5	17.0	15.0	18.5	16.0	18.5	16.0	18.0	15.5	14.5	11.5
29	11.5	9.5	17.0	15.0	19.0	16.5	18.5	15.5	18.0	16.0	14.0	12.0
30	12.0	9.5	17.0	15.0	19.0	16.0	18.0	14.5	18.0	15.5	14.5	13.0
31	---	---	17.0	15.0	---	---	18.5	16.0	17.0	15.5	---	---
MONTH	14.0	5.5	17.0	9.0	19.0	11.0	20.5	14.5	19.5	12.0	17.0	10.5

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 miles upstream from Bend Bridge, and 8.1 miles northeast of Red Bluff.

DRAINAGE AREA.--8,900 sq mi, excluding Goose Lake basin.

PERIOD OF RECORD.--Water temperatures: March 1970 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 15.0°C on many days during October, and July to September; minimum, 6.0°C Jan. 26, 27.

Period of record:
Water temperatures: Maximum, 15.5°C on several days in 1970; minimum, 6.0°C Jan. 26, 27, 1972.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.0	12.0	9.5	14.0	11.0	14.5	11.0	14.5	11.5	15.0	12.5
2	11.5	9.5	12.5	10.0	14.0	11.5	14.0	11.0	14.5	11.5	15.0	13.5
3	12.0	10.5	12.5	10.5	14.0	11.0	14.0	11.0	14.0	12.0	15.0	13.5
4	12.0	10.5	13.0	10.5	14.0	11.0	14.0	11.0	14.5	11.5	15.0	13.0
5	12.0	10.5	12.5	10.5	14.5	11.5	14.0	11.0	14.5	12.0	15.0	13.0
6	11.5	10.5	12.5	10.5	14.0	11.0	14.0	11.0	14.5	12.0	14.5	13.0
7	10.5	9.5	12.0	10.0	14.0	11.0	14.0	11.0	15.0	12.5	14.5	13.0
8	10.5	9.5	11.5	9.5	14.0	11.0	14.0	11.0	14.5	12.5	14.5	13.0
9	10.5	9.5	12.5	10.0	13.5	10.5	14.0	11.0	14.5	12.5	14.5	13.0
10	10.5	9.5	13.0	10.5	11.5	10.0	14.0	11.0	15.0	12.5	14.5	13.0
11	10.5	9.5	13.0	10.5	13.0	10.0	14.0	11.0	15.0	13.0	14.5	12.5
12	9.5	8.5	13.5	11.0	13.5	10.5	14.5	11.5	14.5	12.5	14.0	12.0
13	10.0	8.0	14.0	11.0	14.0	10.5	14.5	11.5	14.5	12.0	14.0	12.5
14	11.0	9.0	13.5	11.0	14.0	10.5	15.0	11.5	14.0	12.0	14.5	13.0
15	12.0	10.0	13.0	10.5	14.0	10.5	14.5	11.5	14.0	12.0	15.0	13.5
16	12.0	10.5	13.0	10.5	14.0	11.0	14.5	11.5	14.0	11.5	15.0	14.0
17	11.5	9.5	12.5	10.0	14.0	10.5	14.5	11.5	14.0	11.5	15.0	13.5
18	10.5	9.0	12.5	10.0	14.0	10.5	14.5	12.0	14.0	11.5	14.5	13.5
19	10.5	9.0	12.0	10.0	14.0	10.5	14.5	12.0	14.5	12.0	14.5	12.5
20	11.0	9.5	11.0	9.5	14.0	11.0	14.5	11.5	15.0	12.0	14.0	12.5
21	11.5	9.5	10.0	9.5	14.0	11.0	14.5	11.5	15.0	12.0	14.5	13.0
22	11.5	9.5	12.0	9.5	13.5	11.0	14.5	11.5	15.0	12.5	14.5	13.5
23	11.5	10.0	13.0	10.0	13.0	10.5	14.5	11.5	15.0	12.5	14.0	12.5
24	11.0	9.5	13.5	10.5	13.0	10.0	14.5	11.5	15.0	13.0	14.0	12.5
25	11.5	9.5	13.5	10.5	14.0	10.5	14.5	11.5	15.0	13.0	13.5	12.5
26	12.0	10.0	13.5	10.5	14.0	11.0	14.5	11.5	15.0	13.0	13.0	12.0
27	12.5	10.5	14.0	11.0	14.0	11.0	14.5	11.5	15.0	13.0	14.0	12.5
28	12.5	10.5	14.0	11.0	14.0	11.0	14.0	11.5	15.0	13.0	14.0	13.0
29	11.5	9.5	14.0	11.0	14.5	11.0	14.0	11.5	15.0	13.0	14.5	13.0
30	11.5	9.5	14.0	11.0	14.5	11.0	14.5	11.0	15.0	12.5	14.5	13.5
31	---	---	14.0	11.0	---	---	14.5	11.5	15.0	12.5	---	---
MONTH	12.5	8.0	14.0	9.5	14.5	10.0	15.0	11.0	15.0	11.5	15.0	12.0

11377200 SACRAMENTO RIVER AT BEND, CALIF.

LOCATION.--Lat 40°15'51", long 122°13'19", in NW¼SE¼ sec.20, T.28 N., R.3 W., Tehama County, at highway bridge at Bend, 2.7 miles downstream from gaging station, 0.1 mile upstream from Spring Creek, and approximately 6 miles north of Red Bluff.

DRAINAGE AREA.--8,900 sq mi , excluding Goose Lake basin (at gaging station).

PERIOD OF RECORD.--Chemical analyses: May 1955 to September 1968, water years 1969-72 (partial-record station).
Water temperatures: May 1955 to September 1970.
Sediment records: Water year 1957 (partial-record station), October 1957 to September 1970.
Water year 1957 published as "near Red Bluff"; water years 1958-66 published as "at Red Bluff".

REMARKS.--Selected analyses furnished by California Department of Water Resources. Records of daily discharge data given for Sacramento River above Bend Bridge, near Red Bluff (sta 11377100). No appreciable inflow between sampling point and gaging station.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	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)
MAY									
02...	1000	11300	23	--	9.2	5.1	6.4	1.9	66
JULY									
18...	1430	11700	21	40	9.2	5.1	6.3	1.1	66
AUG.									
22...	1800	9490	20	60	9.7	5.2	6.2	1.1	63
SEP.									
26...	1900	6980	19	70	10	5.9	4.9	1.0	59
26...	2000	6980	19	40	13	6.0	5.1	.9	58

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)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
MAY									
02...	0	54	5.4	2.6	.1	.12	.00	.26	.38
JULY									
18...	0	54	5.4	2.0	.1	.05	.00	.04	.09
AUG.									
22...	0	52	5.5	3.0	.1	.00	.00	.18	.18
SEP.									
26...	0	48	4.5	2.6	.1	.71	.00	--	--
26...	0	48	4.2	2.7	.1	--	--	--	--

DATE	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)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
MAY								
02...	.06	87	.12	44	0	123	7.4	10.0
JULY								
18...	.06	83	.11	44	0	114	6.7	13.0
AUG.								
22...	.07	82	.11	46	0	118	7.4	15.0
SEP.								
26...	--	78	.10	49	1	110	5.8	12.0
26...	--	80	.11	57	9	111	5.7	12.0

11377200 SACRAMENTO RIVER AT BEND, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU) 1/	DISSOLVED OXYGEN (MG/L)
NOV.							
22...	1530	7750	128	7.4	11.0	4	11.0
JAN.							
06...	1300	8080	132	7.3	8.0	5	11.8
MAR.							
02...	0830	18600	122	7.2	8.0	16	11.3
MAY							
08...	0730	12200	119	8.1	9.5	2	10.8
JULY							
21...	0800	11800	116	7.4	11.5	5	9.9
SEP.							
22...	0735	7010	114	7.4	13.0	5	10.0

1/ Determined in laboratory.

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)
MAY				
02...	1000	2	50	0
JULY				
18...	1430	--	50	--
AUG.				
22...	1800	--	40	--
SEP.				
26...	1900	--	50	--
26...	2000	4	50	0

11381620 MILL CREEK AT MOUTH, NEAR LOS MOLINOS, CALIF.

LOCATION.--Lat 40°02'34", long 122°05'57", T.25 N., R.2 W., in Rio de Los Molinos Grant, Tehama County, at bridge on U.S. Highway 99, 0.8 mile upstream from confluence with Sacramento River, and 1.5 miles north of Los Molinos.

PERIOD OF RECORD.--Chemical analyses: October 1952 to September 1953 (partial-record station), October 1953 to September 1970, water year 1971 (partial-record station), October 1971 to September 1972.

REMARKS.--Records furnished by California Department of Water Resources. Discharge given for Mill Creek near Los Molinos (sta 11381500), 5.5 miles upstream from mouth.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	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)	HARD-NESS (CA,MG) (MG/L)
OCT.								
15...	1145	119	--	--	--	--	--	--
NOV.								
02...	1315	126	--	--	--	--	--	--
DEC.								
06...	1400	165	--	--	--	--	--	--
JAN.								
05...	1525	150	--	--	--	--	--	--
FEB.								
08...	1300	188	--	--	--	--	--	--
MAR.								
01...	1315	564	7.3	39	0	32	3.4	32
APR.								
17...	1245	388	--	--	--	--	--	--
MAY								
18...	1215	343	--	--	--	--	--	--
JUNE								
02...	1145	335	--	--	--	--	--	--
JULY								
20...	1215	126	15	74	0	61	17	64
AUG.								
07...	1230	109	--	--	--	--	--	--
SEP.								
21...	1230	99	--	--	--	--	--	--

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)	TUR-BID-ITY (JTU)	DIS-SOLVED BORON (B) (UG/L)
OCT.							
15...	--	--	--	--	--	0	--
NOV.							
02...	--	--	--	--	10.0	2	--
DEC.							
06...	--	--	--	--	--	1	--
JAN.							
05...	--	--	--	--	4.0	1	--
FEB.							
08...	--	--	--	--	--	1	--
MAR.							
01...	0	.6	100	7.4	7.5	3	300
APR.							
17...	--	--	--	--	--	1	--
MAY							
18...	--	--	--	--	16.0	2	--
JUNE							
02...	--	--	--	--	--	7	--
JULY							
20...	3	.8	207	7.6	25.5	0	500
AUG.							
07...	--	--	--	--	--	0	--
SEP.							
21...	--	--	--	--	--	0	--

11381620 MILL CREEK AT MOUTH, NEAR LOS MOLINOS, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.						
15...	1145	119	185	--	--	--
NOV.						
02...	1315	126	180	7.5	10.0	12.2
DEC.						
06...	1400	165	207	--	--	--
JAN.						
05...	1525	150	187	7.5	4.0	13.4
FEB.						
08...	1300	188	152	--	--	--
MAR.						
01...	1315	564	97	7.3	7.5	12.8
APR.						
17...	1245	388	122	--	--	--
MAY						
18...	1215	343	112	7.8	16.0	10.0
JUNE						
02...	1145	335	106	--	--	--
JULY						
20...	1215	126	--	7.6	25.5	11.0
AUG.						
07...	1230	109	213	--	--	--
SEP.						
21...	1230	99	238	--	--	--

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 mile upstream from Digger Creek, and 0.3 mile upstream from highway bridge at Paskenta.

DRAINAGE AREA.--194 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1971, water year 1972 (partial-record station).
Water temperatures: October 1961 to September 1972.
Sediment records: October 1962 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 35.0°C on several days during July and August; minimum, freezing point on several days during December to February.
Sediment concentrations: Maximum daily, 2,090 mg/l Feb. 28; minimum daily, 0 mg/l on many days.
Sediment loads: Maximum daily, 17,800 tons Jan. 23; minimum daily, 0 tons on many days.

Period of record:
Water temperatures: Maximum, 35.0°C on several days in 1972; minimum, freezing point on several days during most years.
Sediment concentrations: Maximum daily, 60,200 mg/l Dec. 22, 1964; minimum daily, no flow Oct. 4, 1964.
Sediment discharge: Maximum daily, 5,070,000 tons Dec. 22, 1964; minimum daily, 0 tons Oct. 4, 1964, Oct. 8, 1970, and many days during September 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Temperature recorder malfunction Aug. 17, 18.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 NITRATE (N) (MG/L)
OCT.												
15...	0830	5.9	--	--	--	--	--	--	--	--	--	--
NOV.												
02...	0915	12	--	--	--	--	--	--	--	--	--	--
DEC.												
06...	0915	378	--	--	8.6	--	100	0	82	--	5.7	.40
JAN.												
05...	1100	79	--	--	--	--	--	--	--	--	--	--
FEB.												
08...	0930	190	--	--	--	--	--	--	--	--	--	--
MAR.												
01...	0915	1010	16	2.0	2.5	.4	54	0	44	6.6	.0	.00
APR.												
17...	1015	322	--	--	3.0	--	65	0	53	--	.6	--
MAY												
18...	0815	140	--	--	3.5	--	68	0	56	--	2.6	.00
JUNE												
02...	0830	94	--	--	--	--	--	--	--	--	--	--
JULY												
20...	0815	9.8	--	--	9.7	--	120	0	98	--	18	.00
AUG.												
07...	0845	4.8	--	--	--	--	--	--	--	--	--	--
SEP.												
21...	0845	2.7	--	--	--	--	--	--	--	--	--	--

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)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.												
15...	--	--	--	--	--	--	--	--	--	--	0	--
NOV.												
02...	--	--	--	--	--	--	--	--	--	8.5	0	--
DEC.												
06...	--	--	--	108	26	--	.4	252	7.7	5.0	--	200
JAN.												
05...	--	--	--	--	--	--	--	--	--	2.0	1	--
FEB.												
08...	--	--	--	--	--	--	--	--	--	5.0	20	--
MAR.												
01...	56	.08	153	48	4	10	.2	110	7.6	5.0	130	0
APR.												
17...	--	--	--	59	6	--	.2	131	7.7	9.0	5	0
MAY												
18...	--	--	--	64	8	--	.2	142	7.7	12.0	10	100
JUNE												
02...	--	--	--	--	--	--	--	--	--	18.0	0	--
JULY												
20...	--	--	--	116	18	--	.4	296	7.7	22.0	0	200
AUG.												
07...	--	--	--	--	--	--	--	--	--	25.0	0	--
SEP.												
21...	--	--	--	--	--	--	--	--	--	17.0	1	--

11382000 THOMES CREEK AT PASKENTA, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
15...	0830	5.9	386	7.9	--	10.0
NOV.						
02...	0915	12	419	8.0	8.5	11.6
DEC.						
06...	0915	378	244	7.7	5.0	11.4
JAN.						
05...	1100	79	235	7.9	2.0	14.3
FEB.						
08...	0930	190	189	7.7	5.0	12.3
MAR.						
01...	0915	1010	104	7.5	5.0	12.4
APR.						
17...	1015	322	125	7.6	9.0	11.1
MAY						
18...	0815	140	156	7.7	12.0	10.0
JUNE						
02...	0830	94	144	7.9	18.0	9.3
JULY						
20...	0815	9.8	--	8.1	22.0	8.4
AUG.						
07...	0845	4.8	320	8.1	25.0	8.5
SEP.						
21...	0845	2.7	396	7.8	17.0	9.1

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	9.0	12.5	4.0	7.0	2.5	9.0	2.5	4.5	0.0	5.0	2.5
2	20.5	10.0	13.5	4.5	8.5	3.5	9.5	3.0	4.0	0.0	8.0	5.0
3	22.5	11.5	13.5	4.0	5.0	3.0	5.0	0.0	3.5	0.0	8.0	5.5
4	23.5	13.0	14.0	5.5	6.5	1.5	4.5	0.0	4.5	2.5	10.5	6.0
5	24.5	13.5	13.5	6.0	7.5	4.0	5.5	0.0	5.5	3.0	10.5	5.5
6	24.5	14.0	13.0	4.5	7.5	2.0	7.0	0.5	6.0	4.0	11.0	5.5
7	25.5	15.5	13.0	5.5	6.0	1.0	6.5	0.5	9.0	3.0	12.0	6.5
8	26.5	16.0	11.0	5.5	6.0	0.0	7.0	0.5	7.0	3.5	11.5	6.0
9	26.5	16.0	9.5	6.0	5.5	1.5	7.0	1.0	10.0	2.5	9.5	6.5
10	25.0	15.5	14.0	8.0	4.5	1.5	6.5	0.0	10.0	2.5	9.0	7.0
11	25.5	15.0	11.5	8.0	4.5	0.5	4.0	0.5	9.5	3.0	11.0	6.0
12	23.5	14.5	9.5	7.5	7.5	3.0	5.0	2.0	10.5	3.5	11.0	8.0
13	24.5	14.0	11.5	5.5	6.5	1.0	8.5	1.0	10.5	4.0	13.5	7.5
14	22.0	14.0	10.0	3.5	4.5	1.5	8.5	1.5	7.5	3.5	13.0	7.0
15	14.0	11.0	9.5	3.0	6.5	1.0	8.5	1.0	9.5	4.0	14.5	7.5
16	15.5	8.0	10.5	3.5	7.0	1.0	7.5	1.0	10.5	3.5	15.5	8.5
17	15.0	7.5	11.0	3.5	8.0	1.5	7.0	2.0	10.5	3.5	15.5	9.0
18	15.5	7.5	10.5	4.5	7.0	1.5	8.0	4.0	9.0	3.5	14.5	8.5
19	13.5	10.0	12.0	4.0	8.0	2.0	6.0	5.0	7.5	4.0	13.5	6.5
20	16.5	11.0	13.0	6.0	6.5	1.5	6.5	5.5	10.5	5.5	14.0	7.0
21	16.5	8.5	12.0	6.5	3.5	2.0	7.5	6.5	10.0	4.5	14.0	7.5
22	12.5	8.0	11.5	6.0	7.5	2.0	9.0	7.5	9.0	3.5	12.5	9.0
23	15.0	9.5	9.0	5.0	5.5	3.0	7.5	4.0	9.0	2.5	13.5	5.5
24	14.0	7.0	10.0	5.0	6.5	3.5	5.0	2.5	7.0	3.0	9.0	6.5
25	15.5	7.0	10.5	5.0	4.5	2.5	5.5	2.0	6.0	3.0	9.5	3.5
26	14.0	7.5	9.5	6.5	3.0	2.0	3.0	0.5	7.0	3.5	9.5	1.5
27	13.0	6.0	8.5	5.5	4.0	2.0	4.5	0.5	8.0	4.0	11.0	2.5
28	9.5	2.5	8.5	6.0	6.5	1.5	4.5	0.0	8.5	4.5	11.0	3.0
29	10.5	1.5	9.0	5.0	5.0	2.0	4.5	0.0	7.0	3.5	13.0	4.0
30	8.0	4.5	9.0	4.0	7.0	2.0	5.5	0.0	---	---	15.0	4.5
31	11.0	2.5	---	---	8.5	1.5	5.0	0.0	---	---	10.5	6.5
MONTH	26.5	1.5	14.0	3.0	8.5	0.0	9.5	0.0	10.5	0.0	15.5	1.5

11382000 THOMES CREEK AT PASKENTA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	7.5	20.5	8.0	28.0	16.5	32.5	20.5	33.0	19.0	30.0	18.5
2	17.0	8.5	21.5	10.0	24.0	16.0	32.0	20.5	32.5	19.0	30.0	19.0
3	17.0	9.0	21.0	10.5	27.5	14.5	32.5	19.5	32.5	18.5	30.0	18.5
4	16.5	9.5	21.5	11.0	29.5	16.0	32.0	20.0	33.0	19.5	29.5	19.0
5	14.5	9.5	20.0	11.0	30.5	17.0	31.5	19.5	33.5	19.5	29.0	18.0
6	14.0	7.0	17.0	10.5	27.0	19.0	31.0	18.5	34.5	19.5	29.5	17.0
7	13.5	6.0	15.5	7.5	29.0	18.0	31.0	19.0	35.0	22.0	29.5	18.0
8	11.0	5.5	18.0	6.5	27.0	16.5	30.5	18.0	35.0	22.5	29.5	18.0
9	13.0	4.5	20.0	8.0	18.0	13.0	31.0	18.0	34.0	22.5	28.0	17.0
10	12.5	6.0	21.0	9.5	19.5	11.0	31.5	18.5	34.5	22.5	25.0	15.5
11	11.0	5.5	22.5	10.0	23.5	9.5	33.5	19.5	32.5	21.5	25.0	14.0
12	10.5	4.0	24.0	11.0	27.0	12.5	35.0	21.0	31.0	18.5	25.0	14.0
13	12.5	2.0	24.5	12.5	29.5	15.5	35.0	21.5	30.0	18.0	26.5	14.0
14	14.5	3.5	23.5	13.5	29.5	17.5	34.5	22.5	28.5	17.5	28.0	15.0
15	15.5	6.5	23.5	13.0	29.5	18.0	26.5	23.0	27.0	15.5	28.0	15.0
16	14.5	7.0	18.0	11.5	30.0	16.5	35.0	23.5	21.5	15.0	27.0	16.0
17	12.5	4.5	22.0	10.0	31.0	17.0	35.0	23.0	---	---	27.5	16.0
18	11.5	3.0	21.0	10.0	32.0	18.0	33.5	22.5	---	---	25.5	15.5
19	13.0	3.5	15.0	10.0	31.5	20.0	31.5	20.0	27.5	15.0	25.0	14.0
20	15.0	4.5	13.0	9.0	32.0	20.5	29.5	19.0	28.0	17.5	26.0	13.5
21	17.0	7.0	11.5	8.5	31.0	18.0	31.0	17.5	30.0	17.0	25.0	14.5
22	16.5	7.0	21.5	7.5	29.5	18.5	31.0	18.5	31.0	18.0	26.0	16.0
23	15.5	7.5	23.5	11.0	21.5	17.0	30.5	19.0	30.5	18.0	21.0	12.0
24	15.0	6.5	24.5	12.0	27.0	14.0	31.0	18.5	30.0	18.0	22.0	11.5
25	16.0	5.5	25.5	13.0	28.0	14.5	31.0	18.5	30.0	19.0	17.5	12.0
26	18.5	7.5	26.5	14.0	29.5	16.0	31.0	18.5	31.5	18.5	16.0	13.0
27	19.0	9.0	27.5	15.0	31.0	17.5	33.0	19.0	32.5	19.0	17.5	13.0
28	17.5	7.0	28.0	16.5	32.0	18.5	33.0	19.0	31.0	20.0	22.5	12.0
29	15.0	5.0	27.0	16.0	33.5	19.5	24.0	19.5	28.5	19.0	24.0	13.0
30	18.0	6.0	27.5	16.0	33.0	20.5	31.0	17.5	31.5	19.5	24.5	13.5
31	---	---	28.0	16.0	---	---	32.5	17.5	31.0	18.5	---	---
MONTH	19.0	2.0	28.0	6.5	33.5	9.5	35.0	17.5	35.0	15.0	30.0	11.5

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	19	1	.05	11	1	.03	89	4	.96
2	16	1	.04	11	1	.03	80	3	.65
3	12	1	.03	10	2	.05	78	3	.63
4	10	1	.03	10	1	.03	74	3	.60
5	9.1	1	.02	10	1	.03	69	2	.37
6	9.1	1	.02	9.1	1	.02	201	67	56
7	7.9	1	.02	9.5	1	.03	121	12	3.9
8	7.5	1	.02	9.1	1	.02	87	3	.70
9	7.1	1	.02	10	1	.03	79	4	.85
10	6.7	1	.02	11	2	.06	100	9	2.4
11	6.3	1	.02	19	8	.54	81	4	.87
12	5.5	1	.01	43	16	1.8	74	3	.60
13	5.5	1	.01	52	5	.94	68	2	.37
14	5.5	1	.01	55	4	.60	60	1	.16
15	5.9	1	.02	33	1	.09	60	1	.16
16	5.9	1	.02	25	1	.07	54	2	.29
17	6.3	1	.02	22	1	.06	52	1	.14
18	6.7	1	.02	18	1	.05	54	1	.15
19	7.1	1	.02	18	1	.05	60	2	.32
20	8.3	1	.02	18	1	.05	62	2	.33
21	9.1	1	.02	21	1	.06	65	9	2.2
22	9.5	1	.03	25	1	.07	176	103	50
23	11	1	.03	25	1	.07	151	69	30
24	10	1	.03	24	1	.06	112	19	5.7
25	9.1	1	.02	25	1	.07	111	31	9.3
26	8.7	1	.02	73	26	32	142	18	8.6
27	8.7	1	.02	218	80	68	158	9	4.4
28	8.7	1	.02	208	81	59	106	4	1.1
29	9.1	1	.02	151	52	21	87	3	.70
30	9.5	1	.03	111	93	28	79	2	.43
31	10	1	.03	--	--	--	74	1	.20
TOTAL	270.8	--	.71	1284.7	--	212.91	2864	--	183.08

11382000 THOMES CREEK AT PASKENTA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	78	2	.42	206	16	8.9	1010	450	1230
2	84	2	.45	183	18	8.9	1710	990	4570
3	91	5	1.2	173	21	9.8	2810	1900	14400
4	88	3	.71	181	22	11	1920	910	4720
5	81	2	.44	184	42	21	1500	587	2380
6	77	1	.21	183	36	18	1170	307	970
7	81	1	.22	188	28	14	1100	309	918
8	86	1	.23	190	20	10	1070	202	584
9	84	1	.23	188	19	9.6	1060	168	481
10	80	1	.22	188	14	7.1	1170	320	1010
11	78	2	.42	193	20	10	1210	311	1020
12	77	2	.42	199	34	18	1080	215	627
13	89	10	2.4	204	31	17	1080	150	437
14	96	5	1.3	212	30	17	918	104	258
15	94	2	.51	230	28	17	780	71	150
16	94	2	.51	246	32	21	790	83	177
17	94	2	.51	251	23	16	750	65	132
18	107	8	2.3	248	16	11	670	62	112
19	222	88	67	251	14	9.5	530	44	63
20	594	268	430	283	46	35	418	36	41
21	1180	940	3600	290	41	32	370	33	33
22	2120	1650	14300	300	50	41	390	60	63
23	2650	2070	17800	296	85	68	334	28	25
24	958	538	1390	365	129	127	342	35	32
25	562	215	326	318	57	49	570	97	149
26	370	110	110	474	315	455	365	37	36
27	350	69	65	680	348	639	322	27	23
28	303	45	37	2180	2090	17300	293	23	18
29	265	29	21	2400	1680	13400	262	19	13
30	243	22	14	--	--	--	248	16	11
31	227	18	11	--	--	--	234	14	8.8
TOTAL	11603	--	38183.70	11484	--	32400.8	26476	--	34691.8

	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	221	13	7.8	169	6	2.7	102	1	.28
2	236	34	22	184	7	3.5	98	1	.26
3	251	21	14	199	6	3.2	90	1	.24
4	251	19	13	208	6	3.4	84	1	.23
5	346	84	78	241	7	4.6	82	1	.22
6	509	74	102	234	7	4.4	81	1	.22
7	430	27	31	200	5	2.7	81	1	.22
8	346	18	17	176	4	1.9	78	1	.21
9	326	17	15	160	5	2.2	75	1	.20
10	296	10	8.0	156	5	2.1	75	1	.20
11	300	18	15	152	5	2.1	68	2	.37
12	310	27	23	152	6	2.5	59	2	.32
13	265	20	14	157	6	2.5	53	2	.29
14	256	17	12	166	6	2.7	51	2	.28
15	314	29	25	164	4	1.8	50	2	.27
16	350	15	14	151	4	1.6	47	2	.25
17	322	13	11	146	4	1.6	45	2	.24
18	296	9	7.2	135	2	.73	42	1	.11
19	273	8	5.9	129	4	1.4	39	1	.11
20	262	7	5.0	126	4	1.4	37	2	.20
21	251	8	5.4	125	3	1.0	33	1	.09
22	246	7	4.6	117	3	.95	31	2	.17
23	239	7	4.5	112	4	1.2	30	1	.08
24	241	8	5.2	110	2	.59	30	1	.08
25	227	3	1.8	110	3	.89	29	1	.08
26	212	5	2.9	111	3	.90	26	1	.07
27	202	6	3.3	116	3	.94	25	1	.07
28	223	5	3.0	116	2	.63	23	1	.06
29	195	5	2.6	117	3	.95	22	1	.06
30	169	4	1.8	113	2	.61	19	1	.05
31	--	--	--	107	2	.58	--	--	--
TOTAL	8365	--	475.0	4659	--	58.27	1605	--	5.53

11382000 THOMES CREEK AT PASKENTA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	18	1	.05	6.3	1	.02	3.0	0	0
2	16	1	.04	5.7	1	.02	3.0	0	0
3	15	1	.04	6.3	1	.02	3.0	0	0
4	14	1	.04	6.0	1	.02	3.0	0	0
5	13	1	.04	5.7	1	.02	3.0	0	0
6	12	2	.06	5.4	1	.01	3.2	0	0
7	10	2	.05	4.8	1	.01	3.4	0	0
8	9.8	2	.05	5.1	1	.01	3.2	0	0
9	9.0	2	.05	4.8	1	.01	3.0	0	0
10	9.0	2	.05	4.8	1	.01	3.0	0	0
11	9.0	2	.05	4.8	1	.01	3.2	0	0
12	9.0	2	.05	4.5	1	.01	3.4	0	0
13	8.5	1	.02	4.5	1	.01	3.0	0	0
14	8.1	5	.11	4.2	1	.01	3.0	0	0
15	7.7	4	.08	4.5	1	.01	2.9	0	0
16	8.1	3	.07	4.8	1	.01	2.9	0	0
17	8.5	2	.05	5.1	1	.01	2.9	0	0
18	9.0	1	.02	6.6	2	.04	2.9	0	0
19	9.4	1	.03	6.6	2	.04	2.9	0	0
20	9.8	1	.03	6.6	1	.02	2.9	0	0
21	11	2	.06	6.6	1	.02	2.7	0	0
22	15	2	.08	6.3	1	.02	2.7	0	0
23	13	1	.04	5.7	1	.02	2.7	1	.01
24	11	1	.03	5.1	1	.01	2.7	2	.01
25	9.8	1	.03	4.8	1	.01	2.7	4	.03
26	9.8	1	.03	4.5	1	.01	4.8	4	.05
27	9.0	1	.02	4.2	1	.01	150	128	85
28	8.5	1	.02	3.9	1	.01	75	23	4.7
29	8.1	1	.02	3.7	1	.01	42	2	.23
30	7.7	1	.02	3.6	1	.01	31	1	.08
31	6.9	1	.02	3.4	1	.01	--	--	--
TOTAL	322.7	--	1.35	158.9	--	.46	377.1	--	90.11

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 69470.2
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 106303.72

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.											
28...	1155	8.5	325	182	160	--	--	--	--	--	--
DEC.											
22...	0730	3.5	210	141	80	--	--	--	--	--	--
22...	0830	4.0	214	72	42	--	--	--	--	--	--
JAN.											
20...	0900	6.0	590	294	468	19	40	54	68	75	--
21...	1130	6.5	1250	930	3140	11	23	35	45	50	--
21...	1625	7.5	1650	1790	7970	21	29	42	53	63	74
23...	0940	6.0	2600	2270	15900	18	25	37	55	58	--
24...	1322	3.5	932	485	1220	19	28	37	45	48	--
FEB.											
28...	0620	8.0	930	2450	6150	14	18	26	37	49	60
28...	0820	7.0	1300	1830	6420	15	21	29	43	58	70
28...	0920	8.5	2300	5010	31100	15	21	29	38	51	61

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.										
28...	--	--	99	--	99	--	100	--	--	--
DEC.										
22...	97	--	98	--	100	--	--	--	--	--
22...	96	--	97	--	98	--	100	--	--	--
JAN.										
20...	89	--	92	--	95	--	99	--	100	--
21...	77	--	83	--	91	--	98	--	100	--
21...	--	81	--	91	--	99	--	100	--	--
23...	65	--	72	--	82	--	92	--	98	100
24...	62	--	65	--	70	--	82	--	93	100
FEB.										
28...	--	69	--	84	--	99	--	100	--	--
28...	--	76	--	88	--	97	--	100	--	--
28...	--	74	--	87	--	95	--	100	--	--

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 miles upstream from county bridge on Lodoga-Stonyford road, 1.4 miles downstream from Frenzel Creek, and 2.8 miles southwest of Lodoga.

DRAINAGE AREA.--45.6 sq mi.

PERIOD OF RECORD.--Water temperatures: May 1967 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 33.5°C July 15; minimum, 3.0°C Jan. 30, 31, Feb. 2.

Period of record:
Water temperatures: Maximum, 33.5°C July 15, 1972; minimum, freezing point Dec. 21-23, 1968.

REMARKS.--Clock stopped Oct. 14-23; range in temperature, 10.5°C to 18.5°C. Recorder malfunction July 8, 9. No flow Aug. 9-17, Aug. 27 to Sept. 10.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	12.0	9.5	7.5	8.5	7.5	6.5	6.0	4.0	3.5	11.5	9.5
2	15.0	12.0	9.5	8.0	8.5	8.0	6.0	5.5	4.5	3.0	12.5	11.0
3	16.0	13.0	9.0	7.5	8.5	7.5	6.0	5.0	4.5	3.5	12.5	12.0
4	17.0	14.0	11.0	7.5	7.5	5.5	5.0	3.5	5.5	4.5	13.5	12.5
5	17.5	14.5	11.5	10.5	6.5	6.0	4.5	4.0	6.5	5.5	13.5	11.5
6	18.0	15.0	11.5	10.0	7.0	6.5	5.0	4.5	7.0	6.0	13.5	11.0
7	17.5	15.0	11.0	9.5	7.0	5.5	5.5	5.0	7.0	6.0	14.0	11.5
8	18.0	15.5	10.5	9.5	5.5	4.0	5.5	5.0	7.0	6.0	14.0	11.5
9	18.0	15.5	11.5	10.0	4.0	4.0	5.5	5.0	8.0	5.5	13.5	11.5
10	18.0	15.5	13.0	11.5	4.0	3.5	5.5	4.0	8.0	6.5	13.0	11.5
11	18.0	15.5	13.5	13.0	4.0	3.5	5.5	5.0	8.0	7.0	13.5	12.0
12	18.0	15.0	13.0	12.0	5.0	4.0	5.5	5.0	8.5	7.0	13.5	12.5
13	18.0	15.5	12.5	12.0	5.0	4.0	5.5	5.0	8.5	7.5	14.0	12.0
14	---	---	12.0	10.5	4.5	4.0	5.5	5.0	8.5	7.5	13.5	11.0
15	---	---	11.0	9.5	5.0	4.0	5.5	5.0	9.5	8.0	14.0	11.5
16	---	---	10.0	9.5	4.0	3.5	5.5	5.0	9.5	8.0	14.5	12.0
17	---	---	10.0	9.0	4.0	3.5	6.0	5.5	9.5	8.0	15.0	12.5
18	---	---	9.5	9.0	4.5	4.0	7.0	6.0	10.0	8.5	15.0	12.5
19	---	---	10.5	9.0	4.5	3.5	7.5	7.0	10.5	9.5	14.0	11.0
20	---	---	11.0	10.0	4.0	3.5	8.5	7.5	11.5	10.5	13.0	10.5
21	---	---	11.0	10.5	4.0	3.5	8.5	8.0	12.0	10.0	13.5	11.5
22	---	---	11.0	10.0	6.5	4.0	9.5	8.5	11.0	9.5	13.5	12.0
23	---	---	11.0	10.0	7.0	6.5	9.5	7.5	10.5	9.0	12.5	10.0
24	12.0	10.5	10.0	9.5	7.0	6.5	7.5	5.5	10.5	9.5	12.0	10.0
25	12.0	10.5	10.0	8.5	7.0	6.0	6.5	5.5	10.0	9.5	11.0	10.0
26	12.0	10.0	10.0	9.5	6.0	5.5	6.0	4.5	11.5	10.0	10.5	7.5
27	11.0	9.5	10.0	9.5	8.0	6.0	5.0	4.5	12.5	10.5	10.0	7.5
28	9.5	8.0	10.5	10.0	8.0	6.5	5.0	4.5	13.0	12.0	10.5	8.0
29	9.0	7.5	10.5	9.5	7.0	6.5	5.0	4.0	13.0	10.5	11.5	8.5
30	9.0	7.5	9.5	8.0	6.5	6.5	4.5	3.0	---	---	11.5	8.5
31	9.5	8.0	---	---	6.5	6.0	4.0	3.0	---	---	11.5	10.0
MONTH	---	---	13.5	7.5	8.5	3.5	9.5	3.0	13.0	3.0	15.0	7.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.5	16.0	12.5	22.0	18.5	30.5	22.5	30.0	24.0	---	---
2	13.5	11.0	17.5	14.0	20.0	17.5	30.5	23.0	31.0	21.5	---	---
3	13.5	12.0	17.5	14.5	20.5	17.0	30.5	23.0	30.5	21.5	---	---
4	13.5	12.0	18.5	15.5	22.0	17.5	30.0	23.0	31.0	22.5	---	---
5	14.0	12.0	18.5	16.0	23.0	18.5	30.0	22.0	30.5	22.0	---	---
6	14.0	12.0	18.5	15.5	22.5	19.5	29.5	22.0	30.0	22.5	---	---
7	13.5	11.0	17.5	15.0	23.0	19.0	30.0	21.5	29.5	24.5	---	---
8	13.0	10.5	16.0	12.5	22.5	19.0	---	---	29.0	26.0	---	---
9	13.0	9.5	17.0	13.0	21.5	15.0	---	---	---	---	---	---
10	12.5	10.5	18.0	14.5	21.0	12.5	30.0	20.0	---	---	---	---
11	12.5	11.0	18.0	14.5	22.0	12.0	31.0	20.5	---	---	21.5	16.5
12	11.0	9.5	19.0	15.0	24.0	14.0	32.0	21.5	---	---	22.0	15.5
13	11.5	8.0	19.5	16.0	25.5	16.0	33.0	22.5	---	---	22.5	15.5
14	12.5	8.5	19.5	16.5	26.0	18.0	33.0	21.5	---	---	22.5	16.0
15	14.0	10.0	20.0	16.5	26.5	18.0	33.5	22.5	---	---	23.0	16.0
16	14.0	11.0	17.5	16.5	26.0	17.5	33.0	24.0	---	---	23.0	17.0
17	13.5	10.5	18.0	14.5	27.0	17.5	33.0	24.0	---	---	22.5	17.0
18	12.5	9.5	18.0	15.0	27.5	18.5	32.5	24.5	27.0	17.5	21.5	17.0
19	12.5	9.0	17.0	15.0	27.5	20.0	31.0	22.5	26.0	19.0	20.5	16.0
20	13.5	9.5	15.5	14.0	27.5	19.0	29.5	22.5	25.5	19.5	21.0	15.5
21	14.5	11.0	14.0	12.5	27.0	18.5	30.0	21.0	28.0	19.0	21.5	16.0
22	14.5	11.5	16.5	12.0	27.0	19.5	30.5	20.5	29.0	20.0	21.5	16.5
23	14.5	12.0	18.0	14.0	23.0	19.5	30.5	21.0	28.5	20.5	19.0	14.0
24	13.5	11.5	19.0	15.5	25.5	18.0	30.0	19.0	28.0	21.0	19.0	13.5
25	14.0	10.5	19.5	16.0	26.0	18.5	30.5	20.5	28.0	21.0	17.0	14.0
26	15.0	11.5	20.5	17.0	27.0	19.0	30.5	20.5	27.0	21.5	17.5	15.0
27	16.0	12.5	21.5	18.0	28.0	20.0	31.5	21.0	---	---	19.0	16.0
28	15.5	13.0	22.0	19.0	29.5	21.5	31.5	21.5	---	---	21.0	14.5
29	15.0	11.5	22.0	18.5	30.5	22.0	26.5	22.0	---	---	20.5	14.5
30	15.0	11.0	22.0	18.0	30.5	22.5	30.5	20.5	---	---	20.5	14.5
31	---	---	21.5	17.5	---	---	30.5	20.0	---	---	---	---
MONTH	16.0	8.0	22.0	12.0	30.5	12.0	33.5	19.0	---	---	---	---

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 mile downstream from Grindstone Creek, and 6.5 miles northwest of Fruto.

DRAINAGE AREA.--597 sq mi.

PERIOD OF RECORD.--Chemical analyses: March 1964 to September 1966.
Water temperatures: December 1970 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 33.5°C Aug. 9; minimum recorded, 3.0°C Jan. 11.

Period of record:
Water temperatures: Maximum, 33.5°C Aug. 9, 1972; minimum recorded, 3.0°C Jan. 11, 1972.

REMARKS.--Temperature recorder malfunction Oct. 1-14, Oct. 23 to Nov. 1, 15-26, Dec. 6 to Jan. 10, Apr. 20 to May 4, 14-18, June 3-8.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	10.0	6.0	---	---	6.5	4.5	8.5	5.5
2	---	---	13.0	8.5	9.0	7.0	---	---	6.0	4.0	10.5	8.5
3	---	---	13.0	8.5	7.5	6.5	---	---	6.0	4.5	10.0	8.5
4	---	---	13.5	8.5	9.0	5.5	---	---	7.0	6.0	12.5	8.0
5	---	---	12.5	8.5	9.0	5.5	---	---	8.0	6.5	12.5	7.5
6	---	---	13.0	8.5	---	---	---	---	9.5	7.0	12.5	8.0
7	---	---	12.0	8.0	---	---	---	---	10.0	4.0	13.0	8.5
8	---	---	11.5	8.0	---	---	---	---	8.5	6.0	12.5	8.5
9	---	---	11.0	9.0	---	---	---	---	10.0	4.5	10.5	8.5
10	---	---	12.5	10.0	---	---	---	---	10.5	4.5	12.0	9.0
11	---	---	13.5	9.0	---	---	4.5	3.0	10.5	5.5	13.5	8.5
12	---	---	13.5	9.0	---	---	5.5	3.5	11.0	5.5	13.0	10.5
13	---	---	12.0	9.5	---	---	8.0	4.0	11.0	6.5	15.0	10.0
14	---	---	10.5	6.5	---	---	8.0	3.5	9.5	6.5	14.5	9.0
15	16.5	14.5	---	---	---	---	7.5	4.0	11.0	6.5	16.0	9.5
16	16.5	14.0	---	---	---	---	7.5	3.5	12.0	6.5	20.0	10.5
17	16.5	12.5	---	---	---	---	8.0	4.5	12.5	6.5	15.0	9.0
18	16.0	12.0	---	---	---	---	8.0	5.5	11.5	7.0	13.0	9.5
19	15.5	13.0	---	---	---	---	6.5	6.0	13.0	7.0	12.5	8.5
20	15.5	13.0	---	---	---	---	6.5	6.0	13.5	9.0	12.5	8.5
21	17.0	11.5	---	---	---	---	7.5	6.5	13.0	8.0	13.0	9.0
22	15.5	11.0	---	---	---	---	9.0	7.0	12.5	7.5	12.0	9.0
23	---	---	---	---	---	---	7.5	5.5	11.5	7.0	14.0	8.0
24	---	---	---	---	---	---	6.0	4.5	10.0	7.0	12.0	8.5
25	---	---	---	---	---	---	6.5	4.5	8.5	6.5	11.5	7.0
26	---	---	---	---	---	---	5.0	3.5	10.0	7.5	11.0	4.0
27	---	---	10.5	8.5	---	---	6.0	4.5	13.0	8.0	13.0	5.0
28	---	---	10.5	9.0	---	---	5.5	4.5	11.0	8.5	13.5	5.5
29	---	---	10.5	8.0	---	---	6.0	3.5	10.0	7.0	14.0	6.0
30	---	---	10.5	7.0	---	---	6.5	4.0	---	---	18.0	7.0
31	---	---	---	---	---	---	6.5	4.0	---	---	12.5	8.5
MONTH	---	---	---	---	---	---	---	---	13.5	4.0	20.0	4.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	10.0	---	---	22.5	15.5	29.0	19.5	31.5	20.5	27.5	21.0
2	17.0	9.5	---	---	20.0	15.5	28.5	20.0	31.5	21.5	27.0	22.0
3	16.5	9.5	---	---	---	---	28.5	19.5	31.5	21.5	27.5	22.0
4	16.5	10.0	---	---	---	---	28.5	19.5	31.5	22.0	27.5	22.0
5	15.5	10.5	19.5	13.5	---	---	28.0	19.0	31.5	21.5	27.5	22.0
6	16.5	9.5	18.0	13.5	---	---	25.5	18.5	32.5	22.0	28.0	21.5
7	16.0	9.0	17.5	13.5	---	---	25.5	19.5	33.0	23.5	28.0	21.5
8	16.0	8.5	16.5	13.5	---	---	25.5	19.0	32.5	24.5	27.5	21.5
9	17.0	8.0	16.0	14.0	18.5	16.0	25.5	19.5	33.5	24.5	27.0	21.0
10	15.0	9.5	16.5	14.0	21.0	15.5	26.0	20.0	33.0	24.5	26.0	21.0
11	13.0	9.5	17.5	14.0	22.0	15.5	26.5	20.0	32.0	23.5	26.5	20.5
12	13.5	8.0	20.0	14.0	23.5	16.0	27.0	20.5	30.5	21.0	26.0	19.5
13	14.0	5.5	19.0	14.0	24.0	17.0	27.0	20.5	30.0	20.5	26.5	19.0
14	16.0	7.0	---	---	24.0	17.5	28.5	21.0	28.5	20.5	27.0	19.0
15	17.5	9.0	---	---	24.0	17.5	31.5	21.0	27.5	18.5	27.0	19.0
16	17.5	10.5	---	---	24.0	17.0	33.0	23.5	24.0	19.0	25.5	18.0
17	15.5	8.5	---	---	24.5	17.0	33.0	23.5	25.0	19.0	25.5	17.5
18	15.0	6.5	---	---	25.0	17.5	32.5	23.0	26.0	18.5	24.5	17.0
19	16.0	10.0	18.0	13.5	24.5	18.5	30.5	21.5	27.0	19.0	24.0	16.5
20	---	---	15.5	14.5	24.5	18.5	29.0	21.0	27.5	20.0	24.5	15.5
21	---	---	16.0	14.0	24.5	18.0	30.5	20.5	27.5	20.0	25.0	19.0
22	---	---	21.0	14.0	24.5	18.0	31.0	20.5	28.0	20.0	25.0	19.5
23	---	---	21.0	14.5	22.0	18.0	31.0	21.5	28.0	20.0	23.0	18.0
24	---	---	21.0	14.5	24.5	18.5	30.5	20.5	26.5	20.0	23.5	18.0
25	---	---	21.5	14.5	25.0	18.0	30.5	21.0	26.5	21.0	21.5	18.0
26	---	---	22.0	15.0	25.5	18.5	30.5	21.0	27.5	21.0	20.5	18.5
27	---	---	22.0	15.5	26.0	19.0	32.0	21.0	27.5	21.5	20.5	17.5
28	---	---	22.0	15.5	28.5	19.0	32.0	21.5	27.5	22.0	24.5	15.5
29	---	---	22.0	15.5	29.5	19.0	26.5	22.0	26.5	22.0	24.5	16.0
30	---	---	22.5	15.0	29.5	19.5	30.5	20.0	28.5	22.0	25.0	16.5
31	---	---	22.5	15.5	---	---	31.0	20.5	29.0	21.0	---	---
MONTH	---	---	---	---	29.5	15.5	33.0	18.5	33.5	18.5	28.0	15.5

11388000 STONY CREEK BELOW BLACK BUTTE DAM, NEAR ORLAND, CALIF.

LOCATION.--Lat 39°49'07", long 122°19'26", in SW¼ sec.28, T.23 N., R.4 W., Tehama County, at gaging station on left bank, 200 ft downstream from road bridge, 0.6 mile downstream from Black Butte Dam, and 8.1 miles northwest of Orland.

DRAINAGE AREA.--737 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1969, water years 1970-72 (partial-record station). Published as "damsite" in 1959-64.
Water temperatures: June 1969 to September 1972.
Sediment records: Water years 1958-62 (partial-record station).

EXTREMES, 1971-72:
Water temperatures: Maximum, 27.5°C on several days during August; minimum, 3.5°C Jan. 3, 4, Feb. 2.

Period of record:
Water temperatures: Maximum, 29.0°C (recorded), July 29, 1971; minimum (1971-72), 3.5°C Jan. 3, 4, Feb. 2, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Clock stopped Oct. 1-12; temperature probe above water level Nov. 2, 3, Dec. 12, 17; no flow Dec. 13-16.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 NITRATE (N) (MG/L)
OCT.												
15...	1015	213	--	--	--	--	--	--	--	--	--	--
NOV.												
02...	1130	1.3	--	--	--	--	--	--	--	--	--	--
DEC.												
06...	1230	32	--	--	--	--	--	--	--	--	--	--
JAN.												
05...	1400	31	--	--	22	--	191	0	157	--	24	.09
FEB.												
08...	1130	31	--	--	--	--	--	--	--	--	--	--
MAR.												
01...	1200	33	--	--	--	--	--	--	--	--	--	--
APR.												
10...	1015	141	30	11	12	.9	119	0	98	20	15	.00
MAY												
08...	1030	642	--	--	--	--	--	--	--	--	--	--
JUNE												
02...	1015	180	--	--	--	--	--	--	--	--	--	--
JULY												
20...	1015	219	--	--	--	--	--	--	--	--	--	--
AUG.												
07...	1030	122	--	--	--	--	--	--	--	--	--	--
SEP.												
21...	1100	174	--	--	--	--	--	--	--	--	--	--

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)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.												
15...	--	--	--	--	--	--	--	--	--	--	91	--
NOV.												
02...	--	--	--	--	--	--	--	--	--	10.0	32	--
DEC.												
06...	--	--	--	--	--	--	--	--	--	--	4	--
JAN.												
05...	--	--	--	186	29	--	.7	413	8.2	7.0	--	200
FEB.												
08...	--	--	--	--	--	--	--	--	--	--	42	--
MAR.												
01...	--	--	--	--	--	--	--	--	--	--	200	--
APR.												
10...	161	.22	61.3	119	21	18	.5	279	8.0	14.0	20	100
MAY												
08...	--	--	--	--	--	--	--	--	--	16.0	17	--
JUNE												
02...	--	--	--	--	--	--	--	--	--	--	15	--
JULY												
20...	--	--	--	--	--	--	--	--	--	22.0	63	--
AUG.												
07...	--	--	--	--	--	--	--	--	--	--	48	--
SEP.												
21...	--	--	--	--	--	--	--	--	--	22.0	27	--

11388000 STONY CREEK BELOW BLACK BUTTE DAM, NEAR ORLAND, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
15...	1015	213	312	--	--	--
NOV.						
02...	1130	1.3	363	8.3	10.0	12.3
DEC.						
06...	1230	32	372	--	--	--
JAN.						
05...	1400	31	395	8.2	7.0	14.3
FEB.						
08...	1130	31	335	--	--	--
MAR.						
01...	1200	33	264	--	--	--
APR.						
10...	1015	141	279	7.8	14.0	11.6
MAY						
08...	1030	642	281	8.0	16.0	10.8
JUNE						
02...	1015	180	306	--	--	--
JULY						
20...	1015	219	--	7.9	22.0	9.2
AUG.						
07...	1030	122	327	--	--	--
SEP.						
21...	1100	174	335	8.1	22.0	9.6

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	18.5	5.5	11.0	7.0	9.0	5.5	8.0	4.5	10.5	8.5
2	---	---	---	---	10.0	7.5	8.5	5.0	8.0	3.5	12.0	9.0
3	---	---	---	---	8.0	7.0	6.5	3.5	7.5	5.0	11.5	9.5
4	---	---	12.0	9.0	10.0	6.0	7.5	3.5	7.0	6.0	13.5	9.5
5	---	---	12.0	9.5	10.5	7.5	7.5	4.0	7.0	6.0	15.5	9.0
6	---	---	13.0	9.0	9.5	6.0	8.0	4.5	8.0	6.0	13.5	9.5
7	---	---	12.5	8.5	8.0	4.5	7.0	4.0	10.0	5.5	14.0	9.5
8	---	---	11.5	8.5	9.0	5.0	7.5	4.0	8.0	5.5	16.0	9.0
9	---	---	11.0	8.5	8.0	5.5	7.5	4.0	10.0	5.0	14.0	9.5
10	---	---	12.0	9.5	7.5	5.5	7.0	4.0	10.5	5.5	16.5	10.5
11	---	---	11.0	9.5	7.5	5.5	5.5	4.5	10.0	5.5	16.0	9.5
12	---	---	12.0	9.5	---	---	5.5	4.5	11.0	5.5	13.0	10.5
13	20.0	18.5	12.5	8.5	---	---	8.0	4.5	11.5	6.0	13.5	9.5
14	19.0	18.0	11.5	7.0	---	---	8.5	4.5	9.0	6.0	13.5	9.5
15	19.0	17.5	11.0	7.0	---	---	8.5	4.5	10.0	6.0	13.5	10.5
16	18.0	16.5	11.5	7.5	---	---	8.0	4.5	11.5	6.0	13.5	10.5
17	17.5	15.5	11.5	7.5	---	---	7.5	5.0	11.0	6.0	13.0	10.5
18	16.5	15.0	11.0	7.5	7.5	5.0	7.0	5.5	10.0	6.5	13.5	10.5
19	15.5	15.0	12.0	7.0	8.0	4.5	7.0	5.5	11.5	6.0	12.5	10.5
20	16.0	15.0	12.5	7.5	8.0	4.5	7.0	6.0	11.0	7.0	13.5	11.0
21	16.5	14.5	12.0	8.0	5.5	5.0	7.5	6.5	11.5	6.5	13.5	11.0
22	16.0	14.0	12.0	8.0	8.0	5.5	9.0	7.0	10.0	6.5	12.5	11.0
23	16.0	14.0	10.5	7.5	7.5	4.5	9.0	6.0	11.0	8.0	13.5	11.0
24	15.0	13.5	10.5	8.5	7.5	5.5	9.5	5.5	11.5	8.5	13.5	11.5
25	15.0	13.0	11.5	7.5	7.0	5.5	7.5	6.0	11.0	8.5	13.5	11.0
26	15.0	12.5	9.5	9.0	6.5	5.0	9.0	5.0	12.0	9.0	14.0	11.0
27	14.0	11.5	10.0	9.0	6.0	5.5	9.0	4.5	13.5	8.5	15.0	11.0
28	12.5	10.5	10.5	8.5	8.0	4.5	8.0	5.5	13.5	9.5	16.0	11.5
29	11.5	10.0	11.0	8.0	7.0	5.5	8.0	4.5	13.5	8.5	15.0	12.0
30	10.0	9.5	11.0	7.0	8.0	5.0	8.5	4.5	---	---	16.0	11.5
31	10.5	7.5	---	---	8.0	4.5	9.0	4.5	---	---	14.5	12.0
MONTH	---	---	18.5	5.5	11.0	4.5	9.5	3.5	13.5	3.5	16.5	8.5

11388000 STONY CREEK BELOW BLACK BUTTE DAM, NEAR ORLAND, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.0	12.5	15.5	14.5	20.0	16.0	22.5	19.5	26.5	23.5	26.0	22.5
2	15.5	12.5	15.5	14.0	18.5	16.5	22.5	20.0	26.0	23.5	25.5	22.5
3	16.0	12.5	15.5	14.0	19.5	16.5	22.5	20.0	26.5	24.5	25.5	22.0
4	16.5	12.5	15.5	14.5	19.5	16.5	23.0	20.0	27.0	24.5	25.5	22.5
5	15.5	12.5	15.5	14.5	20.5	16.5	23.0	20.0	27.0	24.0	25.5	23.0
6	16.0	12.5	15.5	14.5	20.0	16.5	23.0	20.0	27.0	24.5	25.5	23.0
7	15.5	12.5	15.0	14.5	21.0	16.5	23.0	20.0	27.5	24.5	25.5	23.0
8	15.5	12.5	16.0	14.5	20.5	16.5	24.0	20.0	27.5	24.5	25.5	23.0
9	16.0	13.0	16.0	14.5	18.0	16.0	23.5	20.0	27.5	24.5	25.5	22.5
10	15.5	13.0	16.5	15.0	20.5	16.0	23.5	20.0	27.5	24.5	24.5	22.5
11	15.5	12.5	19.0	14.5	20.0	16.0	23.0	20.0	27.5	24.5	25.5	22.0
12	15.5	12.0	19.0	14.5	21.0	16.0	24.0	20.5	27.5	24.5	25.0	21.5
13	18.0	11.5	19.5	14.5	21.5	16.5	23.5	20.5	27.0	24.5	24.5	21.5
14	18.5	12.0	19.5	15.0	21.0	17.0	23.5	20.5	27.0	24.5	24.5	21.5
15	20.0	12.5	19.5	14.5	20.5	17.0	24.0	21.0	27.0	24.5	25.0	20.5
16	18.5	12.0	19.0	14.5	20.5	17.0	24.0	21.0	25.5	23.5	24.5	20.5
17	16.5	10.5	18.5	14.5	20.0	17.5	24.5	21.0	26.0	22.0	24.5	21.5
18	14.0	12.0	18.5	14.5	21.0	18.0	24.5	21.0	26.5	22.5	24.0	21.5
19	14.0	12.5	18.0	14.5	21.5	18.0	24.5	21.0	25.5	21.5	24.0	21.5
20	14.5	13.0	16.0	15.5	22.0	18.0	23.5	20.5	25.5	23.0	23.0	21.0
21	14.5	13.0	17.0	15.0	21.5	18.0	23.5	21.5	25.5	22.5	23.0	21.0
22	14.0	13.0	20.5	14.0	21.5	18.5	23.5	21.5	25.0	22.0	23.0	20.5
23	14.0	13.0	21.5	14.5	21.0	18.0	23.5	21.5	25.0	22.0	22.5	20.0
24	14.5	13.5	21.5	14.5	22.5	18.5	24.0	22.0	25.0	22.5	22.5	19.5
25	14.5	13.5	21.0	15.0	23.0	18.0	24.0	22.0	25.0	22.0	20.5	19.5
26	15.0	13.5	24.0	15.5	22.5	18.0	24.0	22.5	25.0	22.5	20.0	19.0
27	15.0	14.0	21.5	15.5	23.0	19.0	24.5	22.5	25.5	22.5	20.5	19.0
28	15.5	14.0	22.0	15.5	22.5	19.0	25.0	23.0	25.5	23.0	24.0	18.0
29	15.0	14.0	22.0	16.0	22.5	19.5	24.5	23.0	25.5	23.0	23.0	16.5
30	15.5	14.0	21.0	16.0	21.5	19.5	26.0	23.5	25.5	22.5	23.5	18.0
31	---	---	19.5	16.0	---	---	26.5	23.0	25.5	22.5	---	---
MONTH	20.0	10.5	24.0	14.0	23.0	16.0	26.5	19.5	27.5	21.5	26.0	16.5

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 upstream from highway bridge, 0.5 mile south of Butte City, and at mile 115.8 upstream from Sacramento.
DRAINAGE AREA.--12,081 sq mi.
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 September 1972.
EXTREMES, 1971-72:
Water temperatures: Maximum, 20.0°C on several days during July to September; minimum, 6.0°C Jan. 28-30.
Period of record:
Water temperatures: Maximum, 24.0°C June 2, 3, 5, 7, 1960; minimum (1955-57, 1959-62, 1963-67, 1969-72), freezing point Jan. 2-5, 1960.
REMARKS.--Clock stopped Oct. 5-14; range in temperature, 16.5°C to 17.5°C.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

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 mile downstream from Little Butte Creek, and 7.5 miles east of Chico.

DRAINAGE AREA.--147 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), October 1953 to September 1968, water years 1969-72 (partial-record station).
Water temperatures: November 1961 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 24.5°C July 16-18, Aug. 9, 10; minimum, 1.5°C Dec. 16, Jan. 4, 5, Feb. 2.

Period of record:
Water temperatures: Maximum (1961-64, 1965-72), 26.0°C July 21, 22, 1966; minimum, 1.0°C Dec. 14, 15, 1967.

REMARKS.--Selected chemical-quality analyses furnished by California Department of Water Resources. Clock stopped Apr. 9-20, June 17-23; range in temperature, 5.0°C to 10.5°C, and 16.0°C to 19.5°C, respectively.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)
OCT.												
28...	1630	114	--	--	--	--	--	--	--	--	--	--
NOV.												
18...	1300	132	--	--	--	--	--	--	--	--	--	--
JAN.												
06...	1300	175	--	--	--	--	--	--	--	--	--	--
FEB.												
25...	1100	750	--	--	0	--	--	--	--	--	--	--
MAR.												
08...	1200	552	--	--	--	--	--	--	--	--	--	--
MAY												
10...	1045	350	--	--	--	--	--	--	--	--	--	--
15...	1200	345	20	20	--	8.2	3.0	2.4	.6	46	0	38
15...	1630	335	--	--	--	--	--	--	--	--	--	--
16...	0415	320	--	--	--	--	--	--	--	--	--	--
16...	0800	330	--	--	--	--	--	--	--	--	--	--
JULY												
17...	0805	135	--	--	--	--	--	--	--	--	--	--
SEP.												
05...	1515	121	--	--	--	--	--	--	--	--	--	--
06...	0830	119	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA 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 (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
OCT.											
28...	--	--	--	.02	.13	.23	.25	.05	.03	--	--
NOV.											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
06...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
25...	--	--	--	.02	.06	.29	.31	.04	.00	--	--
MAR.											
08...	--	--	--	--	--	--	--	--	--	--	--
MAY											
10...	--	--	--	--	--	--	--	--	--	--	--
15...	4.3	1.0	.0	.00	.05	.06	.06	.03	.00	62	.08
15...	--	--	--	.00	.06	.08	.08	.08	.00	--	--
16...	--	--	--	.00	.04	.05	.05	.04	.00	--	--
16...	--	--	--	.01	.05	.06	.07	.11	.00	--	--
JULY											
17...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
05...	--	--	--	.01	.05	.09	.10	.02	.01	--	--
06...	--	--	--	--	--	--	--	--	--	--	--

11390000 BUTTE CREEK NEAR CHICO, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)	DIS-SOLVED BORON (B) (UG/L)
OCT.											
28...	--	--	--	--	--	--	--	7.5	0	--	--
NOV.											
18...	--	--	--	--	--	--	--	6.5	0	--	--
JAN.											
06...	--	--	--	--	--	--	--	3.0	0	--	--
FEB.											
25...	--	--	--	--	--	--	--	6.5	4	.00	--
MAR.											
08...	--	--	--	--	--	--	--	10.5	1	--	--
MAY											
10...	--	--	--	--	--	--	--	11.5	0	--	--
15...	56.2	33	0	13	.2	70	7.6	15.0	--	--	0
15...	--	--	--	--	--	--	--	16.5	--	--	--
16...	--	--	--	--	--	--	--	13.0	--	--	--
16...	--	--	--	--	--	--	--	12.5	--	--	--
JULY											
17...	--	--	--	--	--	--	--	20.0	1	--	--
SEP.											
05...	--	--	--	--	--	--	--	21.0	--	--	--
06...	--	--	--	--	--	--	--	16.5	0	--	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.										
28...	1630	--	114	--	--	--	--	--	7.5	--
NOV.										
18...	1300	--	132	--	--	--	108	7.4	6.5	13.0
JAN.										
06...	1300	--	175	--	--	--	110	7.4	3.0	14.4
FEB.										
25...	1100	-	750	--	--	--	--	--	6.5	--
MAR.										
08...	1200	--	552	--	--	--	70	7.5	10.5	11.8
MAY										
10...	1045	--	357	--	--	--	72	7.4	11.5	11.3
15...	1200	336	--	46	0	38	70	7.6	15.0	--
15...	1630	335	--	--	--	--	--	--	16.5	--
16...	0415	320	--	--	--	--	--	--	13.0	--
16...	0800	330	--	--	--	--	--	--	12.5	--
JULY										
17...	0805	--	135	--	--	--	93	7.6	20.0	8.7
SEP.										
05...	1515	118	--	--	--	--	--	--	21.0	--
06...	0830	--	119	--	--	--	105	7.5	16.5	9.4

PESTICIDE ANALYES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
SEP.											
05...	1515	.00	<.2	.0	<1	.00	<.2	.00	<.2	.00	<.2

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
SEP.											
05...	.00	<.2	.00	<.2	.00	<.2	.00	<.2	.00	.00	.00

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (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 ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
FEB.												
25...	0	--	--	0	--	0	--	0	--	2.3	--	10
SEP.												
05...	--	0	0	--	1	--	1	--	.2	--	30	--

11390000 BUTTE CREEK NEAR CHICO, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	9.0	6.5	4.5	5.5	4.5	4.0	3.0	3.5	2.5	8.5	7.5
2	11.0	9.0	6.5	5.0	5.5	5.0	5.0	4.0	3.0	1.5	7.5	6.5
3	12.0	9.5	7.0	5.0	5.0	4.0	4.0	2.5	3.5	2.0	8.0	7.0
4	13.0	10.5	7.0	5.0	4.0	2.5	3.0	1.5	4.5	3.5	8.5	8.0
5	13.5	11.0	7.5	5.5	4.0	3.5	2.5	1.5	5.5	4.5	9.5	8.5
6	14.0	12.0	7.0	5.5	5.0	4.0	3.0	2.0	6.0	5.5	9.0	8.0
7	14.0	11.5	7.0	5.5	4.5	3.5	3.5	2.5	6.5	5.5	9.0	8.0
8	14.0	11.5	6.5	5.0	3.5	2.5	3.5	2.5	6.5	6.0	9.5	8.5
9	14.0	12.0	6.5	5.5	3.5	2.5	3.5	2.0	6.5	5.0	10.0	8.5
10	14.0	12.0	7.5	6.0	4.0	3.0	3.5	2.5	6.5	5.0	10.0	9.0
11	13.5	12.0	8.0	7.0	4.0	3.0	3.5	2.5	7.0	5.5	10.0	9.0
12	14.0	12.0	8.5	7.5	3.5	3.0	3.5	2.5	7.0	5.5	10.0	9.0
13	14.5	12.0	8.0	6.5	3.0	2.0	4.5	3.5	7.0	5.5	10.0	9.0
14	14.0	12.0	6.5	5.0	2.5	2.0	4.0	3.0	6.5	6.0	10.5	9.0
15	12.5	11.0	5.5	4.0	3.0	2.0	4.5	3.0	7.0	6.0	10.0	8.5
16	11.0	9.0	5.0	3.5	3.0	1.5	4.5	3.0	8.0	6.0	10.0	8.5
17	9.0	7.5	5.0	3.5	3.0	2.0	4.5	3.5	7.5	6.0	10.5	9.0
18	9.0	7.5	5.5	4.0	3.5	2.5	5.0	4.0	7.0	6.0	11.0	9.0
19	9.0	8.5	5.5	4.0	4.0	2.5	6.0	5.0	8.5	6.5	11.0	9.5
20	10.0	9.0	6.0	4.5	4.0	2.5	6.5	6.0	9.0	7.5	9.5	8.0
21	11.0	9.0	6.5	5.0	3.0	2.5	7.0	6.5	9.0	8.5	9.5	8.0
22	11.0	9.0	6.5	5.5	6.5	3.0	7.5	7.0	8.5	7.5	10.5	8.5
23	11.0	9.5	6.5	5.5	6.0	5.5	7.5	6.0	7.5	7.0	10.0	8.5
24	9.5	8.0	7.0	6.0	6.5	5.5	6.0	5.0	7.0	6.5	8.5	7.0
25	9.0	7.0	7.0	6.0	6.5	5.5	5.0	4.0	7.5	6.5	8.0	7.5
26	9.0	7.0	7.0	6.5	5.5	5.0	4.0	3.0	8.5	7.5	9.5	8.0
27	9.0	7.5	7.5	6.5	5.0	4.5	3.0	2.5	8.5	8.0	8.0	6.0
28	7.5	6.0	7.5	7.0	4.5	4.0	3.5	2.5	9.0	8.5	8.0	6.0
29	6.5	4.5	8.0	7.0	4.5	4.0	3.0	2.0	---	---	9.0	6.5
30	5.5	5.0	7.0	5.5	4.5	3.5	3.0	2.0	---	---	9.0	7.0
31	6.5	4.5	---	---	4.0	3.0	3.5	2.0	---	---	8.5	7.5
MONTH	14.5	4.5	8.5	3.5	6.5	1.5	7.5	1.5	9.0	1.5	11.0	6.0

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

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 upstream from county bridge, 4.1 miles northeast of Nelson, and 10.5 miles northwest of Oroville.

PERIOD OF RECORD.--Water temperatures: August 1970 to September 1972.
Sediment records: August 1970 to September 1972.

EXTREMES, 1971-72:
Sediment concentrations: Maximum daily, 995 mg/l Dec. 22; minimum daily, no flow for many days during July to September.
Sediment loads: Maximum daily, 573 tons Dec. 22; minimum daily, 0 tons on many days.

Period of record:
Sediment concentrations: Maximum daily, 1,470 mg/l Dec. 4, 1970; minimum daily, no flow for many days each year.
Sediment loads: Maximum daily, 6,050 tons Dec. 4, 1970; minimum daily, 0 tons on many days each year.

REMARKS.--No flow July 25 to Sept. 27.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	10.5	9.5	6.0	13.5	19.0	25.0	---	---	---	---
2	---	---	10.0	---	6.5	15.5	19.0	26.0	25.0	29.0	---	---
3	---	10.0	6.5	4.5	7.5	18.0	23.5	24.0	---	---	---	---
4	---	---	9.5	6.0	7.5	22.0	21.0	24.5	---	27.0	---	---
5	19.5	---	10.5	5.5	8.5	21.0	16.5	22.0	29.5	---	---	---
6	---	---	9.0	7.0	10.0	22.0	17.5	22.0	---	26.0	---	---
7	---	---	6.5	8.0	11.5	21.0	21.5	15.5	28.0	---	---	---
8	---	---	7.0	8.0	10.0	22.0	18.5	22.0	---	27.0	---	---
9	---	---	7.5	8.0	11.5	16.0	17.5	25.5	18.5	---	---	---
10	---	---	5.5	7.0	12.0	16.0	19.5	24.0	---	27.5	---	---
11	---	11.5	---	4.0	12.0	20.0	16.5	27.0	---	---	---	---
12	20.5	---	7.5	5.0	14.5	20.0	13.5	28.0	---	32.0	---	---
13	---	12.0	6.0	7.5	14.0	22.0	7.5	28.0	25.0	---	---	---
14	---	---	5.0	9.5	12.0	21.0	17.5	26.0	---	31.5	---	---
15	25.5	11.0	8.5	10.0	14.5	19.0	21.5	26.0	---	---	---	---
16	---	9.5	7.0	8.0	16.0	24.0	21.0	22.5	---	31.5	---	---
17	---	9.5	10.0	6.5	15.0	24.0	18.0	25.0	27.5	---	---	---
18	---	10.0	9.0	7.0	15.0	20.5	18.0	24.0	---	30.0	---	---
19	---	10.0	9.0	9.0	14.5	19.5	19.5	23.5	---	---	---	---
20	13.5	10.5	8.5	10.0	17.0	22.5	25.0	15.0	30.0	---	---	---
21	---	11.0	4.0	10.0	13.5	20.5	25.0	20.5	28.0	29.5	---	---
22	---	11.5	9.0	10.0	12.0	14.5	25.0	27.5	26.0	---	---	---
23	14.0	10.0	8.5	10.0	11.5	20.0	18.5	27.0	---	---	---	---
24	---	11.5	7.0	8.0	11.5	16.0	21.0	23.5	30.0	---	---	---
25	---	11.5	6.0	7.0	11.5	17.5	21.0	---	---	---	---	---
26	---	10.5	5.5	6.0	17.0	12.0	24.0	27.5	26.5	---	---	---
27	---	10.5	6.0	5.5	17.0	20.0	26.5	---	---	---	---	---
28	8.0	11.0	7.5	7.0	16.0	19.0	18.0	---	28.0	---	---	---
29	---	14.5	8.0	6.5	15.5	21.0	---	27.5	---	---	---	---
30	---	10.5	6.5	6.0	---	21.5	22.5	---	35.0	---	---	---
31	---	---	8.0	8.0	---	17.0	---	26.5	---	---	---	---
MONTH	---	---	7.5	7.5	12.5	19.5	20.0	24.5	---	---	---	---

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	7.9	10	.21	13	3	.11	38	4	.41
2	18	11	.53	13	3	.11	39	7	.74
3	23	12	.75	12	3	.10	44	5	.59
4	17	10	.46	12	3	.10	45	8	.97
5	16	5	.22	11	4	.12	41	7	.77
6	14	5	.19	8.3	5	.11	38	10	1.0
7	13	5	.18	1.0	6	.02	37	6	.60
8	11	5	.15	.40	7	.01	37	2	.20
9	11	5	.15	4.7	8	.10	38	2	.21
10	12	6	.19	10	9	.24	39	8	.84
11	14	6	.23	[illegible]	10	.27	39	20	2.1
12	14	6	.23	16	12	.52	55	88	16
13	18	7	.34	28	14	1.1	52	97	15
14	18	8	.39	31	13	1.1	42	16	1.8
15	19	10	.51	27	12	.87	39	5	.53
16	14	10	.38	20	7	.38	38	4	.41
17	2.2	10	.06	17	6	.28	34	6	.55
18	.40	10	.01	15	6	.24	34	8	.73
19	2.8	11	.08	15	6	.24	35	8	.76
20	19	11	.56	15	6	.24	35	6	.57
21	16	9	.39	16	5	.22	35	5	.47
22	16	6	.26	18	5	.24	139	995	573
23	14	4	.15	19	4	.21	73	263	60
24	15	4	.16	18	4	.19	150	394	307
25	15	4	.16	21	10	.57	180	235	125
26	14	4	.15	21	8	.45	100	68	20
27	14	4	.15	28	6	.45	86	15	3.5
28	15	4	.16	42	8	.91	74	11	2.2
29	15	4	.16	41	6	.66	67	9	1.6
30	13	4	.14	40	37	4.6	62	8	1.3
31	13	4	.14	--	--	--	54	8	1.2
TOTAL	424.30	--	7.84	543.40	--	14.76	1819	--	1140.05

	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	49	8	1.1	42	6	.68	45	8	.97
2	47	11	1.4	28	6	.45	45	12	1.5
3	44	13	1.5	23	5	.31	47	8	1.0
4	35	8	.76	23	10	.62	38	5	.51
5	41	6	.66	113	51	28	35	4	.38
6	41	7	.77	159	94	42	34	6	.55
7	39	6	.63	87	45	11	32	5	.43
8	38	4	.41	47	16	2.0	28	24	2.6
9	38	4	.41	38	8	.82	37	20	2.0
10	37	4	.40	31	5	.42	35	6	.57
11	35	5	.47	27	4	.29	32	8	.69
12	38	4	.41	24	3	.19	32	7	.60
13	38	4	.41	21	3	.17	31	12	1.0
14	38	3	.31	20	2	.11	31	8	.67
15	37	5	.50	19	4	.21	28	12	.91
16	37	2	.20	17	3	.14	28	7	.53
17	35	3	.28	17	3	.14	24	6	.39
18	35	4	.38	17	3	.14	26	6	.42
19	37	4	.40	17	3	.14	27	4	.29
20	39	6	.63	38	25	2.6	27	4	.29
21	39	3	.32	44	24	2.9	28	4	.30
22	45	9	1.5	44	23	2.7	41	32	4.1
23	62	37	6.6	19	22	1.1	34	30	2.9
24	45	9	1.1	12	20	.65	31	10	.84
25	71	67	19	21	20	1.4	28	8	.60
26	74	68	14	47	63	8.6	21	10	.57
27	274	144	127	45	13	1.6	19	7	.36
28	106	47	15	49	9	1.2	26	10	.70
29	74	22	4.4	52	18	2.5	27	7	.51
30	64	15	2.6	--	--	--	27	8	.58
31	52	11	1.5	--	--	--	23	5	.31
TOTAL	1684	--	205.05	1141	--	113.08	967	--	28.07

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	22	5	.30	17	8	.37	11	15	.45
2	21	4	.23	16	9	.39	11	15	.45
3	24	5	.32	12	10	.32	11	14	.42
4	21	4	.23	11	9	.27	14	13	.49
5	26	7	.56	14	6	.23	11	13	.39
6	44	28	3.3	16	7	.30	11	14	.42
7	30	17	1.4	17	4	.18	11	16	.48
8	26	9	.63	17	6	.28	11	18	.53
9	24	6	.39	15	6	.24	13	20	.70
10	23	5	.31	13	9	.32	14	19	.72
11	33	11	1.1	11	10	.30	12	17	.55
12	55	92	16	11	11	.33	11	15	.45
13	62	177	31	11	12	.36	11	14	.42
14	49	75	9.9	10	15	.41	5.7	14	.22
15	42	22	2.5	8.6	16	.37	5.2	15	.21
16	42	10	1.1	11	16	.48	5.2	16	.22
17	41	10	1.1	10	16	.43	5.2	17	.24
18	38	8	.82	10	16	.43	5.7	17	.26
19	38	8	.82	12	10	.32	8.6	16	.37
20	38	7	.72	24	13	.84	8.6	16	.37
21	37	5	.50	32	9	.78	8.6	14	.33
22	37	8	.80	26	7	.49	8.6	16	.37
23	37	6	.60	23	11	.68	6.2	12	.20
24	31	7	.59	22	16	.95	5.7	8	.12
25	27	7	.51	21	14	.79	5.2	8	.11
26	25	10	.68	20	10	.54	5.2	9	.13
27	15	9	.36	15	12	.49	4.4	9	.11
28	17	6	.28	14	14	.53	4.0	9	.10
29	17	8	.37	10	16	.43	3.6	7	.07
30	17	9	.41	11	15	.45	3.2	5	.04
31	--	--	--	11	15	.45	--	--	--
TOTAL	959	--	77.83	471.6	--	13.75	250.9	--	9.94

	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	3.2	10	.09				0	0	0
2	3.2	16	.14				0	0	0
3	3.6	16	.16				0	0	0
4	3.6	16	.16				0	0	0
5	3.2	16	.14				0	0	0
6	2.5	16	.11				0	0	0
7	2.2	16	.10				0	0	0
8	1.9	17	.09				0	0	0
9	1.9	15	.08				0	0	0
10	1.9	12	.06				0	0	0
11	1.6	13	.06				0	0	0
12	1.3	15	.05				0	0	0
13	1.3	19	.07				0	0	0
14	1.3	23	.08				0	0	0
15	1.0	16	.04				0	0	0
16	1.0	9	.02				0	0	0
17	.80	10	.02				0	0	0
18	.20	11	.01				0	0	0
19	.20	13	.01				0	0	0
20	.20	14	.01				0	0	0
21	.10	15	0				0	0	0
22	.10	15	0				0	0	0
23	.04	15	0				0	0	0
24	.01	15	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				.98	5	.01
29	0	0	0				5.2	10	.14
30	0	0	0				6.2	10	.17
31	0	0	0				--	--	--
TOTAL	36.35	--	1.50	0	--	0	12.38	--	.32

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 8308.93
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 1612.19

11390210 CHEROKEE CANAL NEAR NELSON, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.								
22...	1340	11.5	18	5	.24	--	--	--
30...	1700	10.5	40	104	11	--	--	--
DEC.								
22...	0830	8.5	73	71	14	--	--	--
22...	1400	9.0	318	1960	1680	59	72	89
23...	1115	8.0	67	166	30	--	--	--
24...	1630	5.0	147	774	307	51	71	84
25...	1630	5.8	199	221	119	--	--	--
27...	1215	6.5	80	10	2.2	--	--	--
JAN.								
25...	1650	7.0	130	212	74	--	--	--
27...	1700	5.5	290	156	122	--	--	--
FEB.								
22...	1600	13.0	54	24	3.5	--	--	--
MAY								
24...	1050	20.0	23	16	.99	--	--	--

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. 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.								
22...	--	--	--	82	100	--	--	--
30...	--	--	--	98	100	--	--	--
DEC.								
22...	--	--	--	88	89	97	100	--
22...	97	99	--	99	100	100	--	--
23...	--	--	--	97	98	100	--	--
24...	94	96	100	--	--	--	--	--
25...	--	--	--	94	95	98	100	--
27...	--	--	--	90	100	--	--	--
JAN.								
25...	--	--	--	88	92	94	95	100
27...	--	--	--	90	94	99	100	--
FEB.								
22...	--	--	--	96	98	100	--	--
MAY								
24...	--	--	--	76	92	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	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
NOV.							
22...	1420	11.5	18	1	2	4	12
DEC.							
15...	1430	9.0	39	--	--	--	9
27...	1245	6.5	80	--	--	1	11
JAN.							
18...	1200	6.5	37	--	1	3	12
FEB.							
22...	1530	13.0	54	--	1	2	11
MAY							
24...	1030	20.0	23	1	1	4	19

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
NOV.							
22...	18	22	28	42	65	97	100
DEC.							
15...	29	43	54	70	89	100	--
27...	22	28	37	55	84	98	100
JAN.							
18...	19	23	29	42	70	94	100
FEB.							
22...	21	28	38	57	85	100	--
MAY							
24...	31	36	41	60	82	90	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 downstream from Wilkins Slough, 5.8 miles southeast of Grimes, and at mile 62.9 upstream from Sacramento.

DRAINAGE AREA.--12,926 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 20.5°C on several days during August and September; minimum, 5.5°C Jan. 30.

Period of record:
Water temperatures: Maximum, 22.0°C June 23, 1970; minimum, 4.0°C Dec. 26, 1968.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

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 mile upstream from Colusa Drain, 0.35 mile upstream from State Highway 24 bridge at Knights Landing, and approximately 0.3 mile upstream from gaging station at railroad bridge.

PERIOD OF RECORD.--Chemical analyses: July 1960 to September 1972.

REMARKS.--Selected analyses furnished by California Department of Water Resources. Records of discharge given for Sacramento River at Knights Landing (sta 11391000).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	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.										
27...	1400	7710	--	--	--	--	6.9	--	71	0
NOV.										
23...	1400	8360	--	--	--	--	7.4	--	75	0
DEC.										
20...	1345	9470	--	--	--	--	9.4	--	80	0
JAN.										
17...	1345	9160	--	--	--	--	10	--	80	0
FEB.										
10...	1405	12500	--	--	--	--	8.2	--	75	0
MAR.										
15...	1345	19100	--	--	--	--	7.1	--	66	0
APR.										
03...	1415	8540	--	--	--	--	--	--	--	--
MAY										
03...	1500	7370	24	--	11	5.8	7.9	2.1	74	0
04...	0930	6990	24	--	11	6.4	10	2.1	78	0
09...	1430	9330	--	--	--	--	7.6	--	70	0
JUNE										
12...	1320	8420	--	--	--	--	--	--	--	--
JULY										
19...	1400	7460	21	40	11	6.0	8.7	1.2	72	0
26...	1245	7790	--	--	--	--	8.0	--	67	0
AUG.										
15...	1200	6690	--	--	--	--	14	--	83	0
24...	0830	7110	22	50	13	8.2	14	1.3	89	0
SEP.										
19...	1315	8190	--	--	--	--	8.7	--	78	0
29...	1000	8190	20	40	12	7.8	10	1.1	81	0
29...	1100	8190	19	20	9.0	6.0	5.7	.9	63	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 NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT.									
27...	58	--	3.6	--	--	--	--	--	--
NOV.									
23...	62	--	3.8	--	--	--	--	--	--
DEC.									
20...	66	--	5.7	--	--	--	--	--	--
JAN.									
17...	66	--	5.9	--	--	--	--	--	--
FEB.									
10...	62	--	5.9	--	--	--	--	--	--
MAR.									
15...	54	--	3.6	--	--	--	--	--	--
APR.									
03...	--	--	--	--	--	--	--	--	--
MAY									
03...	61	6.6	4.0	.1	.49	.00	.13	.62	.07
04...	64	9.9	5.3	.2	.20	.01	.11	.32	.08
09...	57	--	4.4	--	--	--	--	--	--
JUNE									
12...	--	--	--	--	--	--	--	--	--
JULY									
19...	59	8.2	3.0	.1	.05	.00	.13	.18	.10
26...	55	--	3.5	--	--	--	--	--	--
AUG.									
15...	68	--	7.2	--	--	--	--	--	--
24...	73	12	6.6	.1	.01	.00	.52	.53	.30
SEP.									
19...	64	--	5.2	--	--	--	--	--	--
29...	66	10	5.9	.2	--	--	--	--	--
29...	52	10	6.4	.2	--	--	--	--	--

11390650 SACRAMENTO RIVER ABOVE COLUSA TROUGH, AT KNIGHTS LANDING, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)
OCT.								
27...	--	--	56	0	136	7.5	13.0	15
NOV.								
23...	--	--	57	0	141	7.7	11.0	20
DEC.								
20...	--	--	58	0	154	7.7	7.0	7
JAN.								
17...	--	--	60	0	159	7.8	7.5	10
FEB.								
10...	--	--	58	0	152	7.4	9.0	10
MAR.								
15...	--	--	53	0	128	7.5	12.0	14
APR.								
03...	--	--	--	--	138	--	15.5	11
MAY								
03...	99	.13	51	0	--	7.1	17.5	--
04...	108	.15	54	0	163	7.0	17.0	--
09...	--	--	51	0	133	7.7	16.5	5
JUNE								
12...	--	--	--	--	--	--	17.5	16
JULY								
19...	95	.13	52	0	137	6.4	21.5	--
26...	--	--	51	0	131	7.5	21.0	8
AUG.								
15...	--	--	58	0	178	7.6	20.0	11
24...	122	.17	66	0	188	7.3	20.5	--
SEP.								
19...	--	--	55	0	151	7.5	19.0	4
29...	107	.15	62	0	169	6.2	17.0	--
29...	88	.12	47	0	119	6.2	17.0	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.						
27...	1400	7710	130	7.4	13.0	10.8
NOV.						
23...	1400	8360	--	7.3	11.0	10.8
DEC.						
20...	1345	9470	--	7.6	7.0	11.8
JAN.						
17...	1345	9160	--	7.3	7.5	11.7
FEB.						
10...	1405	12500	--	7.4	9.0	11.4
MAR.						
15...	1345	19100	153	7.4	12.0	10.8
APR.						
03...	1415	8540	145	7.4	15.5	10.6
MAY						
03...	1500	7370	140	7.1	17.5	--
04...	0930	6990	163	7.0	17.0	--
09...	1430	9330	114	7.5	16.5	10.4
JUNE						
12...	1320	8420	135	7.5	17.5	9.5
JULY						
19...	1400	7460	137	6.4	21.5	--
26...	1245	7790	--	7.6	21.0	9.2
AUG.						
15...	1200	6690	--	7.6	20.0	9.3
24...	0830	7110	188	7.3	20.5	--
SEP.						
19...	1315	8190	--	7.5	19.0	9.3
29...	1000	8190	169	6.2	17.0	--
29...	1100	8190	119	6.2	17.0	--

11390650 SACRAMENTO RIVER ABOVE COLUSA TROUGH, AT KNIGHTS LANDING, CALIF.--Continued

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
OCT.				
27...	1400	--	0	--
NOV.				
23...	1400	--	0	--
DEC.				
20...	1345	--	100	--
JAN.				
17...	1345	--	0	--
FEB.				
10...	1405	--	100	--
MAR.				
15...	1345	--	100	--
MAY				
03...	1500	0	60	0
04...	0930	0	70	0
09...	1430	--	0	--
JULY				
19...	1400	--	60	--
26...	1245	--	100	--
AUG.				
15...	1200	--	100	--
24...	0830	--	80	--
SEP.				
19...	1315	--	100	--
29...	1000	--	30	--
29...	1100	1	70	0

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 miles west of Colusa, on State Highway 20, and 6 miles northeast of Williams.

PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), October 1953 to September 1972.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 NITRATE (N) (MG/L)
OCT.												
27...	0900	158	--	--	--	--	--	--	--	--	--	--
NOV.												
23...	0945	241	--	--	--	--	--	--	--	--	--	--
DEC.												
20...	0845	99	--	--	--	--	--	--	--	--	--	--
JAN.												
17...	0915	240	--	--	130	--	311	0	255	--	70	--
FEB.												
10...	0835	135	--	--	186	--	297	32	297	--	116	--
MAR.												
15...	0825	118	--	--	91	--	211	0	173	--	51	--
APR.												
03...	0830	688	21	22	32	1.8	145	0	119	--	36	.32
MAY												
09...	0830	1380	--	--	45	--	144	0	118	39	21	--
JUNE												
12...	0715	576	--	--	--	--	--	--	--	--	--	--
JULY												
26...	0805	549	--	--	50	--	210	0	172	--	26	--
AUG.												
15...	0800	545	--	--	--	--	--	--	--	--	--	--
SEP.												
19...	0845	990	--	--	50	--	202	0	166	--	24	--

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)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.												
27...	--	--	--	--	--	--	--	--	--	11.5	23	--
NOV.												
23...	--	--	--	--	--	--	--	--	--	9.5	33	--
DEC.												
20...	--	--	--	--	--	--	--	--	--	4.5	24	--
JAN.												
17...	--	--	--	252	0	--	3.6	1030	8.0	6.0	--	400
FEB.												
10...	--	--	--	338	41	--	4.4	1430	8.5	9.0	30	300
MAR.												
15...	--	--	--	193	20	--	2.9	737	7.7	15.0	36	300
APR.												
03...	214	.29	398	108	0	32	1.2	350	7.7	16.5	52	100
MAY												
09...	--	--	--	114	0	--	1.8	422	8.1	18.5	66	200
JUNE												
12...	--	--	--	--	--	--	--	--	--	20.0	51	--
JULY												
26...	--	--	--	159	0	--	1.7	512	7.5	21.5	28	300
AUG.												
15...	--	--	--	--	--	--	--	--	--	19.0	28	--
SEP.												
19...	--	--	--	146	0	--	1.8	470	7.8	17.0	20	200

11390700 COLUSA TROUGH NEAR COLUSA, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
27...	0900	158	590	7.7	11.5	9.7
NOV.						
23...	0945	241	541	7.7	9.5	10.5
DEC.						
20...	0845	99	994	8.1	4.5	11.9
JAN.						
17...	0915	240	1030	8.0	6.0	11.2
FEB.						
10...	0835	135	1390	8.1	9.0	10.0
MAR.						
15...	0825	118	705	7.9	15.0	8.8
APR.						
03...	0830	688	392	7.7	16.5	8.6
MAY						
09...	0830	1380	400	7.6	18.5	8.2
JUNE						
12...	0715	576	611	8.2	20.0	6.9
JULY						
26...	0805	549	--	7.5	21.5	7.1
AUG.						
15...	0800	545	553	7.6	19.0	7.4
SEP.						
19...	0845	990	--	7.5	17.0	8.4

11392500 MIDDLE FORK FEATHER RIVER NEAR CLIO, CALIF.

LOCATION.--Lat 39°45'14", long 120°35'42", in SE¼ sec.23, T.22 N., R.12 E., Plumas County, temperature recorder at gaging station on left bank, 0.6 mile upstream from Frazier Creek, 1.0 mile northwest of Clio, and 2.2 miles southeast of Blairsden.

DRAINAGE AREA.--686 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 26.5°C July 15-17; minimum, freezing point on many days during December to February.

Period of record:
Water temperatures: Maximum, 26.5°C July 15-17, 1972; minimum (1963-66, 1968-72), freezing point on many days in 1963, 1969, 1971-72.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	5.0	5.5	1.0	3.5	1.5	0.0	0.0	0.0	0.0	3.5	3.0
2	12.0	5.5	6.0	1.5	2.0	0.5	0.0	0.0	0.0	0.0	5.0	3.5
3	13.0	6.0	6.0	2.0	2.5	0.5	0.0	0.0	0.5	0.0	6.5	5.0
4	13.5	7.0	6.0	2.0	2.0	0.0	0.0	0.0	2.0	0.0	9.0	6.0
5	14.5	7.5	6.0	2.5	3.0	0.5	0.0	0.0	1.5	0.5	10.0	6.0
6	15.0	8.5	6.0	2.0	3.5	1.0	0.0	0.0	2.5	0.5	10.5	6.0
7	15.5	9.0	6.0	2.0	1.0	0.0	0.0	0.0	3.0	0.5	10.0	6.0
8	15.5	9.0	5.5	2.5	0.5	0.0	0.0	0.0	2.5	0.0	10.5	6.0
9	15.0	9.0	6.5	3.5	2.5	0.0	0.0	0.0	2.5	0.0	10.5	6.5
10	15.0	9.5	6.5	3.5	2.0	0.0	0.0	0.0	2.5	0.0	9.5	7.5
11	15.0	9.0	7.0	5.0	1.5	0.0	0.0	0.0	3.0	0.0	10.0	6.0
12	14.0	9.0	6.5	4.5	0.0	0.0	1.0	0.0	3.5	0.0	9.0	6.5
13	14.5	9.0	5.0	3.0	0.5	0.0	1.0	0.0	3.5	0.0	10.0	6.0
14	14.0	9.5	5.0	2.5	1.0	0.0	1.0	0.0	2.5	0.0	10.0	6.0
15	11.0	8.0	3.0	2.0	0.0	0.0	1.0	0.0	3.0	0.0	10.0	6.0
16	8.0	6.5	3.5	1.5	0.0	0.0	1.0	0.0	3.5	0.0	11.5	6.5
17	7.5	6.0	3.5	0.5	0.0	0.0	1.5	0.0	3.5	0.0	12.0	7.5
18	9.5	5.5	2.5	1.5	0.5	0.0	2.5	0.5	4.5	0.5	12.0	8.5
19	10.5	5.5	3.5	0.5	0.5	0.0	2.5	0.5	5.0	1.5	11.0	7.5
20	10.0	6.5	4.0	0.5	0.5	0.0	2.5	1.0	4.5	2.0	11.5	7.0
21	10.0	5.0	4.5	1.5	1.0	0.0	3.0	1.0	4.0	2.0	12.0	8.0
22	10.0	5.0	5.0	2.0	0.0	0.0	2.5	1.0	2.0	0.5	9.5	6.0
23	9.0	5.5	4.0	2.0	0.0	0.0	1.0	0.0	1.5	0.5	10.0	5.5
24	9.0	5.5	5.5	3.0	1.0	0.0	1.0	0.0	1.5	0.5	10.0	6.0
25	8.0	3.5	5.0	2.5	0.0	0.0	0.0	0.0	3.0	0.5	9.5	6.0
26	8.0	3.5	5.5	3.5	0.0	0.0	0.0	0.0	3.0	1.0	8.5	4.5
27	8.0	4.5	5.0	3.0	0.0	0.0	0.0	0.0	3.0	0.5	8.5	4.0
28	5.0	2.5	5.5	3.5	1.0	0.0	0.0	0.0	3.5	1.5	8.5	4.5
29	4.0	0.5	5.0	3.0	1.0	0.0	0.5	0.0	3.5	3.0	9.5	5.0
30	4.5	1.0	4.5	2.5	1.0	0.0	0.0	0.0	---	---	10.5	5.0
31	5.0	1.5	---	---	0.0	0.0	0.0	0.0	---	---	9.5	6.0
MONTH	15.5	0.5	7.0	0.5	3.5	0.0	3.0	0.0	5.0	0.0	12.0	3.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	7.0	16.0	7.5	20.0	13.0	25.5	17.5	23.0	16.5	19.0	16.5
2	12.0	7.0	17.0	9.0	19.0	13.0	25.0	18.0	23.0	16.5	19.0	13.5
3	13.0	7.5	17.0	9.5	20.5	12.5	24.5	17.0	23.5	17.0	19.0	14.0
4	12.0	8.5	17.0	9.5	21.5	12.5	24.5	17.0	24.0	17.5	18.0	16.0
5	10.0	7.0	17.5	9.5	22.0	14.0	23.0	18.0	24.0	17.5	16.5	16.0
6	10.5	6.0	16.5	9.0	20.5	15.0	23.5	16.0	24.5	17.5	17.0	13.5
7	10.5	5.5	13.0	8.5	21.5	15.5	22.0	16.5	24.5	18.0	13.5	13.5
8	10.5	6.0	15.5	7.0	19.0	15.0	21.0	15.0	23.5	18.5	17.5	11.5
9	11.0	6.0	16.0	8.0	18.5	13.5	21.5	14.5	24.5	18.5	16.5	15.5
10	10.5	7.0	17.0	9.0	18.0	12.0	21.5	15.5	24.5	19.0	15.5	14.0
11	7.0	4.0	17.5	9.0	18.5	10.5	23.5	15.5	23.5	18.0	14.0	11.0
12	5.0	3.0	18.5	9.5	20.5	12.5	24.5	17.0	21.5	16.0	11.5	11.5
13	6.0	2.0	19.0	10.0	22.5	14.0	24.5	18.0	21.0	15.0	14.5	11.5
14	10.0	3.5	18.0	10.5	22.0	14.0	26.0	18.0	21.0	14.5	14.0	9.0
15	11.5	6.0	18.0	10.5	22.0	14.5	26.5	19.0	18.5	14.0	15.5	9.0
16	12.5	8.0	18.0	10.0	22.5	15.0	26.5	22.5	18.5	12.5	15.5	15.0
17	11.0	7.0	17.5	9.5	22.0	14.0	26.5	20.0	20.0	14.5	15.5	10.0
18	9.5	6.0	17.0	8.5	23.5	15.5	25.5	25.5	21.0	15.0	10.0	10.0
19	10.0	5.0	12.5	9.0	24.0	15.5	25.5	19.0	19.5	15.0	16.0	10.0
20	11.5	5.0	11.0	9.0	23.0	15.5	23.0	22.0	19.5	14.5	15.5	10.0
21	12.5	6.5	12.0	8.5	23.5	15.0	22.5	16.0	20.0	14.0	12.5	10.5
22	14.0	7.0	16.0	9.5	22.5	15.5	21.0	15.5	19.5	13.5	15.0	11.0
23	13.5	8.0	17.0	11.0	21.5	15.0	22.0	15.5	20.5	14.0	15.0	12.5
24	13.0	7.0	18.0	11.5	21.0	13.5	22.5	16.0	20.0	15.0	13.0	7.5
25	13.5	7.5	19.0	13.0	21.0	13.5	21.5	15.5	20.0	14.0	8.0	8.0
26	14.0	7.0	20.5	13.5	22.5	14.5	22.0	16.0	20.0	14.0	12.5	8.0
27	15.0	6.5	22.0	13.5	24.0	16.0	22.5	16.0	20.5	14.5	11.5	11.0
28	14.5	7.0	22.0	14.0	25.0	17.5	23.5	16.5	20.0	15.0	11.5	11.5
29	14.0	6.5	21.0	13.5	25.0	18.0	23.5	18.0	21.0	15.5	11.5	11.0
30	14.5	6.5	21.0	13.5	25.0	17.0	23.5	19.0	21.5	16.0	11.0	9.5
31	---	---	21.0	13.5	---	---	24.0	18.5	21.0	16.0	---	---
MONTH	15.0	2.0	22.0	7.0	25.0	10.5	26.5	14.5	24.5	12.5	19.0	7.5

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 downstream from bridge on Milsap Bar Road, 500 ft downstream from Little North Fork, 4.5 miles southeast of Merrimac, and 20 miles northeast of Oroville.

DRAINAGE AREA.--1,062 sq mi.

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 September 1972.
Sediment records: Water years 1970-72 (partial-record station).

EXTREMES, 1971-72:
Water temperatures: Maximum, 24.0°C July 17, 18; minimum, 0.5°C Jan. 4, 5, 27, 28.

Period of record:
Water temperatures: Maximum (1964-72), 24.0°C Aug. 3, 1966, July 17, 18, 1972; minimum (1962-64, 1965-72), 0.5°C on several days in 1966-68, 1970, and 1972.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	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)
OCT.											
28...	1220	288	2.8	1.7	.00	.06	.16	.22	.22	.06	.02
AUG.											
24...	1100	158	--	--	.00	.02	.09	.11	.11	.04	.02

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
28...	112	.15	87.1	148	5.5	5	0	.2	1.0	.00
AUG.										
24...	--	--	--	--	18.5	--	--	--	--	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.												
28...	1220	288	77	0	63	144	8.2	5.5	11.9	100	160	2
AUG.												
24...	1100	158	84	0	69	151	8.2	18.5	9.3	103	--	--

11394500 MIDDLE FORK FEATHER RIVER NEAR MERRIMAC, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
AUG. 24...	1100	.00	<.2	.0	<1	.00	<.2	.00	<.2	.00	<.2

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG. 24...	.00	<.2	.00	<.2	.00	<.2	.00	<.2	.00	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
AUG. 24...	1100	1	0	0	2	5	.6	40

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS,
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER-ATURE (DEG C)	DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)
OCT. 28...	1400	6.0	284	1	.77
DEC. 01...	1000	5.0	430	2	2.3
JAN. 05...	1215	1.0	445	0	.00
FEB. 01...	1245	1.0	754	3	6.1
MAR. 06...	1430	7.5	3420	10	92
APR. 03...	1210	9.0	1520	3	12
MAY 02...	1120	10.0	1900	3	15
31...	1200	15.0	1560	4	17

11394500 MIDDLE FORK FEATHER RIVER NEAR MERRIMAC, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	9.0	5.0	4.0	6.0	5.0	3.0	2.0	1.5	1.0	6.0	5.5
2	10.5	9.5	5.5	4.5	5.0	4.5	3.0	2.5	1.5	1.0	6.5	5.5
3	11.0	10.0	5.5	5.0	4.5	4.0	2.5	1.5	2.0	1.0	7.5	6.5
4	11.5	10.0	5.5	5.0	4.0	3.5	1.5	0.5	3.0	2.0	8.0	7.5
5	12.0	11.0	6.0	5.0	4.0	3.5	1.0	0.5	3.5	3.0	8.0	8.0
6	13.0	12.0	6.0	5.0	5.0	4.0	2.0	1.0	4.0	3.5	8.0	7.5
7	13.5	13.0	5.5	5.0	5.0	3.5	2.0	1.5	4.5	4.0	8.5	8.0
8	14.0	13.0	6.0	5.5	3.5	2.5	2.0	1.5	5.0	4.5	8.5	8.0
9	14.0	13.5	6.0	5.5	2.5	2.0	2.0	1.5	5.0	4.5	9.0	8.5
10	14.0	13.5	6.5	6.0	2.5	2.0	2.0	1.5	5.0	4.5	9.0	8.5
11	14.0	13.5	7.5	6.5	3.0	2.5	2.0	1.5	5.0	4.0	8.5	8.0
12	13.5	13.0	8.0	7.5	3.0	1.5	2.0	1.5	5.0	4.5	8.5	8.0
13	13.0	12.5	8.0	7.0	1.5	1.0	2.5	2.0	5.0	4.5	8.5	8.0
14	13.0	12.5	7.0	6.0	1.5	1.0	2.5	2.0	5.0	4.5	8.5	8.0
15	12.5	11.0	6.0	5.0	2.0	1.5	3.0	2.5	5.5	5.0	8.0	8.0
16	11.0	9.5	5.0	4.5	1.5	1.0	2.5	2.0	5.5	5.0	8.5	8.0
17	9.5	8.5	5.0	4.5	2.0	1.5	2.5	2.0	5.5	5.0	9.0	8.5
18	8.5	8.0	4.5	4.0	2.0	1.5	3.5	2.5	5.5	5.0	9.0	8.5
19	8.0	7.5	4.5	4.0	2.0	1.5	3.5	3.0	6.0	5.5	8.5	8.0
20	9.0	8.0	5.0	4.5	2.0	1.5	3.5	3.5	6.5	6.0	8.0	8.0
21	9.0	8.5	5.5	5.0	2.0	1.5	4.5	3.5	7.0	6.5	8.5	8.0
22	9.5	8.5	5.5	5.0	3.0	2.0	5.5	4.5	7.0	6.0	8.5	7.5
23	9.5	9.0	6.0	5.5	3.0	3.0	5.0	4.0	6.0	5.5	7.5	7.0
24	9.0	8.5	6.0	5.5	4.0	3.0	4.0	3.5	5.5	5.5	7.0	7.0
25	8.5	7.5	6.5	6.0	3.5	3.0	3.5	2.5	5.5	5.5	7.5	7.0
26	7.5	7.5	6.5	6.0	3.0	2.5	2.5	1.5	6.0	5.5	7.0	6.0
27	8.0	7.5	7.0	6.5	3.0	3.0	1.5	0.5	6.0	6.0	6.0	5.5
28	7.5	5.5	7.0	7.0	3.0	2.5	1.5	0.5	6.5	6.0	6.0	5.5
29	5.5	4.0	7.0	6.5	2.5	2.0	1.5	1.0	6.5	6.0	7.0	6.0
30	4.5	4.0	6.5	6.0	3.0	2.5	1.0	1.0	---	---	7.0	6.0
31	5.0	4.0	---	---	3.0	2.5	1.0	1.0	---	---	7.5	7.0
MONTH	14.0	4.0	8.0	4.0	6.0	1.0	5.5	0.5	7.0	1.0	9.0	5.5

	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	15.5	14.0	21.5	20.0	21.5	19.5	20.5	19.0
2	9.0	8.0	11.5	10.0	15.0	14.5	21.5	20.5	21.0	19.0	20.0	19.0
3	10.0	9.0	11.5	10.5	15.0	14.0	21.0	20.0	21.0	18.5	20.0	18.5
4	10.5	9.5	11.0	10.0	15.0	14.0	21.0	19.5	21.0	19.0	19.0	18.5
5	10.5	7.5	11.5	10.5	17.0	15.0	21.0	19.0	21.5	19.5	18.5	18.0
6	8.0	7.0	11.5	10.5	17.0	16.0	21.0	19.0	21.5	19.5	18.5	17.0
7	8.0	7.0	11.0	9.0	17.0	16.0	20.0	18.5	22.0	20.0	18.5	17.5
8	8.5	7.5	10.0	8.5	16.5	16.0	19.5	18.0	22.0	20.5	18.5	17.0
9	8.5	8.0	11.0	9.5	16.0	14.5	19.5	18.0	23.0	21.5	18.5	17.0
10	8.5	8.0	11.0	10.0	14.5	13.5	20.0	18.0	23.0	21.5	17.5	16.5
11	8.5	6.5	11.5	11.0	13.5	12.5	20.5	18.5	23.0	21.5	16.5	15.5
12	6.5	5.0	12.0	11.0	15.0	13.5	21.5	19.0	22.5	19.5	15.5	14.0
13	6.0	5.0	12.5	11.5	16.5	15.0	22.0	19.5	21.0	19.0	16.0	14.5
14	7.5	5.5	12.5	12.0	17.0	16.5	22.5	20.5	20.0	18.5	16.0	14.5
15	9.0	7.5	12.5	12.0	17.5	17.0	23.0	20.5	19.0	17.5	16.5	15.0
16	9.5	8.5	12.0	11.5	17.5	17.0	23.5	21.5	18.0	16.5	17.0	15.0
17	9.0	8.5	12.0	11.5	18.0	17.0	24.0	22.0	17.5	16.0	17.0	15.5
18	9.0	7.5	12.0	11.0	18.5	17.5	24.0	22.0	19.0	16.5	17.0	15.5
19	8.0	7.0	11.0	10.0	19.0	18.0	22.5	21.5	19.0	17.5	16.0	15.5
20	9.0	7.5	10.0	8.5	19.0	18.0	21.5	20.0	19.5	17.5	15.5	14.5
21	10.0	8.5	9.0	8.5	19.0	18.0	20.5	19.0	19.5	17.5	15.5	14.0
22	10.0	9.0	10.5	8.5	18.5	17.5	20.5	18.5	19.5	18.0	15.5	14.5
23	10.0	9.5	12.0	10.5	18.0	17.5	20.5	19.0	20.0	18.0	14.5	13.5
24	10.0	9.0	13.0	12.0	17.5	16.5	20.5	19.0	20.0	18.5	14.5	13.0
25	9.5	8.5	14.0	12.5	17.5	16.0	20.5	19.0	20.0	18.5	13.0	12.5
26	10.0	9.0	14.5	13.5	18.0	16.5	20.5	18.5	20.0	18.5	13.5	12.5
27	10.5	9.5	15.0	14.0	19.0	17.5	20.0	18.0	20.5	18.5	14.0	13.5
28	10.5	9.5	16.0	15.0	20.0	18.5	20.5	18.5	21.0	19.0	14.5	13.5
29	10.0	8.5	15.5	15.0	21.0	19.5	20.0	19.0	21.0	19.5	15.0	14.0
30	9.5	8.0	15.5	14.5	21.0	20.0	21.0	19.0	21.0	19.5	15.5	14.0
31	---	---	16.0	15.0	---	---	21.5	19.5	20.5	19.5	---	---
MONTH	10.5	5.0	16.0	8.5	21.0	12.5	24.0	18.0	23.0	16.0	20.5	12.5

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 miles upstream from Indian Creek, and 2 miles south of Genesee.
DRAINAGE AREA.--29.6 sq mi.
PERIOD OF RECORD.--Water temperatures: August 1964 to September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 17.0°C July 17, 28, 29; minimum, freezing point on many days during December and January.
Period of record:
Water temperatures: Maximum, 20.0°C July 15, 1970; minimum, freezing point on many days during winter period of most years.
REMARKS.--Recorder malfunction Feb. 4-10, May 17 to June 13, Sept. 11-19; range in temperature, 0.5°C to 2.0°C, 5.0°C to 14.5°C, and 10.5°C to 12.0°C, respectively.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	6.0	3.5	2.5	2.0	1.0	0.0	0.0	0.5	0.0	5.0	4.0
2	8.5	6.5	3.5	2.5	1.0	0.5	0.0	0.0	0.5	0.0	5.0	3.5
3	9.5	7.0	3.5	2.5	1.0	0.5	0.5	0.0	0.5	0.5	4.5	4.0
4	10.0	7.5	4.0	3.0	1.0	0.5	0.5	0.5	---	---	5.5	4.5
5	10.0	8.0	4.0	3.0	1.5	0.5	0.5	0.5	---	---	5.5	4.0
6	10.5	8.5	3.5	2.5	2.0	1.5	1.0	0.5	---	---	5.5	4.0
7	11.0	9.0	4.0	2.5	1.5	0.5	1.0	0.5	---	---	5.5	4.0
8	11.0	9.0	4.5	3.5	1.0	0.0	1.0	1.0	---	---	6.0	4.0
9	10.5	9.0	5.0	4.0	0.0	0.0	1.0	0.5	---	---	6.0	4.5
10	11.0	9.0	5.0	4.0	0.0	0.0	0.5	0.5	1.5	1.0	5.5	4.5
11	10.5	9.0	6.0	5.0	0.0	0.0	0.5	0.5	2.0	1.0	6.0	5.0
12	10.5	8.5	5.5	4.5	0.0	0.0	1.0	0.5	2.0	1.0	6.5	5.0
13	10.5	8.5	5.0	2.0	0.0	0.0	1.0	1.0	2.0	1.0	6.0	4.5
14	10.0	9.0	3.5	2.5	0.0	0.0	1.0	0.5	2.0	1.5	6.0	4.0
15	9.5	7.5	3.0	2.0	0.0	0.0	0.5	0.0	2.5	1.5	6.5	4.0
16	7.5	6.0	3.0	2.0	0.0	0.0	0.5	0.0	2.5	1.5	7.0	4.0
17	6.5	5.5	2.0	1.5	0.0	0.0	1.5	0.5	2.0	1.0	7.0	4.5
18	6.5	6.0	2.5	1.5	0.0	0.0	1.5	1.5	2.5	1.5	6.5	4.5
19	6.5	5.5	2.0	1.5	0.0	0.0	2.0	1.5	3.5	2.5	6.5	4.0
20	7.5	6.0	2.5	1.5	0.0	0.0	3.0	2.0	4.0	3.0	7.5	4.0
21	7.0	5.5	3.0	2.0	0.0	0.0	3.5	2.5	4.0	3.0	7.0	4.5
22	7.0	5.5	3.0	2.5	0.0	0.0	3.5	3.0	3.5	3.0	5.0	4.0
23	7.0	6.5	3.5	2.5	0.5	0.0	3.0	3.0	3.5	3.0	6.5	4.0
24	6.5	5.0	5.0	3.5	1.0	0.0	3.0	2.0	4.0	3.5	6.5	4.5
25	5.5	4.5	4.0	3.0	0.0	0.0	2.0	1.0	5.0	4.0	6.0	3.0
26	6.5	4.5	5.0	4.0	0.5	0.0	1.5	1.0	5.0	4.0	5.0	2.5
27	6.5	5.5	4.0	3.0	0.0	0.0	1.0	0.5	5.0	4.0	5.0	2.5
28	5.5	3.0	3.5	2.5	0.5	0.0	1.0	0.5	5.0	4.5	5.5	3.0
29	3.0	2.5	3.5	2.5	0.5	0.0	0.5	0.0	5.0	4.0	6.0	3.5
30	4.0	2.5	3.5	2.0	0.0	0.0	0.5	0.0	---	---	6.5	3.0
31	4.0	3.0	---	---	0.0	0.0	0.5	0.0	---	---	7.0	4.0
MONTH	11.0	2.5	6.0	1.5	2.0	0.0	3.5	0.0	5.0	0.0	7.5	2.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	5.5	10.0	5.0	---	---	14.5	13.5	16.0	14.5	14.0	12.5
2	8.0	6.0	10.0	5.5	---	---	14.5	13.5	16.0	14.5	14.0	12.5
3	8.5	5.0	10.5	6.0	---	---	14.5	13.0	16.0	14.5	14.0	12.5
4	8.5	6.0	10.5	6.0	---	---	14.5	13.0	16.5	15.0	14.0	13.5
5	6.5	5.5	11.0	6.5	---	---	15.0	14.0	16.5	15.0	14.0	13.5
6	6.5	5.0	10.0	6.5	---	---	15.0	13.0	16.5	15.0	14.0	13.5
7	7.5	5.0	8.5	6.0	---	---	14.5	12.5	16.0	15.0	14.0	12.5
8	7.5	4.5	10.0	5.5	---	---	14.5	12.5	16.0	15.0	13.5	12.5
9	7.5	4.5	10.0	6.0	---	---	14.5	12.5	16.5	15.0	13.0	12.0
10	6.0	5.0	10.5	6.5	---	---	15.0	13.0	16.5	15.0	13.0	12.0
11	5.5	4.0	11.0	6.5	---	---	15.5	13.5	16.0	15.0	---	---
12	4.0	3.0	11.5	7.0	---	---	16.0	14.5	15.5	14.0	---	---
13	4.5	2.5	11.5	7.0	13.5	10.0	16.0	14.5	15.0	14.0	---	---
14	6.5	2.5	11.0	7.5	12.0	10.5	16.0	14.5	14.5	13.5	---	---
15	8.0	4.0	11.0	7.5	11.5	10.0	16.0	15.0	14.0	13.0	---	---
16	8.0	5.0	11.0	7.0	11.5	10.0	16.5	15.5	14.5	13.5	---	---
17	7.5	4.0	---	---	12.5	10.5	17.0	16.0	14.0	13.5	---	---
18	6.0	3.0	---	---	12.5	11.0	16.5	16.0	14.5	13.5	---	---
19	7.0	3.5	---	---	12.5	11.0	16.5	15.5	14.5	13.5	---	---
20	8.5	4.0	---	---	12.5	11.5	15.5	14.5	14.5	13.5	12.0	11.0
21	9.0	5.0	---	---	13.0	11.0	16.0	14.0	15.0	13.5	11.5	10.0
22	9.0	5.0	---	---	12.5	11.0	16.0	14.0	15.0	13.5	12.0	11.0
23	9.0	5.0	---	---	13.0	11.5	16.5	15.0	15.0	13.5	12.0	10.0
24	7.0	5.0	---	---	12.5	11.0	16.5	15.0	14.5	13.0	10.5	9.5
25	8.5	5.0	---	---	13.0	11.0	16.5	14.5	14.5	13.0	10.0	9.0
26	9.5	5.0	---	---	13.0	11.0	16.5	14.5	14.0	13.0	10.5	10.0
27	10.0	5.0	---	---	13.5	12.0	16.5	15.0	14.0	12.5	11.0	10.5
28	9.5	5.5	---	---	14.0	12.5	17.0	15.0	14.5	13.0	11.0	10.5
29	8.0	4.0	---	---	14.5	13.0	17.0	15.5	14.5	13.5	10.5	9.5
30	9.0	4.0	---	---	14.5	13.0	16.5	15.5	15.0	14.0	10.5	9.5
31	---	---	---	---	---	---	16.0	15.0	15.0	13.5	---	---
MONTH	10.0	2.5	---	---	---	---	17.0	12.5	16.5	12.5	---	---

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 mile upstream from Dixie Creek, and 1.5 miles south of Crescent Mills.

DRAINAGE AREA.--739 sq mi.

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 September 1972.
Sediment records: Water years 1957-66 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 27.0°C June 29; minimum, freezing point on several days during December and January.

Period of record:
Water temperatures (1962-65, 1966-72): Maximum, 28.0°C July 26-28, 1963; minimum (1962-64, 1966-72), freezing point on many days during most years.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	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)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
27...	1500	101	--	--	--	--	--	--	--	--	--	--
FEB.												
26...	1100	903	--	--	0	--	--	--	--	--	--	--
MAY												
16...	1630	528	23	90	--	9.7	3.0	3.8	1.0	55	0	45
17...	0400	520	--	--	--	--	--	--	--	--	--	--
17...	1100	520	--	--	--	--	--	--	--	--	--	--
SEP.												
06...	1515	28	--	--	--	--	--	--	--	--	--	--

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 AMMONIA NITRO-GEN (N) (MG/L)	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 (SUM OF CONSTI-TUENTS) (MG/L)
OCT.											
27...	--	--	--	.01	.14	.16	.30	.31	.06	.03	--
FEB.											
26...	--	--	--	.08	.15	.28	.43	.51	.08	.00	--
MAY											
16...	2.1	.4	.1	.01	.02	.22	.24	.25	.04	.01	70
17...	--	--	--	.02	.03	.12	.15	.17	.04	.01	--
17...	--	--	--	.01	.03	.10	.13	.14	.04	.01	--
SEP.											
06...	--	--	--	.01	.04	.37	.41	.42	.10	.06	--

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)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.											
27...	--	--	--	--	--	--	--	--	7.0	2	--
FEB.											
26...	--	--	--	--	--	--	--	--	5.0	25	.00
MAY											
16...	.10	99.8	37	0	18	.3	89	6.8	15.5	--	--
17...	--	--	--	--	--	--	--	--	12.5	--	--
17...	--	--	--	--	--	--	--	--	12.5	--	--
SEP.											
06...	--	--	--	--	--	--	--	--	24.5	--	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.										
27...	1500	101	--	--	--	158	7.6	7.0	10.2	96
FEB.										
26...	1100	903	--	--	--	108	7.3	5.0	10.5	94
MAY										
16...	1630	528	50	0	41	86	7.6	15.5	8.9	101
17...	0400	520	52	0	43	--	7.4	12.5	8.4	89
17...	1100	520	52	0	43	--	7.6	12.5	9.0	96
SEP.										
06...	1515	28	124	0	102	213	7.4	24.5	8.7	118

11401500 INDIAN CREEK NEAR CRESCENT MILLS, CALIF.--Continued

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (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 ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
FEB. 26...	6	--	--	0	--	3	--	1	--	1.5	--	20
SEP. 06...	--	0	0	--	2	--	2	--	.5	--	30	--

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	7.5	7.0	3.5	6.5	5.0	1.5	0.0	2.0	0.5	4.5	2.5
2	11.0	8.0	7.0	4.0	6.0	5.0	1.5	0.0	2.0	0.5	7.5	4.5
3	11.0	8.5	7.0	4.0	5.5	4.5	0.0	0.0	2.5	1.0	7.0	5.0
4	11.5	9.0	7.0	4.0	5.5	4.5	1.0	0.0	4.0	2.0	8.0	4.5
5	11.5	9.5	7.0	5.5	6.0	5.5	0.5	0.0	4.0	3.0	8.0	5.0
6	11.5	10.0	7.0	5.0	6.5	6.0	0.5	0.0	5.0	4.0	8.0	5.0
7	11.5	10.0	6.5	5.5	6.0	5.0	1.0	0.5	5.5	4.0	9.0	6.0
8	11.5	9.5	6.5	5.5	5.5	5.0	1.0	0.5	4.5	3.5	9.0	5.5
9	11.5	9.5	7.5	6.0	5.5	5.0	1.5	0.5	4.5	3.0	9.5	6.0
10	11.5	9.5	7.5	6.5	5.5	5.0	1.5	0.5	4.5	1.5	8.5	6.5
11	11.0	9.5	7.0	6.5	5.5	5.0	1.0	0.5	4.0	3.0	10.0	7.5
12	11.0	9.5	7.0	6.5	5.5	4.5	1.0	0.5	4.5	3.0	9.0	7.0
13	11.0	9.5	6.5	6.0	5.5	4.5	2.5	1.0	5.0	2.0	9.5	6.5
14	10.5	8.5	6.5	5.0	4.5	4.0	2.0	0.0	4.5	2.0	10.0	6.0
15	8.5	7.0	6.5	5.5	4.5	4.0	2.0	0.0	5.5	3.0	9.5	6.0
16	7.0	6.5	6.0	4.5	5.0	4.5	2.0	0.0	6.5	3.0	11.0	6.5
17	8.5	7.0	6.0	4.5	5.0	4.0	2.5	0.0	6.5	2.5	11.5	7.0
18	8.0	7.5	6.0	5.5	4.5	4.0	4.0	2.0	5.5	2.5	11.0	7.5
19	8.5	8.0	6.0	4.5	4.5	4.0	4.0	3.0	7.0	4.0	9.5	6.0
20	8.5	7.5	6.0	5.0	5.0	4.5	3.5	2.5	7.0	5.0	9.5	6.0
21	8.5	7.5	6.5	5.0	5.5	4.5	3.0	2.0	6.5	5.0	10.5	6.5
22	8.5	8.0	6.5	5.0	5.0	1.5	4.5	3.0	5.0	3.0	9.0	6.0
23	8.0	7.0	7.0	6.0	1.5	1.0	4.0	1.5	4.5	3.0	9.0	4.5
24	8.0	6.5	7.0	5.0	1.5	1.0	2.0	0.5	5.0	4.0	7.5	5.5
25	8.0	6.5	6.5	6.0	1.0	0.5	1.5	0.5	6.0	4.0	8.5	6.0
26	8.5	7.0	6.5	6.0	1.5	0.5	2.0	0.5	7.5	5.0	7.5	3.5
27	8.5	6.5	7.0	6.0	2.0	0.5	1.0	0.0	7.0	5.5	7.5	2.5
28	6.5	4.0	6.0	5.0	2.0	0.5	2.5	1.0	6.5	5.5	7.0	3.5
29	7.0	3.5	6.5	5.0	2.0	0.5	2.0	1.0	5.5	3.0	8.5	4.5
30	5.0	4.0	6.5	5.5	2.5	0.5	1.5	0.5	---	---	8.5	4.5
31	6.5	3.5	---	---	1.5	0.0	2.0	1.0	---	---	7.5	5.5
MONTH	11.5	3.5	7.5	3.5	6.5	0.0	4.5	0.0	7.5	0.5	11.5	2.5

11401500 INDIAN CREEK NEAR CRESCENT MILLS, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	6.5	13.0	9.5	19.5	16.5	26.5	20.0	20.0	15.0	23.0	13.5
2	10.5	7.0	14.5	11.0	19.5	17.0	26.5	20.0	22.0	15.0	24.5	13.5
3	10.5	7.5	14.5	11.5	19.5	16.0	25.5	18.0	21.0	14.5	23.5	13.5
4	10.5	8.0	15.0	11.5	19.5	16.5	25.0	17.5	18.0	15.0	23.5	13.5
5	10.0	6.5	15.5	11.5	21.0	17.5	24.5	18.0	18.5	15.0	24.0	15.0
6	8.0	5.5	15.0	11.5	21.0	19.5	23.5	16.5	21.5	15.5	25.0	14.5
7	9.0	5.0	13.0	11.0	21.5	19.0	22.5	15.5	21.5	14.5	23.0	15.0
8	9.0	5.0	14.0	10.0	20.0	18.5	21.5	15.0	21.5	14.0	23.0	14.0
9	9.5	6.0	15.0	11.0	19.0	17.0	22.0	14.0	19.5	13.0	23.0	15.5
10	8.5	5.5	15.5	12.0	18.5	15.5	22.5	15.0	19.5	12.0	23.0	15.0
11	7.5	4.5	16.0	12.5	19.5	14.5	24.0	16.0	14.5	12.5	21.0	14.5
12	4.5	3.0	16.5	13.0	21.0	16.5	25.0	16.5	18.5	11.5	19.0	12.0
13	---	---	17.0	14.0	21.5	18.0	25.0	17.0	19.5	11.5	19.0	11.5
14	---	---	16.5	14.5	24.5	18.5	25.0	16.5	19.5	12.5	19.0	11.0
15	---	---	16.0	14.0	24.0	18.5	26.0	18.0	19.0	12.0	19.0	11.0
16	---	---	16.0	13.5	24.5	18.0	25.5	18.5	16.0	12.0	19.0	11.0
17	---	---	15.5	12.5	25.0	18.5	26.5	19.0	20.0	13.5	18.5	11.0
18	---	---	14.5	12.0	24.5	18.5	24.5	18.5	21.0	13.0	17.0	11.0
19	---	---	14.0	12.0	21.5	17.0	23.0	16.5	20.5	13.5	17.0	11.0
20	10.0	---	12.5	10.5	23.5	16.0	23.5	17.5	22.0	14.0	17.0	9.0
21	11.0	8.0	11.0	10.0	24.5	16.5	22.5	17.0	21.5	13.0	17.0	10.5
22	11.0	8.5	14.5	10.5	23.0	16.0	23.0	16.5	21.0	13.0	16.5	11.0
23	11.5	8.5	15.5	13.0	22.0	16.0	22.0	16.5	22.0	13.0	15.0	8.5
24	11.0	9.0	16.5	13.0	22.5	15.5	21.5	15.5	22.0	14.0	15.0	8.0
25	11.5	8.5	18.0	14.5	24.0	16.5	21.0	14.0	22.0	13.5	13.0	8.0
26	12.5	9.0	19.0	15.5	24.5	17.5	22.5	14.0	23.0	13.5	14.0	10.5
27	12.0	9.0	19.5	16.0	25.5	18.0	23.0	14.0	24.0	13.0	15.0	11.5
28	12.5	10.0	19.5	17.0	26.0	20.0	23.0	15.0	23.5	13.5	16.0	11.5
29	11.5	8.5	19.5	16.5	27.0	20.0	22.0	15.5	21.5	14.0	16.5	10.0
30	12.0	8.0	19.5	16.5	26.5	20.0	22.5	15.5	22.5	13.5	16.0	10.5
31	---	---	19.5	17.0	---	---	22.0	15.0	23.5	15.0	---	---
MONTH	---	---	19.5	9.5	27.0	14.5	26.5	14.0	24.0	11.5	25.0	8.0

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 mile downstream from Flea Valley Creek and Pulga, and 1.5 miles downstream from Poe Dam.

DRAINAGE AREA.--1,953 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1963 to June 1966, water year 1972 (partial-record station). Water temperatures: October 1962 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 24.0°C Aug. 8-11; minimum, 0.5°C Jan. 4.

Period of record:
Water temperatures: Maximum (1963-64, 1965-66, 1967-72), 24.0°C July 21, 22, 1971, Aug. 8-11, 1972; minimum (1963-65, 1966-72), 0.5°C Jan. 4, 1972.

REMARKS.--Clock stopped Nov. 29 to Dec. 20; range in temperature, 2.0°C to 6.0°C. No record Feb. 2-29.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	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)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
29...	0820	57	--	--	--	--	--	--	--	--	--	--
FEB.												
25...	1430	293	--	--	0	--	--	--	--	--	--	--
MAY												
15...	1600	48	16	40	--	6.8	4.1	2.1	.7	46	0	38
16...	0400	49	--	--	--	--	--	--	--	--	--	--
16...	1000	45	--	--	--	--	--	--	--	--	--	--
SEP.												
06...	0840	50	--	--	--	--	--	--	--	--	--	--

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 AMMONIA NITRO-GEN (N) (MG/L)	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 (SUM OF CONSTI-TUENTS) (MG/L)
OCT.											
29...	--	--	--	.07	.14	.15	.29	.36	.09	.06	--
FEB.											
25...	--	--	--	.04	.08	.28	.36	.40	.04	.00	--
MAY											
15...	1.8	.4	.0	.01	.01	.09	.10	.11	.02	.00	55
16...	--	--	--	.00	.04	.32	.36	.36	.03	.01	--
16...	--	--	--	.05	.05	.14	.19	.24	.03	.01	--
SEP.											
06...	--	--	--	.03	.05	.13	.18	.21	.02	.01	--

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)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.											
29...	--	--	--	--	--	--	--	--	7.0	1	--
FEB.											
25...	--	--	--	--	--	--	--	--	6.0	8	.00
MAY											
15...	.07	7.13	34	0	12	.2	72	7.1	16.5	--	--
16...	--	--	--	--	--	--	--	--	13.0	--	--
16...	--	--	--	--	--	--	--	--	13.5	--	--
SEP.											
06...	--	--	--	--	--	--	--	--	19.0	--	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.										
29...	0820	57	--	--	--	101	7.8	7.0	11.0	95
FEB.										
25...	1430	293	--	--	--	85	7.9	6.0	12.0	101
MAY										
15...	1600	48	44	0	36	74	8.2	16.5	10.4	111
16...	0400	49	44	0	36	--	7.7	13.0	9.4	93
16...	1000	45	46	0	38	--	8.0	13.5	10.1	101
SEP.										
06...	0840	50	64	0	52	104	7.7	19.0	8.4	94

11404500 NORTH FORK FEATHER RIVER AT PULGA, CALIF.--Continued

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (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 ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
FEB.												
25...	0	--	--	0	--	1	--	0	--	2.8	--	10
SEP.												
06...	--	0	0	--	1	--	1	--	.2	--	30	--

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	11.0	8.5	7.0	---	---	4.0	3.0	2.5	1.5	7.0	6.5
2	14.0	11.5	8.5	7.0	---	---	4.0	3.0	---	---	7.0	6.5
3	14.5	12.0	8.5	7.0	---	---	4.0	2.0	---	---	8.0	7.0
4	14.5	12.0	8.5	7.0	---	---	2.0	0.5	---	---	8.5	8.0
5	15.0	12.5	8.5	7.0	---	---	2.5	1.5	---	---	8.5	7.5
6	15.0	12.5	8.0	6.5	---	---	3.0	2.0	---	---	8.5	7.5
7	15.5	13.0	8.0	7.0	---	---	3.0	2.5	---	---	8.0	8.0
8	15.5	13.0	8.0	7.0	---	---	2.5	1.5	---	---	9.0	8.0
9	15.0	12.5	8.5	7.0	---	---	2.0	1.5	---	---	9.5	8.5
10	14.5	12.5	8.5	7.5	---	---	2.5	1.5	---	---	9.0	8.5
11	14.5	12.5	9.0	8.0	---	---	2.5	1.5	---	---	9.0	8.0
12	14.5	12.5	8.5	8.0	---	---	3.0	2.0	---	---	9.0	8.0
13	14.5	12.5	8.0	7.5	---	---	3.0	2.0	---	---	10.5	8.0
14	14.5	12.5	7.5	6.5	---	---	3.5	2.5	---	---	10.0	7.5
15	14.5	12.0	7.0	6.0	---	---	3.5	3.0	---	---	10.0	8.0
16	12.5	11.5	7.0	6.0	---	---	3.0	2.5	---	---	11.0	8.0
17	11.5	10.5	6.5	5.5	---	---	3.5	2.5	---	---	11.0	8.5
18	11.5	10.5	6.5	6.0	---	---	4.0	3.0	---	---	11.0	8.5
19	11.5	10.5	6.5	5.5	---	---	4.5	3.5	---	---	10.0	8.0
20	11.5	11.0	7.0	6.0	---	---	4.5	4.0	---	---	10.0	8.0
21	12.0	10.5	7.0	6.0	3.0	2.0	5.5	4.5	---	---	10.0	8.0
22	12.0	10.0	7.0	6.0	5.0	3.0	6.5	5.0	---	---	10.0	9.0
23	11.0	10.0	7.0	6.0	4.5	4.0	5.0	5.0	---	---	10.5	8.5
24	10.5	9.0	7.0	6.5	5.0	4.0	5.0	4.0	---	---	8.5	8.0
25	10.5	8.5	7.0	6.0	4.0	4.0	4.5	3.0	---	---	10.5	8.5
26	10.0	8.5	7.0	7.0	4.0	4.0	3.5	3.0	---	---	9.0	6.5
27	9.5	9.0	7.5	7.0	4.5	3.5	3.0	1.5	---	---	9.0	6.0
28	9.5	7.0	7.5	7.0	3.5	3.0	3.0	2.0	---	---	9.0	6.0
29	9.0	7.5	---	---	4.0	3.0	2.5	1.5	---	---	9.0	6.5
30	8.5	7.5	---	---	3.5	3.0	2.5	1.0	---	---	10.0	7.0
31	8.5	7.5	---	---	3.5	3.0	2.5	1.5	---	---	9.5	8.0
MONTH	15.5	7.0	9.0	5.5	---	---	6.5	0.5	---	---	11.0	6.0

11404500 NORTH FORK FEATHER RIVER AT PULGA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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 mile upstream from Griffin Gulch, and 4.0 miles northeast of Paradise.

DRAINAGE AREA.--110 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1962 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 28.5°C July 15; minimum, 1.0°C Jan. 4-6.

Period of record:
Water temperatures: Maximum (1962-63, 1964-70, 1971-72), 30.5°C Aug. 18, 1967; minimum, 1.0°C on several days in 1965 and 1972.

REMARKS.--No record Aug. 28 to Sept. 9 because of vandalism.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	11.5	6.5	6.0	6.5	5.0	2.5	2.0	2.0	2.0	5.5	4.5
2	13.0	12.0	6.5	5.0	6.5	5.0	2.5	2.0	2.0	2.0	6.0	5.5
3	13.0	12.5	9.0	6.5	5.0	5.0	2.0	1.5	2.5	2.0	6.5	6.0
4	13.5	13.0	9.0	7.0	5.5	5.0	2.0	1.0	3.5	2.5	7.5	6.5
5	14.0	13.5	9.5	7.0	6.0	5.0	2.5	1.0	4.5	3.5	7.5	6.5
6	14.5	14.0	9.0	7.0	6.0	4.0	2.0	1.0	4.5	4.5	7.0	6.5
7	15.0	14.0	8.5	7.0	4.0	3.0	3.5	1.5	5.0	3.5	7.5	7.0
8	15.0	14.5	8.5	7.0	5.0	3.5	3.5	1.5	5.0	4.0	7.5	7.5
9	15.0	14.5	9.0	7.5	5.0	4.5	4.0	1.5	5.0	3.5	8.0	7.5
10	15.0	14.5	9.5	8.5	5.0	4.0	4.0	2.0	5.0	3.5	8.0	7.5
11	15.0	14.5	10.0	9.5	5.0	4.5	4.0	2.0	5.0	4.0	7.5	7.0
12	15.0	14.5	9.5	9.0	5.0	4.0	4.0	2.5	5.5	4.5	7.5	7.5
13	14.5	14.0	9.0	7.5	4.5	4.0	4.0	2.0	6.0	4.5	8.0	7.5
14	14.0	13.5	7.5	6.5	4.5	3.5	3.0	2.0	5.5	5.0	8.0	7.0
15	13.5	12.5	7.5	5.5	4.5	3.5	3.0	2.0	6.0	4.5	8.0	7.5
16	12.5	9.5	7.5	5.5	4.5	3.5	3.0	2.0	6.0	5.0	8.5	8.0
17	9.0	8.0	7.0	5.0	4.5	3.5	3.5	2.5	6.0	4.5	8.5	8.0
18	8.5	7.5	7.5	5.5	4.0	3.0	4.0	3.5	6.0	4.5	8.5	8.0
19	9.0	8.5	7.0	5.5	4.0	2.5	4.5	4.0	7.5	6.0	8.0	7.5
20	9.5	9.0	8.0	6.0	4.5	3.0	4.5	4.5	7.5	7.0	7.5	7.0
21	10.0	9.5	7.5	7.0	4.0	3.5	4.5	4.5	7.0	6.5	8.0	7.5
22	10.0	9.5	7.5	6.5	4.0	2.0	5.0	4.5	6.5	5.5	8.0	7.0
23	10.0	10.0	7.5	6.0	2.5	2.0	4.0	4.0	5.5	5.0	6.5	6.0
24	10.0	9.5	7.5	7.0	3.5	2.5	4.0	3.0	5.5	5.0	6.5	6.0
25	9.5	9.0	8.0	6.5	2.5	2.0	3.0	2.5	5.5	5.5	6.5	6.5
26	9.5	9.0	8.0	7.5	2.5	2.0	2.5	2.5	7.0	5.5	6.5	5.0
27	9.5	9.0	7.5	7.0	2.5	2.5	2.5	1.5	7.0	6.5	5.5	5.0
28	9.0	7.5	7.5	7.5	2.5	2.0	1.5	1.5	7.0	6.5	6.0	5.0
29	7.5	6.5	7.5	6.5	2.0	2.0	2.0	1.5	6.5	5.5	6.5	6.0
30	7.0	6.5	6.5	5.5	2.0	1.5	2.0	2.0	---	---	7.0	6.5
31	7.0	6.5	---	---	2.0	1.5	2.0	2.0	---	---	7.0	7.0
MONTH	15.0	6.5	10.0	5.0	6.5	1.5	5.0	1.0	7.5	2.0	8.5	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	7.0	10.5	9.5	14.0	12.5	21.5	20.5	25.5	21.0	---	---
2	9.0	7.5	11.0	10.5	13.5	13.5	22.0	21.5	25.5	21.5	---	---
3	9.0	8.5	11.0	10.5	14.0	13.0	22.0	21.0	25.0	22.0	---	---
4	9.5	9.0	11.0	10.5	14.5	13.5	22.0	21.0	25.0	22.5	---	---
5	9.5	7.5	11.0	10.5	15.0	14.5	22.0	21.5	25.5	22.5	---	---
6	7.5	7.0	11.0	10.5	15.5	15.5	22.0	21.0	26.0	22.5	---	---
7	7.5	7.0	10.5	9.5	15.5	15.0	24.0	20.0	25.5	23.5	23.5	19.5
8	7.5	7.0	9.5	8.5	15.5	15.5	25.0	20.5	26.0	24.0	23.5	19.0
9	8.0	7.5	10.0	9.0	15.5	14.0	25.5	20.5	26.5	24.5	23.0	20.0
10	8.0	7.5	10.5	10.0	14.0	13.0	25.0	21.0	26.5	24.5	22.0	19.0
11	7.5	7.0	11.0	10.5	13.0	12.5	26.0	21.0	26.0	24.0	20.5	18.5
12	7.0	5.0	12.0	11.0	14.0	13.0	27.0	22.0	24.0	22.0	21.0	18.0
13	5.5	4.5	12.5	11.5	15.0	14.0	27.5	22.5	23.5	21.5	21.0	17.5
14	7.0	5.5	12.5	12.0	15.5	15.0	28.0	22.5	22.5	20.5	21.0	18.0
15	8.0	7.0	12.5	12.0	16.0	15.5	28.5	24.0	21.5	19.0	21.5	18.5
16	8.5	8.0	12.0	11.5	16.5	16.0	28.0	25.0	20.5	19.0	21.5	19.0
17	8.5	8.0	11.5	11.0	17.5	16.5	27.5	25.0	21.0	18.0	21.0	18.5
18	8.0	7.0	11.5	10.5	17.5	17.0	27.0	24.5	21.5	19.0	20.5	18.5
19	7.0	6.5	11.0	9.5	18.5	17.5	25.5	22.5	22.0	19.5	20.0	18.0
20	8.0	7.0	9.5	8.5	18.5	18.0	24.5	22.0	22.0	19.5	20.0	17.0
21	9.0	8.0	8.5	7.5	19.0	18.0	24.5	21.0	23.0	19.5	20.0	17.5
22	9.0	8.5	9.0	7.5	19.0	18.0	24.5	21.0	23.0	20.0	20.5	18.0
23	9.5	9.0	10.5	9.0	18.5	17.5	24.5	21.0	23.0	20.0	19.0	17.0
24	9.5	9.0	11.0	10.0	17.5	16.5	24.5	21.0	23.0	20.5	19.0	16.0
25	8.5	8.0	11.5	11.0	17.0	16.5	24.0	20.5	23.5	21.0	17.5	16.0
26	9.5	8.5	12.5	11.5	17.5	17.0	24.0	20.5	24.0	21.0	17.0	16.5
27	10.5	9.5	13.0	12.5	18.5	17.5	24.5	20.5	24.5	21.5	17.5	16.5
28	10.5	10.0	14.0	13.0	19.5	18.5	25.0	21.0	---	---	19.0	16.5
29	10.5	9.0	14.0	13.5	20.5	19.0	24.5	21.5	---	---	19.5	16.5
30	9.5	8.5	14.0	13.5	21.0	20.0	24.5	21.5	---	---	19.5	17.0
31	---	---	14.0	14.0	---	---	25.0	22.0	---	---	---	---
MONTH	10.5	4.5	14.0	7.5	21.0	12.5	28.5	20.0	26.5	18.0	23.5	16.0

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 downstream from centerline of Thermalito Afterbay Dam, and 5.7 miles southeast of Oroville.
PERIOD OF RECORD.--Water temperatures: May 1968 to September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 27.0°C July 13; minimum, 5.0°C Jan. 3-5.
Period of record:
Water temperatures: Maximum, 28.0°C July 13, 1970; minimum, 5.0°C Jan. 3-5, 1972.
REMARKS.--Recorder malfunction Mar. 1 to Apr. 4. 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 (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

11407000 FEATHER RIVER AT OROVILLE, CALIF.
(Irrigation network station)

LOCATION.--Lat 39°31'13", long 121°32'48", in SW¼NE¼ sec.8, T.19 N., R.4 E., Butte County, at gaging station on right bank, 300 ft upstream from fish barrier dam on Feather River, and 0.8 mile northeast of Oroville Post Office.

DRAINAGE AREA.--3,624 sq mi.

PERIOD OF RECORD.--Chemical analyses: January to December 1906, water years 1951-53 (partial-record station), October 1953 to September 1972.
Specific conductance: March to September 1972.
Water temperatures: October 1953 to September 1954, November 1956 to September 1972.
Sediment records: November 1956 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 17.0°C on several days during June to August; minimum, 6.5°C on several days during January and February.
Sediment concentrations: Maximum daily, 10 mg/l Nov. 5; minimum daily, 1 mg/l on many days.
Sediment loads: Maximum daily, 39 tons Apr. 27; minimum daily, 0.60 ton Sept. 19.

Period of record:
Water temperatures: Maximum (1956-67, 1968-72), 27.0°C Sept. 10, 12, 1959; minimum (1956-67, 1969-72), 1.5°C Dec. 27, 1959, Jan. 23-25, 1962.
Sediment concentrations (1956-72): Maximum daily, 4,100 mg/l Feb. 1, 1963; minimum daily, 1 mg/l on many days in 1961-62, 1964, 1968-72.
Sediment loads (1956-72): Maximum daily, 1,500,000 tons Feb. 1, 1963; minimum daily, 0.60 ton 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 miles downstream from gaging station. Records of discharge and temperature data furnished by California Department of Water Resources and reviewed by Geological Survey.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
OCT.										
28...	1545	412	13	20	--	8.5	3.0	3.4	1.0	51
FEB.										
24...	0910	411	--	--	--	8.9	3.8	3.5	1.0	52
MAR.										
30...	1200	405	--	--	--	9.1	3.7	3.4	.9	48
APR.										
18...	1200	397	13	20	--	8.4	3.4	3.5	1.0	46
MAY										
23...	1550	394	--	--	--	7.8	3.2	3.4	.7	50
JUNE										
23...	1235	418	--	--	--	8.4	3.2	3.5	.8	46
JULY										
28...	0845	403	--	--	--	8.6	3.4	3.1	.9	48
SEP.										
06...	1655	409	13	10	0	9.2	3.4	3.7	.8	54

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 NITRITE PLUS NITRATE (N) (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)
OCT.										
28...	0	42	3.3	.6	.0	.02	--	76	58	.10
FEB.										
24...	0	43	3.8	.0	.0	.13	.02	68	--	.09
MAR.										
30...	0	39	2.6	1.2	.1	.25	.00	60	--	.11
APR.										
18...	0	38	3.2	1.6	.1	.08	--	74	57	.10
MAY										
23...	0	41	3.1	.7	.0	.04	.01	68	--	.09
JUNE										
23...	0	38	4.5	2.0	.0	.06	.00	62	--	.08
JULY										
28...	0	39	5.1	3.0	.0	.31	.00	76	--	.10
SEP.										
06...	0	44	3.3	1.5	.1	.08	--	--	62	--

11407000 FEATHER RIVER AT OROVILLE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	11.0	8.5	8.5	7.0	6.5	7.0	7.0
2	12.0	12.0	11.5	11.0	11.0	10.0	8.5	8.5	7.0	7.0	8.0	7.0
3	13.0	12.0	11.5	11.5	10.5	10.0	8.5	8.0	7.0	7.0	8.0	8.0
4	13.0	11.5	11.5	11.0	10.5	10.5	8.0	7.0	7.0	7.0	8.0	8.0
5	11.5	11.0	11.5	11.0	10.5	10.0	8.0	8.0	7.0	7.0	8.5	8.0
6	13.0	11.0	11.5	11.0	10.0	10.0	8.0	8.0	7.0	7.0	8.5	8.0
7	13.0	12.0	11.5	11.0	10.0	10.0	8.0	8.0	7.0	6.5	9.5	8.0
8	12.0	11.0	11.5	11.5	10.0	10.0	8.0	8.0	7.0	7.0	9.0	8.5
9	12.0	11.5	11.5	11.0	10.0	10.0	8.0	8.0	7.0	7.0	8.5	8.5
10	12.0	11.5	11.0	11.0	10.0	10.0	8.0	7.0	7.0	7.0	9.0	8.5
11	12.0	11.0	11.0	11.0	10.0	9.5	7.0	7.0	7.0	7.0	9.0	8.5
12	12.0	11.5	11.0	10.5	9.5	9.5	7.0	7.0	7.0	7.0	8.5	8.5
13	12.0	12.0	11.0	10.5	9.5	8.5	7.0	7.0	8.0	7.0	9.0	8.0
14	13.0	12.0	11.0	10.5	9.5	9.5	7.0	7.0	8.0	7.0	9.5	8.5
15	12.0	12.0	11.0	10.5	9.5	9.5	7.0	7.0	7.0	7.0	9.0	8.5
16	12.0	11.5	11.0	10.5	9.5	9.0	7.0	7.0	7.0	7.0	10.0	8.5
17	11.5	11.5	11.0	11.0	9.0	9.0	7.0	7.0	8.0	7.0	10.5	9.5
18	11.5	11.5	11.0	11.0	9.0	9.0	7.0	7.0	8.0	8.0	10.5	10.0
19	11.5	11.5	11.5	11.0	9.0	9.0	7.0	7.0	8.0	8.0	10.0	10.0
20	12.0	11.5	11.0	11.0	9.0	8.5	7.0	7.0	8.0	8.0	10.5	9.5
21	12.0	12.0	11.0	10.5	9.0	9.0	7.0	7.0	8.5	8.0	10.5	9.5
22	12.0	12.0	10.5	10.0	9.0	8.0	7.0	7.0	8.5	8.0	10.0	9.5
23	12.0	12.0	10.5	10.5	8.5	8.0	7.0	7.0	8.0	6.5	10.0	8.5
24	12.0	12.0	10.5	10.5	8.5	8.5	7.0	7.0	6.5	6.5	9.5	9.0
25	12.0	12.0	10.5	10.5	8.5	8.5	7.0	7.0	6.5	6.5	10.0	9.5
26	12.0	11.5	10.5	10.5	8.5	8.5	7.0	7.0	7.0	6.5	10.0	10.0
27	12.0	12.0	10.5	10.5	8.5	8.5	7.0	7.0	8.0	7.0	10.0	9.5
28	12.0	11.5	10.5	10.0	8.5	8.5	7.0	7.0	8.0	8.0	10.0	9.5
29	12.0	11.5	10.5	10.0	8.5	8.5	7.0	7.0	8.0	7.0	10.0	9.5
30	12.0	11.5	11.0	10.5	8.5	8.5	7.0	7.0	---	---	10.0	9.5
31	11.5	11.5	---	---	8.5	8.5	7.0	6.5	---	---	10.0	9.5
MONTH	13.0	11.0	11.5	10.0	11.0	8.0	8.5	6.5	8.5	6.5	10.5	7.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	10.0	12.0	11.5	13.0	13.0	17.0	16.5	17.0	16.0	13.5	11.5
2	10.0	9.5	11.5	11.0	13.0	13.0	16.5	16.0	17.0	16.0	13.5	13.0
3	10.5	9.5	12.0	11.0	13.5	13.0	16.5	15.5	17.0	16.0	13.5	13.0
4	10.5	9.5	12.0	11.5	13.5	13.5	16.0	15.5	17.0	16.0	13.5	13.5
5	10.5	9.5	12.0	11.5	13.5	13.0	16.5	16.0	16.5	16.0	14.0	12.0
6	10.0	9.5	11.5	11.5	14.0	13.0	16.0	16.0	16.5	16.5	14.0	13.5
7	10.0	9.0	11.5	11.5	14.0	13.0	16.0	16.0	16.5	15.5	13.5	12.0
8	10.0	9.5	11.5	10.5	14.0	13.0	16.5	16.0	16.0	15.0	13.0	11.0
9	10.5	9.5	12.0	11.5	13.5	13.0	16.5	16.0	16.5	15.5	13.0	13.0
10	10.5	9.5	12.0	11.5	13.5	13.0	16.5	14.5	16.5	15.0	13.5	13.0
11	10.5	10.0	12.0	11.5	14.0	13.0	14.5	14.0	16.0	15.5	13.0	10.5
12	10.0	10.0	12.0	12.0	14.5	13.0	14.5	13.5	17.0	16.0	10.5	10.0
13	10.0	9.0	12.0	12.0	14.5	13.5	14.0	13.5	17.0	17.0	11.0	10.0
14	10.0	9.0	13.0	12.0	14.5	13.5	14.5	13.5	17.0	15.0	11.0	10.0
15	11.0	9.5	13.5	12.0	14.5	14.0	15.0	14.5	15.0	13.5	11.0	10.0
16	11.0	10.5	13.0	12.0	15.0	14.0	14.5	14.0	14.5	13.5	10.5	10.5
17	11.0	10.0	13.0	11.5	15.0	15.0	14.5	13.5	15.0	14.5	11.0	10.5
18	11.0	10.5	13.0	12.0	15.5	15.0	15.0	14.5	15.0	14.5	10.5	10.0
19	11.5	11.0	13.0	11.5	15.5	14.5	15.0	14.5	15.0	14.5	10.5	10.0
20	11.5	11.0	12.0	11.5	15.5	15.0	15.5	14.0	15.0	14.5	11.0	10.0
21	11.5	10.5	12.0	12.0	16.0	15.5	15.5	14.5	15.5	15.0	10.5	10.0
22	11.5	10.5	12.0	11.5	16.0	15.0	16.0	15.5	15.5	15.0	11.0	10.0
23	11.5	10.5	12.0	11.5	15.5	14.5	16.0	14.5	15.5	15.0	11.0	10.5
24	11.5	10.0	13.0	11.5	15.5	15.0	15.0	14.0	15.5	15.0	11.5	10.5
25	10.5	10.0	13.0	12.0	15.5	14.5	15.5	14.5	16.0	15.0	11.0	10.0
26	11.5	10.5	13.0	11.5	16.0	15.0	16.0	15.0	16.0	16.0	11.5	10.5
27	11.5	11.0	13.0	12.0	16.0	15.5	16.5	15.0	16.0	16.0	12.0	11.0
28	11.5	10.5	13.0	12.0	16.0	15.5	16.5	16.0	16.0	15.0	11.5	11.0
29	11.0	11.0	13.0	12.0	16.5	16.0	16.5	16.0	16.0	15.5	11.5	11.5
30	11.5	11.0	13.5	12.0	17.0	16.0	16.5	16.0	16.0	13.5	12.0	11.5
31	---	---	13.5	13.0	---	---	16.5	15.5	13.5	11.5	---	---
MONTH	11.5	9.0	13.5	10.5	17.0	13.0	17.0	13.5	17.0	11.5	14.0	10.0

11407000 FEATHER RIVER AT OROVILLE, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
OCT.									
28...	84.5	34	0	18	.3	82	8.1	11.5	30
FEB.									
24...	75.5	38	0	16	.2	89	7.6	7.5	--
MAR.									
30...	87.5	38	0	16	.2	85	7.0	24.0	--
APR.									
18...	79.3	35	0	17	.3	81	7.7	22.0	50
MAY									
23...	72.3	33	0	18	.3	80	7.2	16.0	--
JUNE									
23...	70.0	34	0	18	.3	81	8.2	15.5	--
JULY									
28...	82.7	35	0	16	.2	86	7.4	17.0	--
SEP.									
06...	--	37	0	18	.3	89	7.6	16.5	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25°C), MARCH TO SEPTEMBER 1972

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	83	---	---	80	85	86
2	---	---	---	---	---	85	83	78	80	---	86	86
3	---	---	---	---	---	87	83	79	81	80	86	86
4	---	---	---	---	---	88	83	79	81	81	88	89
5	---	---	---	---	---	86	78	80	81	81	87	86
6	---	---	---	---	---	86	80	78	81	---	87	90
7	---	---	---	---	---	85	81	78	81	---	84	---
8	---	---	---	---	---	81	81	77	---	81	84	---
9	---	---	---	---	---	83	81	78	80	---	85	---
10	---	---	---	---	---	84	78	79	80	81	---	87
11	---	---	---	---	---	84	78	79	80	---	85	87
12	---	---	---	---	---	85	80	79	81	81	85	86
13	---	---	---	---	---	84	80	80	---	80	---	---
14	---	---	---	---	---	83	80	80	80	---	85	87
15	---	---	---	---	---	84	79	79	80	80	89	88
16	---	---	---	---	---	88	81	79	80	81	89	86
17	---	---	---	---	---	85	79	78	81	81	89	87
18	---	---	---	---	---	85	80	79	80	81	85	87
19	---	---	---	---	---	85	80	78	79	81	88	89
20	---	---	---	---	---	85	81	79	79	---	86	88
21	---	---	---	---	---	81	81	79	---	80	85	85
22	---	---	---	---	---	82	78	81	---	80	85	---
23	---	---	---	---	---	84	79	---	79	80	87	87
24	---	---	---	---	---	84	79	79	---	83	87	87
25	---	---	---	---	---	84	81	---	---	81	87	90
26	---	---	---	---	---	84	81	---	80	80	---	---
27	---	---	---	---	---	---	81	80	---	80	87	91
28	---	---	---	---	---	82	80	---	---	80	86	86
29	---	---	---	---	---	84	82	---	80	80	86	86
30	---	---	---	---	---	84	80	79	---	80	86	82
31	---	---	---	---	---	83	---	79	---	---	86	---
MONTH	---	---	---	---	---	84	80	79	---	---	86	87

11407000 FEATHER RIVER AT OROVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	398	2	2.1	402	4	4.3	424	1	1.1
2	403	2	2.2	402	3	3.3	416	1	1.1
3	393	2	2.1	408	3	3.3	416	2	2.2
4	394	2	2.1	405	7	7.7	410	3	3.3
5	393	2	2.1	408	10	11	411	2	2.2
6	396	3	3.2	409	9	9.9	411	2	2.2
7	393	3	3.2	408	9	9.9	411	2	2.2
8	396	3	3.2	409	8	8.8	413	2	2.2
9	410	2	2.2	407	7	7.7	413	4	4.5
10	404	2	2.2	409	6	6.6	414	2	2.2
11	403	3	3.3	411	5	5.5	410	2	2.2
12	407	2	2.2	413	5	5.6	409	3	3.3
13	410	1	1.1	413	4	4.5	416	4	4.5
14	412	1	1.1	411	4	4.4	417	3	3.4
15	414	1	1.1	407	3	3.3	418	3	3.4
16	412	1	1.1	408	3	3.3	418	4	4.5
17	411	2	2.2	410	2	2.2	417	2	2.3
18	411	2	2.2	407	2	2.2	414	4	4.5
19	411	2	2.2	407	2	2.2	413	3	3.3
20	408	2	2.2	404	1	1.1	411	4	4.4
21	409	2	2.2	403	1	1.1	413	4	4.5
22	408	2	2.2	406	1	1.1	411	3	3.3
23	414	2	2.2	407	2	2.2	406	4	4.4
24	415	2	2.2	412	2	2.2	407	4	4.4
25	408	2	2.2	408	2	2.2	415	4	4.5
26	409	2	2.2	413	2	2.2	413	2	2.2
27	405	3	3.3	413	2	2.2	417	1	1.1
28	405	4	4.4	413	1	1.1	416	5	5.6
29	403	4	4.4	413	1	1.1	417	6	6.8
30	404	4	4.4	421	2	2.3	420	3	3.4
31	404	4	4.4	--	--	--	410	3	3.3
TOTAL	12563	--	77.4	12267	--	124.5	12827	--	102.5

	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	413	3	3.3	408	4	4.4	400	2	2.2
2	411	3	3.3	402	4	4.3	403	2	2.2
3	403	2	2.2	403	3	3.3	404	2	2.2
4	409	3	3.3	409	3	3.3	408	3	3.3
5	415	4	4.5	414	4	4.5	405	4	4.4
6	410	3	3.3	411	3	3.3	405	3	3.3
7	409	2	2.2	416	4	4.5	406	3	3.3
8	406	3	3.3	417	4	4.5	405	2	2.2
9	405	4	4.4	414	4	4.5	407	3	3.3
10	404	4	4.4	417	4	4.5	411	3	3.3
11	405	5	5.5	417	4	4.5	405	2	2.2
12	405	4	4.4	414	3	3.4	398	2	2.1
13	402	3	3.3	411	4	4.4	401	2	2.2
14	408	4	4.4	412	4	4.4	406	2	2.2
15	410	4	4.4	1180	3	9.6	402	2	2.2
16	409	3	3.3	404	4	4.4	401	2	2.2
17	408	4	4.4	401	2	2.2	401	1	1.1
18	409	5	5.5	400	2	2.2	405	2	2.2
19	415	5	5.6	400	2	2.2	405	2	2.2
20	417	5	5.6	399	2	2.2	403	2	2.2
21	416	4	4.5	400	2	2.2	406	2	2.2
22	411	4	4.4	403	3	3.3	409	2	2.2
23	411	4	4.4	410	3	3.3	411	2	2.2
24	414	4	4.5	412	2	2.2	414	2	2.2
25	418	4	4.5	411	3	3.3	410	2	2.2
26	418	4	4.5	406	4	4.4	413	2	2.2
27	421	4	4.5	409	4	4.4	411	2	2.2
28	420	3	3.4	409	3	3.3	411	2	2.2
29	421	3	3.4	414	2	2.2	413	1	1.1
30	412	3	3.3	--	--	--	408	1	1.1
31	410	3	3.3	--	--	--	412	2	2.2
TOTAL	12745	--	125.3	12623	--	109.2	12599	--	72.5

11407000 FEATHER RIVER AT OROVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	413	2	2.2	400	2	2.2	402	2	2.2
2	415	3	3.4	405	3	3.3	403	3	3.3
3	413	2	2.2	401	4	4.3	401	3	3.2
4	412	2	2.2	404	3	3.3	400	3	3.2
5	407	2	2.2	409	4	4.4	405	3	3.3
6	407	2	2.2	407	2	2.2	405	3	3.3
7	409	2	2.2	403	2	2.2	406	2	2.2
8	406	1	1.1	407	4	4.4	406	2	2.2
9	404	1	1.1	402	3	3.3	408	2	2.2
10	400	2	2.2	402	3	3.3	410	3	3.3
11	512	2	2.8	404	4	4.4	406	3	3.3
12	406	2	2.2	401	2	2.2	414	2	2.2
13	406	1	1.1	401	1	1.1	412	2	2.2
14	404	1	1.1	401	2	2.2	410	1	1.1
15	400	2	2.2	398	2	2.1	413	1	1.1
16	396	4	4.3	405	2	2.2	409	1	1.1
17	397	3	3.2	407	2	2.2	404	1	1.1
18	399	2	2.2	404	3	3.3	407	1	1.1
19	530	4	5.7	403	2	2.2	413	1	1.1
20	392	3	3.2	407	2	2.2	411	1	1.1
21	400	2	2.2	404	3	3.3	410	2	2.2
22	409	3	3.3	404	5	5.5	410	2	2.2
23	407	2	2.2	397	3	3.2	408	2	2.2
24	414	2	2.2	399	4	4.3	410	3	3.3
25	414	2	2.2	394	5	5.3	407	4	4.4
26	410	3	3.3	408	5	5.5	411	4	4.4
27	2050	7	39	404	4	4.4	412	4	4.4
28	709	5	9.6	405	4	4.4	409	4	4.4
29	401	6	6.5	402	3	3.3	412	5	5.6
30	402	5	5.4	405	3	3.3	406	5	5.5
31	--	--	--	397	2	2.1	--	--	--
TOTAL	14344	--	124.9	12490	--	101.6	12240	--	82.4

	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	402	4	4.3	415	2	2.2	406	2	2.2
2	404	3	3.3	409	2	2.2	402	2	2.2
3	413	2	2.2	412	2	2.2	404	2	2.2
4	408	2	2.2	411	2	2.2	403	2	2.2
5	410	2	2.2	406	2	2.2	409	2	2.2
6	412	2	2.2	405	2	2.2	413	2	2.2
7	408	1	1.1	409	2	2.2	414	2	2.2
8	405	1	1.1	408	2	2.2	411	3	3.3
9	398	1	1.1	412	2	2.2	406	3	3.3
10	407	2	2.2	413	2	2.2	407	2	2.2
11	411	2	2.2	412	2	2.2	396	2	2.1
12	413	2	2.2	412	2	2.2	312	2	1.7
13	409	3	3.3	409	2	2.2	288	2	1.6
14	410	3	3.3	411	2	2.2	295	2	1.6
15	405	3	3.3	410	2	2.2	340	2	1.8
16	403	3	3.3	407	2	2.2	444	2	2.4
17	405	4	4.4	408	2	2.2	434	1	1.2
18	415	4	4.5	406	2	2.2	335	1	.90
19	415	3	3.4	401	3	3.2	222	1	.60
20	415	2	2.2	403	4	4.4	353	1	.95
21	407	2	2.2	406	4	4.4	435	2	2.3
22	405	2	2.2	406	3	3.3	349	2	1.9
23	405	2	2.2	409	2	2.2	372	2	2.0
24	406	2	2.2	407	2	2.2	434	3	3.5
25	403	2	2.2	413	3	3.3	430	3	3.5
26	406	2	2.2	405	4	4.4	433	2	2.3
27	406	2	2.2	403	3	3.3	425	2	2.3
28	404	1	1.1	405	3	3.3	433	1	1.2
29	406	2	2.2	409	3	3.3	429	1	1.2
30	405	2	2.2	410	3	3.3	428	1	1.2
31	411	2	2.2	409	2	2.2	--	--	--
TOTAL	12632	--	77.1	12661	--	82.4	11662	--	60.45

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 151653
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 1140.25

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.

LOCATION.--Lat 39°22'00", long 121°38'46", in SW¼ sec.33, T.18 N., R.3 E., Butte County, at gaging station on right bank, 300 ft upstream from highway bridge, and 2.7 miles east of Gridley.

DRAINAGE AREA.--3,676 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1964 to September 1971.
Sediment records: October 1964 to September 1972.

EXTREMES, 1971-72:
Sediment concentrations: Maximum daily, 34 mg/l Feb. 8; minimum daily, 1 mg/l Dec. 14.
Sediment discharge: Maximum daily, 701 tons Feb. 9; minimum daily, 14 tons Dec. 14.

Period of record:
Water temperatures (1964-69, 1970-71): 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 Dec. 23, 1964; minimum daily, 1.4 tons Oct. 27, 1966.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	3020	8	65	2870	4	31	5260	4	57
2	2980	8	64	2920	4	32	5180	4	56
3	2950	7	56	2940	4	32	5180	4	56
4	2990	6	48	2940	4	32	5070	3	41
5	2990	5	40	2930	4	32	5050	4	55
6	2980	4	32	2890	4	31	5140	5	69
7	2960	4	32	2820	5	38	5180	5	70
8	2950	5	40	2860	6	46	5170	5	70
9	2910	5	39	2930	5	40	5200	4	56
10	2890	5	39	2920	4	32	5200	4	56
11	2920	6	47	2950	4	32	5110	3	41
12	2950	6	48	2960	4	32	5100	3	41
13	2940	6	48	2940	5	40	5100	2	28
14	2930	6	47	2850	5	38	5130	1	14
15	2930	9	71	2870	5	39	5130	2	28
16	2910	12	94	3260	4	35	5130	3	42
17	2880	10	78	3800	4	41	5140	3	42
18	2930	8	63	4410	4	48	5060	3	41
19	2940	7	56	4820	5	65	5020	3	41
20	2930	6	47	5010	5	68	5080	3	41
21	2960	7	56	4990	4	54	5130	4	55
22	2980	9	72	5140	2	28	5240	4	57
23	2960	22	176	5220	4	56	5180	4	56
24	2880	14	109	5260	4	57	5170	4	56
25	2870	8	62	5160	5	70	5120	5	69
26	2920	10	79	5220	5	70	5020	5	68
27	2950	11	88	5190	5	70	5040	4	54
28	2930	10	79	5220	4	56	5140	3	42
29	2920	9	71	5260	4	57	5090	3	41
30	2900	7	55	5270	4	57	5100	11	151
31	2830	4	31	--	--	--	5050	14	191
TOTAL	90980	--	1932	116820	--	1359	158910	--	1785

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	4530	14	171	6610	26	464	6620	4	71
2	3600	13	126	5720	8	124	3960	4	43
3	3150	12	102	3420	5	46	2400	5	32
4	3150	11	94	2680	3	22	2140	6	35
5	3100	11	92	2610	4	28	1950	5	26
6	3070	10	83	2550	4	28	1780	4	19
7	3070	10	83	2530	10	68	1730	5	23
8	3040	11	90	6080	34	558	1700	6	28
9	3020	12	98	11800	22	701	1710	5	23
10	3040	10	82	9950	10	269	1730	5	23
11	2920	8	63	2680	7	51	1710	6	28
12	2640	8	57	2590	4	28	1680	6	27
13	2620	8	57	2540	3	21	1670	7	32
14	2610	8	56	2560	3	21	1660	7	31
15	2560	8	55	2260	4	24	1950	8	42
16	2570	8	56	2540	4	27	2760	5	37
17	2580	8	56	2500	4	27	2500	5	34
18	2490	8	54	2490	4	27	2190	6	35
19	2610	8	56	2480	4	27	1990	6	32
20	2630	8	57	2440	4	26	1860	6	30
21	2650	8	57	2450	5	33	1840	7	35
22	2640	8	57	2720	6	44	1840	10	50
23	2590	8	56	4300	7	81	2190	11	65
24	2580	7	49	6380	6	103	2890	12	94
25	2630	6	43	6480	4	70	2770	12	90
26	2640	5	36	6650	5	90	2700	11	80
27	3010	5	41	7300	5	99	2750	11	82
28	3570	5	48	7400	4	80	2810	10	76
29	3530	8	76	7410	4	80	2790	9	68
30	3530	15	143	--	--	--	2150	8	46
31	4580	24	297	--	--	--	1640	9	40
TOTAL	92950	--	2491	130120	--	3267	72060	--	1377

	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	1270	10	34	3250	12	105	2290	9	56
2	1030	10	28	2830	12	92	2830	11	84
3	1010	9	25	2280	12	74	3460	17	159
4	993	9	24	2130	12	69	3340	11	99
5	998	8	22	3060	13	107	3370	11	100
6	996	8	22	3220	13	113	3380	11	100
7	975	8	21	3230	12	105	3390	11	101
8	1010	8	22	3030	8	65	3420	11	102
9	1020	8	22	2250	5	30	3450	10	93
10	1040	8	22	2000	5	27	3360	9	82
11	1110	8	24	1700	6	28	3290	10	89
12	1110	9	27	1690	6	27	3360	11	100
13	1100	10	30	1660	6	27	3380	10	91
14	1120	10	30	1630	8	35	3400	10	92
15	1170	10	32	1650	10	45	3380	11	100
16	1230	13	43	1590	18	77	3390	11	101
17	1270	15	51	1390	23	86	3440	13	121
18	1290	13	45	1370	16	59	3360	16	145
19	1300	11	39	1350	9	33	3810	15	154
20	1300	11	39	1360	7	26	3150	14	119
21	1290	12	42	1340	7	25	2860	12	93
22	2060	13	72	1350	7	26	3340	12	108
23	2170	14	82	1410	7	27	3450	13	121
24	2190	14	83	1420	7	27	3370	13	118
25	2200	14	83	1430	7	27	3310	10	89
26	2210	10	60	1400	7	26	3400	8	73
27	2210	8	48	1400	7	26	3880	7	73
28	2330	16	101	1360	7	26	4010	7	76
29	3190	18	155	1340	7	25	4090	7	77
30	3220	16	139	1410	7	27	4130	7	78
31	--	--	--	1840	8	40	--	--	--
TOTAL	45412	--	1467	58370	--	1532	102090	--	2994

11407150 FEATHER RIVER NEAR GRIDLEY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	4130	7	78	3770	5	51	3660	3	30
2	4080	6	66	3910	5	53	3610	3	29
3	3950	7	75	3650	6	59	3570	4	39
4	3100	9	75	2730	7	52	3550	5	48
5	3010	10	81	2610	7	49	3630	4	39
6	3040	10	82	2550	8	55	3670	4	40
7	3040	9	74	3060	9	74	3620	3	29
8	3010	8	65	3490	9	85	3620	3	29
9	2950	9	72	4420	8	95	3570	4	39
10	3020	10	82	4510	7	85	3540	4	38
11	3110	9	76	4520	6	73	3620	3	29
12	2550	8	55	4460	5	60	3640	3	29
13	2440	8	53	4390	5	59	3650	3	30
14	2450	8	53	4480	5	60	3660	4	40
15	2460	8	53	4510	5	61	3640	3	29
16	2420	8	52	4460	8	96	3140	2	17
17	2480	8	54	4430	9	108	3000	2	16
18	2560	9	62	4430	9	108	3000	2	16
19	2590	10	70	4350	9	106	2990	3	24
20	2830	10	76	4280	7	81	3020	4	33
21	3820	8	83	4330	5	58	3060	5	41
22	3930	6	64	4340	5	59	3020	5	41
23	3900	5	53	4310	4	47	3020	4	33
24	3950	5	53	4060	4	44	3080	3	25
25	4000	5	54	3700	3	30	3100	3	25
26	3600	5	49	3640	4	39	3150	3	26
27	3240	5	44	3590	5	48	3220	3	26
28	3210	5	43	3680	4	40	3190	3	26
29	3190	5	43	3700	4	40	3160	4	34
30	3160	6	51	3690	4	40	3140	4	34
31	3210	6	52	3670	4	40	--	--	--
TOTAL	98430	--	1943	121720	--	1955	100540	--	934

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1188402
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 23036

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
MAY									
19...	1330	17.0	1340	6	22	95	95	97	100
JUNE									
26...	1050	19.5	3350	10	90	100	--	--	--
AUG.									
09...	1000	23.0	4400	8	95	85	97	100	--
SEP.									
27...	1200	15.0	3230	4	35	94	100	--	--

11407700 FEATHER RIVER AT YUBA CITY, CALIF.

LOCATION.--Lat 39°08'20", long 121°36'17", in NE¼ sec.23, T.15 N., R.3 E., Yuba County, at gaging station on left bank, at 5th Street railroad bridge in Yuba City, 0.7 mile upstream from confluence with Yuba River, and at mile 28.0 upstream from mouth.

DRAINAGE AREA.--3,974 sq mi.

PERIOD OF RECORD.--Water temperatures: July 1964 to September 1972.
Sediment records: October 1964 to September 1972.

EXTREMES, 1971-72:
Sediment concentrations: Maximum daily, 337 mg/l Feb. 9; minimum daily, 9 mg/l Jan. 19.
Sediment discharge: Maximum daily, 9,550 tons Feb. 9; minimum daily, 57 tons Apr. 10.

Period of record:
Water temperatures (1964-67): Maximum, 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 Dec. 24, 1964; minimum daily, 12 tons Oct. 27, 1966.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	11.5	9.0	---	7.0	11.5	---	19.0	24.5	25.0	22.0	24.0
2	---	---	11.0	---	7.0	12.0	---	20.5	---	---	---	---
3	---	13.0	9.0	7.0	7.0	13.5	17.0	---	21.5	23.0	23.0	---
4	18.0	---	---	7.5	8.5	13.5	19.0	17.5	---	---	---	---
5	---	13.0	---	6.0	---	---	17.0	---	26.0	23.0	---	21.0
6	19.5	---	9.5	7.0	---	16.0	16.0	---	---	---	27.0	---
7	---	---	8.5	8.0	9.5	17.5	16.5	---	24.0	24.0	---	21.0
8	20.0	13.0	8.0	---	9.5	17.0	---	---	---	---	24.0	---
9	---	---	8.0	---	9.5	16.5	---	19.0	---	---	24.0	21.0
10	---	12.5	7.5	7.0	8.5	17.0	16.0	---	19.0	26.0	24.0	---
11	17.0	---	7.5	7.0	8.5	---	15.5	21.0	---	---	---	18.0
12	---	12.0	---	7.0	9.5	---	14.0	---	22.0	---	23.0	---
13	17.0	---	7.5	7.0	---	17.0	15.0	21.0	---	---	---	18.0
14	---	---	7.5	7.5	11.0	18.0	17.0	---	23.0	25.0	21.0	---
15	16.0	11.5	7.0	---	11.0	19.0	---	---	---	---	---	18.0
16	---	---	7.0	---	12.0	19.0	---	20.0	---	---	19.0	---
17	---	10.5	7.5	7.0	12.0	19.0	16.0	---	23.0	25.0	---	---
18	13.0	---	---	7.5	12.0	---	16.0	21.5	---	---	19.0	17.0
19	---	9.5	---	8.0	11.0	---	17.0	17.5	---	22.0	---	---
20	14.0	---	9.0	9.0	---	18.0	18.0	16.0	---	---	22.0	16.0
21	---	---	8.0	9.0	---	18.0	18.0	---	---	21.0	---	---
22	14.0	12.0	9.0	---	12.5	16.0	---	19.5	21.0	---	21.0	18.0
23	---	10.0	8.5	---	11.0	17.0	---	---	---	---	---	---
24	---	11.0	9.5	9.0	12.0	15.5	17.5	---	20.0	21.0	21.0	---
25	14.0	---	---	8.5	11.0	14.0	18.5	21.0	---	---	---	17.0
26	---	11.0	---	8.5	11.0	---	19.5	---	21.0	21.0	23.0	---
27	14.0	---	9.5	8.0	---	14.0	---	22.0	---	---	---	17.0
28	---	---	8.5	8.0	12.0	14.0	18.5	---	---	22.0	22.0	---
29	11.0	11.0	8.0	6.5	12.0	14.0	---	---	24.5	---	---	17.0
30	---	11.0	8.0	---	---	15.5	---	26.0	---	---	23.0	---
31	---	---	9.0	7.0	---	15.0	---	---	---	---	---	---
MONTH	---	---	---	---	10.0	16.0	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	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.									
30...	1140	7.0	5620	32	486	54	63	72	100
MAY									
19...	1100	17.5	1620	25	109	100	--	--	--

11407700 FEATHER RIVER AT YUBA CITY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	3370	24	218	3030	13	106	5340	34	490
2	3350	19	172	3050	14	115	5230	28	395
3	3270	16	141	3060	18	149	5240	37	523
4	3240	14	122	3110	20	168	5260	43	611
5	3260	14	123	3120	22	185	5110	44	607
6	3200	14	121	3110	22	185	5090	42	577
7	3180	14	120	3050	21	173	5150	35	487
8	3170	14	120	3020	20	163	5150	36	501
9	3140	12	102	3100	16	134	5200	33	463
10	3120	10	84	3160	14	119	5120	30	415
11	3120	10	84	3170	15	128	5160	31	432
12	3100	13	109	3210	19	165	5120	31	429
13	3260	15	132	3240	22	192	5130	34	471
14	3080	16	133	3150	19	162	5220	36	507
15	3280	15	133	3090	19	159	5190	24	336
16	3160	13	111	3220	22	191	5190	26	364
17	3160	11	94	3770	33	336	5190	34	476
18	3160	12	102	4130	46	513	5180	32	448
19	3210	18	156	4650	51	640	5060	27	369
20	3230	20	174	5040	48	653	5050	24	327
21	3220	18	156	5040	41	558	5150	29	403
22	3250	16	140	5090	35	481	5260	37	525
23	3250	16	140	5310	40	573	5670	22	337
24	3200	16	138	5310	41	588	5340	31	447
25	3190	16	138	5280	32	456	6540	49	865
26	3200	17	147	5220	24	338	6440	39	678
27	3270	24	212	5300	27	386	5640	35	552
28	3230	20	174	5280	34	485	5950	34	546
29	3190	13	112	5260	38	540	5750	34	528
30	3150	12	102	5340	36	519	5620	29	440
31	3050	12	99	--	--	--	5530	24	358
TOTAL	99260	--	4109	119910	--	9560	166470	--	14907

	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	5100	22	303	5940	159	2550	7300	120	2370
2	4270	18	208	6390	142	2450	5440	51	749
3	3400	15	138	4180	43	485	3150	24	204
4	3330	13	117	3100	21	176	2630	21	149
5	3270	13	115	2730	25	184	2350	16	102
6	3220	12	104	3090	49	409	2160	15	87
7	3220	13	113	3060	33	273	2080	16	90
8	3210	13	113	3180	39	335	2050	13	72
9	3160	12	102	10500	337	9550	2060	15	83
10	3150	11	94	11700	284	8970	2100	15	85
11	3210	11	95	5410	63	920	2060	13	72
12	2900	15	117	2920	28	221	2020	13	71
13	2830	17	130	2780	17	128	2000	13	70
14	2810	12	91	2740	16	118	1970	17	90
15	2720	10	73	2690	15	109	1900	19	97
16	2720	10	73	2540	21	144	2500	41	277
17	2780	11	83	2680	18	130	2870	34	263
18	2850	11	85	2660	16	115	2480	22	147
19	2790	9	68	2840	16	123	2300	19	118
20	2780	13	98	2690	16	116	2140	18	104
21	2910	18	141	2650	14	100	2090	18	102
22	2910	16	126	2660	16	115	2170	20	117
23	2600	14	98	3450	44	410	2160	21	122
24	2850	13	100	5460	85	1250	2950	42	335
25	2800	13	98	6090	115	1890	3010	40	325
26	2750	22	163	6470	69	1210	2860	38	293
27	2910	22	173	7570	73	1490	2940	38	302
28	3520	36	342	7670	137	2840	2970	32	257
29	3820	29	299	7460	176	3540	2990	37	299
30	3790	27	276	--	--	--	2770	30	224
31	3690	34	339	--	--	--	2090	18	102
TOTAL	98270	--	4475	133300	--	40351	82560	--	7778

11407700 FEATHER RIVER AT YUBA CITY, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1750	16	76	3170	94	805	2130	53	305
2	1400	19	72	3030	68	556	2520	95	646
3	1310	22	78	2550	56	386	3300	129	1150
4	1240	25	84	2270	54	331	3390	111	1020
5	1290	27	94	2690	61	443	3420	90	831
6	1320	26	93	3400	98	900	3420	72	665
7	1280	22	76	3430	102	945	3470	62	581
8	1290	19	66	3460	91	850	3510	66	625
9	1310	17	60	2910	60	471	3570	74	713
10	1320	16	57	2410	46	299	3630	77	755
11	1350	18	66	2010	41	223	3510	75	711
12	1470	20	79	1900	39	200	3490	68	641
13	1420	19	73	1880	38	193	3530	80	762
14	1370	18	67	1860	35	176	3500	109	1030
15	1410	20	76	1860	31	156	3490	99	933
16	1380	22	82	1850	26	130	3470	68	637
17	1450	22	86	1700	26	119	3530	52	496
18	1370	19	70	1630	26	114	3410	49	451
19	1300	18	63	1620	25	109	3770	61	621
20	1280	19	66	1690	23	105	3460	60	561
21	1260	18	61	1770	23	110	3010	53	431
22	1510	27	110	1740	24	113	3120	51	430
23	2200	63	374	1780	23	111	3550	62	594
24	2210	54	322	1740	20	94	3510	68	644
25	2150	58	337	1720	18	84	3390	66	604
26	2170	65	381	1630	19	84	3400	67	615
27	2150	60	348	1570	22	93	3670	73	723
28	2190	51	302	1540	21	87	3940	85	904
29	2660	69	496	1460	21	83	4030	93	1010
30	3190	103	887	1430	20	77	4100	99	1100
31	--	--	--	1670	27	122	--	--	--
TOTAL	49000	--	5102	65370	--	8569	103240	--	21189

	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	4170	103	1160	3290	31	275	3660	27	267
2	4120	102	1130	3770	42	428	3590	26	252
3	4120	94	1050	3750	44	446	3550	24	230
4	3570	60	578	3010	36	293	3550	22	211
5	3150	39	332	2490	21	141	3590	23	223
6	3190	38	327	2400	16	104	3730	25	252
7	3160	38	324	2580	16	111	3700	27	270
8	3140	38	322	3040	28	230	3710	29	290
9	3080	38	316	3800	46	472	3720	29	291
10	3050	38	313	4280	55	636	3660	26	257
11	3040	42	349	4330	56	655	3710	22	220
12	2880	44	342	4370	55	649	3800	22	226
13	2490	32	215	4310	61	710	3780	25	255
14	2440	25	165	4320	63	735	3730	28	282
15	2350	24	152	4470	56	676	3710	28	280
16	2360	23	147	4310	51	593	3490	24	226
17	2370	25	160	4340	48	562	3080	18	150
18	2360	30	191	4370	45	531	3440	17	158
19	2460	37	246	4360	41	483	3210	22	191
20	2480	40	268	4290	39	452	3160	30	256
21	3060	46	380	4300	42	488	3180	33	283
22	3710	69	691	4260	48	552	3120	33	278
23	3720	66	663	4300	50	581	2790	29	218
24	3780	61	623	4260	34	391	3060	22	182
25	3830	60	620	3770	25	254	3050	17	140
26	3750	57	577	3610	28	273	3140	17	144
27	3100	42	352	3580	30	290	3130	18	152
28	3000	34	275	3640	30	295	3100	19	159
29	3000	29	235	3760	30	305	3090	19	159
30	3010	27	219	3740	29	293	3070	19	157
31	3020	27	220	3700	28	280	--	--	--
TOTAL	97000	--	12942	118800	--	13184	102300	--	6659

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1235480
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 148825

11409400 OREGON CREEK BELOW LOG CABIN DAM, NEAR CAMPTONVILLE, CALIF.

LOCATION.--Lat 39°26'18", long 121°03'28", in SW¼SW¼ sec.11, T.18 N., R.8 E., Yuba County, Tahoe National Forest, temperature recorder at gaging station on right bank 200 ft upstream from High Point Ravine, and 1.2 miles southwest of Camptonville.

DRAINAGE AREA.--29.1 sq mi.

PERIOD OF RECORD.--Water temperatures: August 1971 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 25.0°C July 16-18; minimum, 1.0°C Feb. 2, and sometime during period Dec. 15 to Jan. 4.

REMARKS.--Clock stopped Dec. 15 to Jan. 4, Apr. 13-18, Sept. 6-29; range in temperature, 1.0°C to 5.5°C, 5.0°C to 10.0°C, and 13.0°C to 21.0°C, respectively. No record May 25 to June 2.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	11.5	8.0	6.0	5.0	4.5	---	---	2.0	1.5	7.0	5.5
2	12.0	11.5	8.0	5.5	4.5	4.5	---	---	1.5	1.0	8.0	7.0
3	12.5	11.5	6.5	5.5	4.5	4.0	---	---	2.5	1.5	8.0	7.5
4	13.0	12.5	7.0	6.0	4.0	3.5	---	---	3.5	2.5	9.0	7.0
5	14.0	13.0	7.0	6.0	5.0	3.5	2.0	1.5	4.0	3.5	8.5	7.0
6	14.5	14.0	7.0	6.5	5.5	5.0	2.5	2.0	5.0	4.0	9.0	7.0
7	14.5	14.0	7.0	6.5	5.0	3.0	3.0	2.5	5.0	4.0	9.0	7.0
8	15.0	14.0	7.5	6.5	3.0	3.0	3.0	2.0	5.5	4.5	9.5	7.5
9	14.5	14.0	7.5	6.5	3.5	3.0	2.5	2.0	5.5	4.5	9.5	8.0
10	14.5	13.5	8.0	7.0	3.5	3.0	2.5	2.0	5.0	4.5	9.0	8.5
11	14.5	13.5	8.5	7.5	3.5	3.5	2.5	2.0	6.0	5.0	9.0	7.5
12	14.5	13.5	7.5	7.5	3.5	2.0	3.0	2.5	5.5	5.0	9.0	8.0
13	15.0	13.5	7.5	6.5	2.5	1.5	3.5	2.5	5.5	5.0	9.0	8.0
14	14.5	13.5	6.5	5.5	2.0	1.5	3.0	2.5	5.5	5.0	9.0	7.5
15	13.5	12.0	5.5	5.0	---	---	3.5	2.5	6.0	5.0	9.0	7.5
16	12.0	11.5	5.0	4.5	---	---	3.5	2.5	6.0	5.5	9.5	8.0
17	11.5	10.5	5.0	4.5	---	---	3.5	3.0	5.5	5.0	10.0	8.0
18	10.5	9.5	5.5	4.5	---	---	5.0	3.5	6.5	5.0	10.0	8.5
19	10.5	10.0	5.5	5.0	---	---	6.0	5.0	7.0	6.5	9.0	8.0
20	11.5	10.5	6.0	5.0	---	---	6.0	6.0	8.0	6.5	9.5	8.0
21	11.5	10.5	6.5	5.5	---	---	6.5	6.0	7.5	7.0	10.0	8.5
22	11.5	10.5	6.5	6.0	---	---	7.0	6.5	7.0	6.0	9.5	7.5
23	11.5	10.5	6.5	5.0	---	---	6.5	5.5	6.5	6.0	8.5	6.5
24	10.5	9.5	7.0	6.5	---	---	5.5	5.0	7.0	6.0	8.5	7.5
25	10.0	9.0	7.0	6.5	---	---	5.0	4.0	7.5	7.0	9.0	7.5
26	9.5	9.0	7.0	6.5	---	---	4.0	3.5	8.5	7.0	7.5	5.5
27	9.5	8.5	7.5	7.0	---	---	3.5	2.0	8.5	7.0	7.5	5.5
28	9.0	7.5	7.5	7.5	---	---	3.5	2.0	8.5	7.5	7.0	5.5
29	9.5	6.5	7.5	7.0	---	---	3.0	2.0	7.5	7.0	7.0	6.0
30	7.0	6.0	7.0	5.0	---	---	2.5	2.0	---	---	8.5	6.5
31	7.0	6.0	---	---	---	---	2.5	2.0	---	---	8.5	7.5
MONTH	15.0	6.0	8.5	4.5	---	---	7.0	1.5	8.5	1.0	10.0	5.5

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

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 recorde at gaging station on right bank, 1.1 miles downstream from New Bullards Bar Dam, and 2 miles northwest of North San Juan.

DRAINAGE AREA.--490 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1969, July 1971 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Minimum, 4.0°C Feb. 2.

Period of record:
Water temperatures: Maximum (1966-69, 1971), 25.0°C July 7, 9, 21, 1968; minimum, 2.0°C on many days in 1967 and 1968.

REMARKS.--No record Nov. 18 to Dec. 1, Mar. 24 to Apr. 3, July 13-27, Aug. 1 to Sept. 6.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

11417500 SOUTH YUBA RIVER AT JONES BAR, NEAR GRASS VALLEY, CALIF.

LOCATION.--Lat 39°17'32", long 121°06'13", near center of sec. 32, T.17 N., R.8 E., Nevada County, temperature recorder at gaging station on left bank at Jones Bar, 100 ft upstream from Rush Creek, 0.9 mile downstream from bridge on State Highway 49, and 5 miles northwest of Grass Valley.

DRAINAGE AREA.--308 sq mi.

PERIOD OF RECORD.--Water temperatures: February 1965 to September 1972.
Sediment records: Water years 1967-72 (partial-record station).

EXTREMES, 1971-72:
Water temperatures: Maximum, 27.5°C July 15-17; minimum, freezing point Feb. 2.

Period of record:
Water temperatures: Maximum, 27.5°C July 15-17, 1972; minimum, freezing point on several days in most years.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	10.5	6.0	4.5	6.0	5.0	3.5	2.5	1.5	0.5	7.0	6.5
2	13.0	10.5	6.0	5.0	6.0	5.0	3.0	2.5	1.0	0.0	8.5	7.0
3	14.0	11.5	6.0	5.0	5.5	5.0	2.5	2.0	2.5	0.5	9.0	8.0
4	14.5	12.0	6.5	5.5	5.0	4.0	2.0	1.0	3.5	2.0	9.5	8.0
5	15.5	13.0	7.0	5.5	6.0	4.0	2.0	1.0	5.0	3.5	9.5	8.0
6	16.0	14.0	6.5	5.5	7.0	5.5	2.5	1.5	5.5	4.5	9.5	8.0
7	16.5	14.5	6.5	5.5	5.5	3.5	2.5	2.0	6.0	4.5	10.0	8.5
8	17.0	14.5	7.5	6.0	3.5	3.0	2.5	2.0	6.5	5.5	10.5	9.0
9	17.0	15.0	7.5	6.5	4.0	3.0	2.0	1.5	6.5	5.0	10.5	10.0
10	16.5	14.5	8.0	7.0	4.5	4.0	2.0	1.5	6.0	5.0	10.5	10.0
11	16.5	14.5	9.0	8.0	4.5	4.0	2.5	1.5	6.5	5.0	10.0	9.0
12	16.5	14.5	9.5	9.0	4.5	2.5	2.5	1.5	7.0	5.5	10.0	9.5
13	16.5	14.5	9.0	7.5	2.5	2.0	2.5	2.0	7.0	5.5	11.0	9.0
14	16.0	14.5	7.5	6.5	2.5	1.5	2.5	2.0	6.5	5.5	11.0	9.0
15	15.0	12.5	6.5	5.5	2.5	2.0	2.5	2.0	6.5	5.5	11.0	9.0
16	12.5	11.0	5.5	5.0	2.0	1.0	2.5	2.0	7.0	5.5	11.5	9.5
17	11.0	9.5	5.0	4.0	1.5	1.0	3.5	2.5	6.5	5.0	12.0	10.0
18	10.5	9.0	5.0	4.0	2.0	1.0	5.0	3.0	7.0	5.5	11.5	10.0
19	10.5	9.5	5.0	4.0	2.0	1.5	6.0	5.0	8.5	7.0	10.5	9.0
20	11.5	10.5	5.5	4.0	1.5	1.0	6.5	6.0	9.0	7.5	11.0	9.0
21	11.5	10.0	6.0	5.0	2.5	1.0	7.0	6.5	9.5	8.5	11.5	9.5
22	11.5	10.0	6.0	5.0	5.5	2.5	7.5	7.0	9.0	7.5	10.5	8.5
23	11.5	10.5	6.0	5.0	6.0	5.0	7.5	5.5	7.5	7.0	9.5	7.5
24	10.5	9.0	7.0	6.0	7.0	5.0	5.5	4.5	7.0	7.0	9.0	8.0
25	10.0	8.5	7.0	6.0	5.0	3.5	4.5	4.0	7.5	7.0	9.5	8.0
26	9.5	8.0	8.0	7.0	4.5	3.5	4.0	3.0	8.5	7.5	8.0	6.5
27	10.0	8.5	9.0	8.0	5.0	4.0	3.0	2.0	9.0	7.5	8.0	6.0
28	8.5	6.5	9.0	8.5	4.5	4.0	3.0	2.0	9.0	8.5	8.0	6.0
29	6.5	5.0	9.0	7.5	4.5	4.0	3.0	2.0	9.0	7.0	9.0	6.0
30	5.5	5.0	7.5	6.0	4.0	3.0	2.0	0.5	---	---	10.0	7.0
31	6.0	4.5	---	---	3.0	2.5	1.5	0.5	---	---	9.5	8.0
MONTH	17.0	4.5	9.5	4.0	7.0	1.0	7.5	0.5	9.5	0.0	12.0	6.0

11417500 SOUTH YUBA RIVER AT JONES BAR, NEAR GRASS VALLEY, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	9.0	14.5	10.5	22.0	18.5	26.5	22.5	24.5	21.0	23.5	21.0
2	12.5	9.0	15.5	12.0	21.0	19.0	26.0	23.0	24.5	20.5	23.5	21.0
3	13.5	10.5	15.5	12.5	20.5	18.0	26.0	22.0	24.5	21.0	23.0	20.0
4	13.5	11.5	15.5	12.0	21.5	17.5	26.0	22.0	24.5	22.5	21.5	20.5
5	13.0	11.0	15.5	12.5	23.0	19.0	26.0	22.5	25.0	21.5	22.5	20.0
6	11.0	9.5	15.5	13.0	22.5	20.5	25.0	23.0	25.0	23.0	22.5	20.0
7	10.5	8.5	14.0	11.0	22.5	20.0	24.5	23.0	25.5	23.5	22.0	19.0
8	11.0	9.0	13.0	10.0	21.5	19.5	24.0	22.5	25.5	23.5	21.5	19.0
9	11.5	9.0	14.0	10.5	19.5	18.0	24.0	22.0	26.5	24.5	21.0	18.5
10	10.0	9.5	15.5	11.5	18.5	16.0	24.0	21.0	27.0	24.5	19.5	17.5
11	9.5	8.0	16.5	12.5	19.0	15.0	25.0	20.5	25.5	23.0	19.0	16.5
12	8.0	6.5	17.0	13.0	20.0	16.5	26.0	21.5	24.0	21.0	18.5	16.0
13	7.5	5.5	18.0	14.0	22.0	18.0	26.5	22.0	23.5	20.5	18.0	15.5
14	9.0	6.0	18.5	15.0	22.5	19.0	27.0	22.5	22.0	19.5	18.5	15.5
15	10.5	8.0	18.5	15.0	23.0	19.5	27.5	24.0	20.5	18.5	19.0	16.0
16	11.5	9.5	17.5	15.0	23.0	19.5	27.5	24.5	19.0	17.5	19.0	16.5
17	10.5	9.0	18.0	15.0	23.0	19.5	27.5	25.0	21.0	17.5	19.0	16.5
18	9.5	7.5	17.0	14.0	24.0	20.0	27.0	24.0	22.0	18.5	18.0	16.0
19	9.5	6.5	15.0	12.0	24.5	21.0	25.5	23.0	21.0	19.0	18.0	16.0
20	11.0	7.5	12.0	10.5	24.5	21.0	24.0	21.0	22.0	19.0	17.0	15.0
21	12.0	9.0	11.5	10.0	24.0	20.5	24.0	20.5	22.5	19.0	17.5	15.0
22	12.5	9.5	14.5	10.0	23.0	20.5	24.0	20.5	22.5	19.0	17.0	15.0
23	13.0	10.5	16.5	12.5	21.5	19.5	24.0	20.5	22.5	19.5	16.0	14.5
24	12.0	10.5	17.5	13.5	22.0	18.0	24.5	21.0	23.0	19.5	15.5	13.0
25	11.0	8.5	18.0	14.0	22.0	18.0	24.0	20.5	23.5	20.0	13.5	12.5
26	13.0	9.0	19.5	15.5	23.0	19.0	24.0	20.0	23.5	20.5	15.0	13.0
27	14.0	10.5	20.5	16.5	24.0	20.0	24.0	20.0	24.0	21.0	16.0	15.0
28	14.0	11.0	21.5	18.0	25.0	21.0	24.0	20.0	24.0	21.5	16.0	14.0
29	12.5	10.0	21.5	18.0	26.0	22.0	24.0	21.0	24.0	21.5	16.5	14.0
30	13.0	9.5	22.0	18.5	26.0	22.0	25.0	22.5	24.0	21.0	17.0	15.0
31	---	---	22.0	19.0	---	---	25.5	21.5	23.5	21.0	---	---
MONTH	14.0	5.5	22.0	10.0	26.0	15.0	27.5	20.0	27.0	17.5	23.5	12.5

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS,
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.					
01...	1155	4.5	66	11	2.0
29...	1430	9.0	161	6	2.6
JAN.					
03...	1220	2.0	179	5	2.4
FEB.					
07...	1400	4.5	360	13	13
29...	1200	8.0	1590	137	588
APR.					
04...	1130	12.0	260	2	1.4
MAY					
01...	1230	11.0	311	3	2.5
31...	1130	20.0	117	5	1.6
JULY					
06...	1215	23.5	61	3	.49
31...	1100	23.0	52	1	.14

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 mile southeast of Wheatland, and 6.5 miles downstream from Rock Creek.

DRAINAGE AREA.--292 sq mi.

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.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
OCT.								
05...	1300	--	52	--	--	--	--	--
NOV.								
02...	1500	--	82	--	--	--	--	--
DEC.								
06...	1520	--	86	--	--	--	--	--
JAN.								
05...	1030	--	88	7.3	3.7	34	0	28
FEB.								
03...	1015	--	156	--	--	--	--	--
MAR.								
02...	0840	--	1080	8.2	2.9	35	0	29
30...	0915	320	--	--	--	--	--	--
MAY								
03...	0800	30	--	11	4.8	49	0	40
JUNE								
01...	1430	--	13	--	--	--	--	--
27...	0800	--	12	12	4.4	64	0	52
JULY								
28...	0900	--	11	--	--	--	--	--
AUG.								
29...	1300	--	12	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	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)	TUR-BID-ITY (JTU)
OCT.							
05...	--	--	--	--	--	22.0	--
NOV.							
02...	--	--	--	--	--	15.0	--
DEC.							
06...	--	--	--	--	--	13.0	--
JAN.							
05...	4.4	38	10	94	7.2	5.5	--
FEB.							
03...	--	--	--	--	--	5.5	--
MAR.							
02...	3.9	34	5	--	--	11.0	3
30...	--	--	--	--	--	11.5	--
MAY							
03...	4.6	50	10	122	7.7	18.5	1
JUNE							
01...	--	--	--	--	--	29.5	--
27...	9.1	62	9	144	7.5	23.5	2
JULY							
28...	--	--	--	--	--	25.0	--
AUG.							
29...	--	--	--	--	--	25.5	--

11424000 BEAR RIVER NEAR WHEATLAND, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.							
05...	1300	--	52	76	7.7	22.0	9.5
NOV.							
02...	1500	--	82	66	7.6	15.0	10.6
DEC.							
06...	1520	--	86	73	8.1	13.0	11.5
JAN.							
05...	1030	--	88	94	7.3	5.5	12.9
FEB.							
03...	1015	--	156	84	7.2	5.5	11.9
MAR.							
02...	0840	--	1080	83	7.4	11.0	10.9
30...	0915	320	--	77	7.3	11.5	10.3
MAY							
03...	0800	30	--	118	7.3	18.5	8.7
JUNE							
01...	1430	--	13	135	--	29.5	8.9
27...	0800	--	12	138	7.5	23.5	7.6
JULY							
28...	0900	--	11	130	7.7	25.0	7.6
AUG.							
29...	1300	--	12	130	7.3	25.5	6.9

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 miles downstream from gaging station at Nicolaus, 3.9 miles southwest of Nicolaus, 6.6 miles northeast of Knights Landing, and at mile 5.6.
DRAINAGE AREA.--5,920 sq mi (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 September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 31.0°C July 15; minimum, 5.0°C Jan. 3.
Period of record:
Water temperatures: Maximum (1951-58, 1959-72): Maximum, 34.5°C July 21, 1961; minimum (1951-58, 1959-66, 1967-72), freezing point Jan. 3-6, 1961.
REMARKS.--Prior to 1964 water year, thermograph located at gaging station at Nicolaus (sta 11425000), 3.8 miles upstream and 2.9 miles downstream from Bear River. No record July 10, 11. Clock stopped Sept. 27-30; range in temperature, 15.0°C to 17.0°C.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	13.5	19.0	15.5	26.0	21.0	27.0	23.5	26.5	23.0	23.5	21.5
2	17.0	13.5	20.5	16.5	24.5	22.0	25.5	22.5	26.5	23.0	23.0	21.0
3	18.5	16.0	22.0	18.0	25.5	22.0	26.0	22.0	26.0	23.0	22.5	20.0
4	17.5	16.5	21.0	18.0	25.0	22.0	26.0	22.0	26.0	22.0	21.5	20.0
5	17.0	15.5	19.0	17.0	26.0	22.5	26.0	23.0	27.0	22.5	22.0	20.0
6	17.0	15.0	17.5	16.0	25.5	23.5	26.0	22.0	27.5	23.5	22.5	20.5
7	17.0	14.5	16.5	15.0	25.5	23.5	25.5	22.0	27.5	24.0	22.0	20.0
8	17.0	15.0	18.0	14.5	25.0	21.0	25.5	22.0	27.5	24.0	21.0	19.0
9	17.0	15.0	19.5	15.5	23.5	20.0	26.0	22.0	27.0	24.0	20.0	18.5
10	17.0	15.0	21.0	17.0	21.0	18.0	---	---	27.0	24.0	19.0	17.5
11	16.0	15.0	23.0	19.0	22.0	18.5	---	---	26.0	23.0	18.5	17.0
12	15.0	13.0	24.0	20.5	23.0	19.0	29.0	26.0	25.0	22.0	19.0	17.0
13	14.5	12.0	25.0	21.5	24.5	20.5	30.0	26.0	24.5	21.5	19.0	17.0
14	15.5	12.0	24.5	22.0	25.0	21.5	30.5	26.5	23.0	21.0	19.0	17.0
15	17.0	14.0	24.5	21.5	25.0	21.5	31.0	27.0	22.5	20.0	19.0	17.0
16	18.0	15.0	22.5	21.0	24.5	21.5	28.0	25.0	22.0	19.5	18.5	16.5
17	17.0	15.0	23.0	19.0	25.0	21.5	27.5	24.0	22.0	19.0	18.0	16.0
18	15.0	12.5	23.0	19.5	25.5	22.0	26.0	22.5	22.5	19.5	17.5	15.5
19	16.0	13.0	20.5	18.5	25.0	21.5	25.5	22.0	22.5	19.5	19.0	15.5
20	17.0	14.5	18.5	17.0	25.0	21.5	25.0	21.5	23.0	19.5	19.5	16.5
21	18.5	15.0	20.0	16.5	25.0	21.5	25.5	21.5	23.5	20.5	20.0	17.0
22	19.5	16.0	22.0	17.5	24.0	21.5	25.0	22.0	24.0	21.0	20.0	18.0
23	18.5	16.5	23.0	19.5	22.0	20.0	25.0	22.0	24.0	21.5	19.5	17.0
24	18.0	16.0	23.5	19.5	23.0	19.0	25.0	21.5	23.5	21.0	17.0	15.0
25	18.5	15.0	24.0	20.5	24.0	19.5	25.5	22.0	23.0	21.5	16.5	15.0
26	19.0	15.0	24.5	20.5	25.0	21.0	25.0	22.0	23.5	21.0	15.5	15.0
27	20.5	17.0	25.5	21.5	25.5	22.0	26.0	22.0	23.5	21.5	---	---
28	20.0	17.0	25.5	21.5	26.0	22.0	27.0	23.0	23.5	21.0	---	---
29	17.5	14.5	26.0	22.0	26.5	22.5	26.0	23.0	23.5	21.5	---	---
30	17.5	13.0	26.5	23.0	26.5	23.5	26.0	23.0	24.5	21.5	---	---
31	---	---	25.0	22.0	---	---	26.0	22.0	24.5	22.0	---	---
MONTH	20.5	12.0	26.5	14.5	26.5	18.0	31.0	21.5	27.5	19.0	23.5	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 upstream from spillway of North Fork Dam, 2 miles upstream from Middle Fork, and 4 miles northeast of Auburn.

DRAINAGE AREA.--342 sq mi.

PERIOD OF RECORD.--Water temperatures: November 1959 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 26.5°C Aug. 10-13; minimum, 5.5°C on several days during January.

Period of record:
Water temperatures: Maximum, 27.5°C Aug. 14-16, 1971; minimum, 4.5°C Jan. 21, 1967.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	19.5	14.0	13.5	10.0	10.0	7.0	7.0	6.5	6.5	9.0	9.0
2	19.5	19.0	13.5	13.5	10.0	10.0	7.0	6.5	6.5	6.0	9.0	9.0
3	19.0	18.5	13.5	13.5	10.0	10.0	6.5	6.5	6.0	6.0	9.0	9.0
4	18.5	18.5	13.5	13.0	10.0	9.5	6.5	6.5	6.0	6.0	9.0	8.5
5	18.5	18.5	13.0	13.0	9.5	9.5	6.5	6.5	6.0	6.0	9.0	8.5
6	18.5	18.5	13.0	13.0	9.5	9.5	6.5	6.0	6.0	6.0	9.0	9.0
7	18.5	18.5	13.0	13.0	9.5	9.0	6.0	6.0	6.5	6.0	9.0	9.0
8	18.5	18.5	13.0	13.0	9.0	8.5	6.0	6.0	7.0	6.5	9.5	9.0
9	18.5	18.5	13.0	12.5	8.5	8.5	6.0	6.0	7.0	7.0	9.5	9.5
10	18.5	18.5	12.5	12.5	8.5	8.5	6.0	6.0	7.0	7.0	9.5	9.5
11	18.5	18.0	12.5	12.0	8.5	8.5	6.0	6.0	7.5	7.0	9.5	9.5
12	18.0	18.0	12.0	12.0	8.5	8.0	6.0	6.0	7.5	7.5	9.5	9.0
13	18.0	18.0	12.0	11.5	8.0	8.0	6.0	6.0	7.5	7.5	9.0	9.0
14	18.0	18.0	11.5	11.5	8.0	8.0	6.0	6.0	7.5	7.5	9.0	9.0
15	18.0	18.0	11.5	11.5	8.0	8.0	6.0	5.5	7.5	7.5	9.0	9.0
16	18.0	17.5	11.5	11.5	8.0	7.5	5.5	5.5	7.5	7.5	9.5	9.0
17	17.5	17.0	11.5	11.5	7.5	7.5	5.5	5.5	8.0	7.5	10.0	9.5
18	17.0	17.0	11.5	11.0	7.5	7.0	5.5	5.5	8.0	8.0	10.0	10.0
19	17.0	17.0	11.0	10.5	7.0	7.0	5.5	5.5	8.0	8.0	10.0	9.5
20	17.0	16.5	10.5	10.5	7.0	7.0	5.5	5.5	8.0	8.0	9.5	9.5
21	16.5	16.0	10.5	10.0	7.0	7.0	6.0	5.5	8.5	8.0	9.5	9.5
22	16.0	15.5	10.0	10.0	7.0	6.5	6.5	6.0	8.5	8.5	9.5	9.5
23	15.5	15.5	10.0	10.0	6.5	6.5	6.5	6.0	9.0	8.5	9.5	9.0
24	15.5	15.0	10.0	10.0	6.5	6.5	7.0	6.5	9.0	9.0	9.0	9.0
25	15.0	15.0	10.0	10.0	6.5	6.5	7.0	7.0	9.0	8.5	9.0	9.0
26	15.0	15.0	10.0	10.0	7.0	6.5	7.0	7.0	8.5	8.0	9.0	9.0
27	15.0	15.0	10.0	10.0	7.0	7.0	7.0	6.5	9.0	8.0	9.0	8.5
28	15.0	15.0	10.0	10.0	7.0	7.0	6.5	6.5	9.0	9.0	8.5	8.5
29	15.0	14.5	10.0	10.0	7.0	7.0	6.5	6.5	9.0	9.0	8.5	8.0
30	14.5	14.5	10.0	10.0	7.0	7.0	6.5	6.5	---	---	8.5	8.0
31	14.5	14.0	---	---	7.0	7.0	6.5	6.5	---	---	8.5	8.5
MONTH	20.0	14.0	14.0	10.0	10.0	6.5	7.0	5.5	9.0	6.0	10.0	8.0

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

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 mile downstream from West Canyon, and 2.6 miles northwest of Georgetown.

DRAINAGE AREA.--12.5 sq mi.

PERIOD OF RECORD.--Water temperatures: July 1966 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 22.0°C July 15-17; minimum, 1.0°C Jan. 30 to Feb. 2.

Period of record:
Water temperatures: Maximum, 23.5°C July 22, 1966; minimum, 1.0°C Dec. 17, 18, 1967, Jan. 30 to Feb. 2, 1972.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.0	6.5	6.0	6.5	5.5	3.0	2.5	1.5	1.0	7.0	6.0
2	12.0	10.0	6.5	5.0	6.0	5.5	3.0	2.5	1.5	1.0	8.0	7.0
3	11.5	10.5	7.0	5.0	6.0	5.5	2.5	2.0	2.0	1.5	9.0	8.0
4	12.0	11.0	7.0	5.5	5.5	5.0	2.5	2.0	3.0	2.0	9.0	8.0
5	12.5	11.5	7.0	5.5	5.5	5.0	2.5	2.0	4.0	3.0	9.0	7.5
6	13.0	12.0	7.0	5.5	6.5	5.5	2.5	2.0	5.0	4.0	9.0	7.5
7	13.0	12.5	7.5	5.5	6.0	4.5	3.0	2.0	4.5	4.0	10.0	7.5
8	13.5	12.5	7.5	6.0	4.5	4.5	2.5	2.0	5.0	4.0	10.0	8.5
9	13.5	12.5	7.5	6.0	5.0	4.5	2.5	2.0	5.0	4.0	10.0	9.5
10	12.5	12.0	8.0	6.5	5.0	5.0	2.0	2.0	5.0	4.0	10.0	10.0
11	12.5	12.0	9.0	7.5	5.0	4.5	2.5	1.5	5.0	4.0	10.0	9.0
12	12.5	12.0	8.5	8.5	5.0	4.0	2.5	2.0	5.0	4.0	10.0	9.0
13	12.5	12.0	8.5	7.5	4.0	3.0	2.0	1.5	5.0	4.0	10.0	9.0
14	12.5	11.5	7.5	7.0	4.0	3.5	2.0	1.5	5.0	4.0	10.0	8.0
15	12.0	10.5	7.0	6.0	4.0	3.5	2.0	1.5	5.0	4.0	10.0	8.0
16	10.5	9.5	6.5	6.0	3.5	3.0	2.0	1.5	5.0	4.0	10.0	8.5
17	10.0	9.0	6.5	5.5	3.0	2.5	2.5	2.0	5.0	4.0	10.5	9.0
18	10.0	8.5	6.5	5.5	3.0	2.5	3.5	2.5	5.5	4.5	10.5	9.0
19	10.5	8.5	6.5	5.5	3.0	2.5	4.5	3.5	6.5	5.5	10.0	8.0
20	11.0	10.0	6.5	5.5	3.0	2.5	5.0	4.5	6.5	5.5	10.0	8.0
21	10.0	9.0	7.0	6.0	3.0	2.5	5.5	5.0	7.0	6.5	10.5	8.5
22	10.0	8.5	6.5	6.0	5.0	3.0	6.0	5.5	7.0	6.5	10.5	9.5
23	10.0	9.5	7.0	5.5	5.5	5.0	5.5	4.5	6.5	6.5	10.0	8.0
24	9.5	8.5	7.5	6.5	6.0	5.0	4.5	3.5	6.5	6.5	9.5	8.0
25	9.0	8.0	7.5	6.5	5.0	4.5	4.0	3.5	7.5	6.5	10.5	9.0
26	9.0	8.0	7.5	7.0	5.0	4.5	3.5	2.5	7.5	7.0	9.0	7.0
27	9.0	8.5	8.0	7.5	5.0	4.5	2.5	1.5	7.5	6.5	8.5	6.5
28	8.5	6.5	8.0	8.0	4.5	4.5	3.0	2.0	7.5	6.5	8.5	6.5
29	6.5	5.0	8.0	7.5	4.5	4.0	2.5	1.5	7.5	6.5	8.5	6.5
30	6.5	5.0	7.5	6.5	4.0	3.5	1.5	1.0	---	---	9.0	6.5
31	7.0	6.0	---	---	3.5	2.5	1.5	1.0	---	---	9.0	7.0
MONTH	13.5	5.0	9.0	5.0	6.5	2.5	6.0	1.0	7.5	1.0	10.5	6.0

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

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 mile downstream from Silver Fork of South Fork, and 1.9 miles southwest of Kyburz.

DRAINAGE AREA.--193 sq mi.

PERIOD OF RECORD.--Water temperatures: August 1966 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 25.0°C July 16-18; minimum, 0.5°C on many days during November to February.

Period of record:
Water temperatures: Maximum (1967-69, 1970-72), 25.0°C July 16-18, 1972; minimum, freezing point on many days in 1971 and 1972.

REMARKS.--No record July 27 to Aug. 7, Sept. 13-21.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.5	5.0	4.5	2.0	2.0	1.0	0.5	0.5	0.5	0.5	4.0	2.0
2	9.0	5.5	5.0	2.5	1.5	0.5	0.5	0.5	0.5	0.5	4.0	3.0
3	10.0	6.5	5.5	3.0	1.0	0.5	0.5	0.5	0.5	0.5	3.5	2.5
4	11.5	7.5	5.5	3.5	1.0	0.5	0.5	0.5	1.0	0.5	5.0	2.5
5	12.5	8.0	5.5	3.0	1.5	0.5	0.5	0.5	1.0	0.5	5.0	2.5
6	13.0	9.5	5.5	3.5	3.0	1.5	0.5	0.5	1.5	0.5	5.5	3.0
7	13.0	10.0	5.5	3.5	1.5	0.5	0.5	0.5	1.5	0.5	5.5	3.0
8	13.5	10.0	5.0	3.0	0.5	0.5	0.5	0.5	2.0	0.5	6.0	3.5
9	13.5	10.0	5.0	3.0	1.0	0.5	0.5	0.5	2.0	0.5	6.0	3.5
10	13.5	10.5	5.0	3.0	1.0	0.5	0.5	0.5	2.0	0.5	6.0	4.0
11	13.0	10.0	7.0	5.0	1.0	0.5	0.5	0.5	2.5	1.0	6.0	4.0
12	13.0	10.0	6.0	4.0	0.5	0.5	0.5	0.5	2.5	1.0	5.5	4.0
13	13.0	10.0	4.0	2.5	0.5	0.5	0.5	0.5	3.0	1.0	6.5	4.0
14	12.5	10.0	2.5	1.0	0.5	0.5	0.5	0.5	3.5	1.0	6.0	3.5
15	11.0	6.5	2.0	1.0	0.5	0.5	0.5	0.5	3.5	1.5	6.5	4.0
16	7.0	5.5	2.0	1.0	0.5	0.5	1.0	0.5	3.0	1.0	6.5	4.0
17	6.5	4.5	2.0	0.5	0.5	0.5	1.0	0.5	2.5	1.0	6.5	4.0
18	6.5	4.5	2.5	1.0	0.5	0.5	1.5	1.0	4.0	1.5	6.0	3.5
19	7.5	4.5	2.5	1.0	0.5	0.5	2.0	1.5	5.0	2.5	6.0	3.5
20	9.0	6.5	3.0	1.5	0.5	0.5	2.0	1.5	5.0	2.5	6.5	4.0
21	8.5	6.0	3.5	2.0	0.5	0.5	2.5	2.0	4.5	3.0	6.5	4.5
22	8.0	6.0	3.5	2.0	1.0	0.5	2.5	1.5	3.5	2.5	5.5	2.5
23	8.0	6.5	3.5	1.5	1.5	0.5	2.5	1.5	3.0	2.5	4.5	1.5
24	7.5	6.0	4.5	2.5	2.0	0.5	1.5	0.5	3.0	2.5	5.0	3.0
25	7.5	5.0	4.0	3.0	0.5	0.5	0.5	0.5	3.5	1.5	6.0	4.5
26	7.5	5.0	4.5	3.0	0.5	0.5	0.5	0.5	5.0	2.5	4.0	1.5
27	7.0	6.0	4.5	4.0	0.5	0.5	0.5	0.5	5.5	2.5	4.5	2.0
28	6.5	3.5	4.0	3.5	0.5	0.5	0.5	0.5	5.0	3.0	4.0	2.0
29	3.5	1.5	3.5	2.5	0.5	0.5	0.5	0.5	4.5	3.0	5.0	2.5
30	4.0	1.5	2.5	2.0	0.5	0.5	1.0	0.5	---	---	6.0	2.5
31	4.5	3.0	---	---	0.5	0.5	0.5	0.5	---	---	5.5	4.0
MONTH	13.5	1.5	7.0	0.5	3.0	0.5	2.5	0.5	5.5	0.5	6.5	1.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.0	5.0	8.5	5.0	13.0	9.5	20.0	15.5	---	---	18.0	15.5
2	7.5	4.5	9.0	5.0	12.5	10.0	20.5	16.0	---	---	19.0	15.0
3	7.5	5.0	8.5	5.0	12.5	10.0	21.0	15.5	---	---	19.0	15.0
4	7.0	5.5	9.0	5.5	12.0	10.0	22.5	15.5	---	---	17.0	15.5
5	6.5	4.0	9.0	5.0	13.0	10.0	22.5	16.5	---	---	18.5	15.5
6	6.0	4.0	8.5	5.0	13.0	11.0	22.5	15.5	---	---	18.5	14.5
7	6.5	4.0	7.5	4.5	12.0	10.5	21.0	15.5	---	---	18.5	14.5
8	6.5	3.5	8.0	5.5	11.0	9.5	21.0	14.5	22.5	17.5	18.5	14.5
9	6.5	4.0	8.5	4.5	11.5	9.5	20.5	14.5	23.0	17.5	18.0	14.0
10	6.0	4.5	9.0	5.0	9.5	8.0	21.5	14.5	23.5	18.0	16.5	13.5
11	6.0	2.0	9.5	5.5	11.5	7.0	22.0	15.5	22.5	17.5	14.5	12.0
12	2.5	1.0	10.0	5.5	13.0	10.0	23.0	16.0	21.0	16.5	14.0	10.5
13	4.5	0.5	10.5	6.0	14.0	10.5	24.0	17.0	20.0	15.0	---	---
14	5.5	1.5	10.5	6.5	14.5	11.0	24.0	17.0	19.0	14.0	---	---
15	7.0	3.0	10.0	6.5	15.0	11.5	24.5	18.0	18.0	13.5	---	---
16	6.5	4.0	10.0	6.5	14.5	11.0	25.0	19.0	17.5	12.5	---	---
17	6.5	4.0	9.0	6.5	15.5	11.5	25.0	19.0	18.5	13.0	---	---
18	5.5	3.5	8.5	6.0	16.5	13.0	25.0	19.0	18.5	14.0	---	---
19	6.0	2.5	8.0	5.5	16.5	13.0	23.5	18.0	18.0	14.0	---	---
20	7.0	3.0	5.5	5.0	16.0	13.0	21.0	17.0	18.5	14.0	---	---
21	8.0	4.5	6.5	5.0	15.5	12.0	21.5	15.5	19.0	14.0	---	---
22	7.5	4.5	9.0	5.5	16.0	13.0	22.0	15.5	19.0	14.0	13.5	10.5
23	8.0	5.0	9.5	6.5	14.5	12.0	22.0	16.0	19.0	13.5	13.0	10.0
24	6.5	4.5	10.0	7.0	15.0	11.0	22.0	16.0	19.0	14.0	12.0	9.0
25	7.0	3.0	10.5	7.5	15.0	11.0	22.0	16.0	19.5	14.0	11.0	8.0
26	8.5	4.5	11.5	8.0	16.5	12.0	22.0	16.0	19.5	14.5	11.5	10.0
27	9.0	5.5	12.0	8.5	18.0	13.5	---	---	20.0	15.0	12.0	11.0
28	8.5	5.0	12.0	9.0	19.0	14.5	---	---	19.0	16.0	13.0	9.5
29	7.5	4.0	12.0	8.5	19.5	15.5	---	---	20.0	15.5	13.5	10.0
30	8.0	4.5	12.5	9.0	20.0	15.0	---	---	20.0	16.0	13.5	11.0
31	---	---	13.0	9.5	---	---	---	---	20.5	16.0	---	---
MONTH	9.0	0.5	13.0	4.5	20.0	7.0	25.0	14.5	---	---	---	---

11445500 SOUTH FORK AMERICAN RIVER NEAR LOTUS, CALIF.

LOCATION.--Lat 38°49'07", long 120°56'45", in SW¼ sec.11, T.11 N., R.9 E., El Dorado County, temperature recorder at gaging station on left bank, 0.4 mile downstream from Greenwood Creek, 2.4 miles northwest of Lotus, and 3.3 miles northwest of Coloma.
DRAINAGE AREA.--673 sq mi.
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 September 1972.
Sediment records: Water years 1957-62 (partial-record station).
EXTREMES, 1971-72:
Water temperatures: Maximum, 19.0°C June 5, 26, July 3-5; minimum, 1.5°C Jan. 5.
Period of record:
Water temperatures: Maximum, 29.5°C July 20, 1960; minimum (1959-68, 1970-72), 1.0°C on several days in 1960 and 1962.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	11.0	9.5	7.5	7.5	6.5	4.0	3.0	4.5	3.0	7.5	5.5
2	13.5	11.5	9.0	7.0	7.5	7.0	4.0	3.0	4.0	2.5	7.5	6.0
3	14.0	12.0	9.0	7.0	7.5	7.0	4.0	3.0	4.0	3.0	8.5	6.5
4	14.5	12.0	9.0	7.0	8.0	7.0	3.5	2.5	4.0	3.5	8.5	6.5
5	14.5	12.0	9.0	7.0	8.0	6.5	4.0	1.5	4.5	4.0	8.0	6.0
6	14.5	12.0	9.0	7.0	8.0	6.5	3.5	2.5	6.5	4.5	8.5	6.5
7	15.0	12.5	9.0	7.0	7.0	6.0	3.5	2.5	6.0	4.5	8.0	6.5
8	15.0	12.0	8.5	7.5	6.5	5.0	3.5	2.5	6.0	4.5	8.5	6.5
9	15.0	12.5	9.0	7.5	6.0	5.5	3.5	2.0	6.0	4.0	8.0	6.5
10	14.5	12.5	9.0	7.5	6.5	6.0	3.5	2.5	5.5	3.5	8.0	7.0
11	14.5	12.0	9.5	8.0	6.5	6.0	3.5	3.0	6.0	3.5	9.0	7.0
12	15.5	12.5	9.0	8.5	6.0	6.0	3.5	3.0	6.0	3.5	8.5	7.0
13	15.0	12.0	9.5	8.5	6.0	5.5	4.0	3.0	6.0	4.0	9.5	7.5
14	14.5	11.5	9.0	7.5	5.5	5.0	3.5	3.0	5.5	4.5	9.5	7.0
15	12.0	11.0	8.5	7.0	6.0	5.5	4.0	3.0	5.5	4.0	9.5	7.5
16	11.0	10.5	8.5	7.0	5.5	4.5	4.5	3.0	6.5	4.0	10.0	7.5
17	11.0	10.0	8.0	7.0	5.0	4.0	4.5	3.5	6.0	4.0	10.0	7.5
18	12.0	9.5	8.0	7.0	5.0	4.0	5.0	3.5	5.5	4.0	10.0	7.5
19	12.0	10.5	8.0	6.5	5.0	4.0	5.0	4.0	6.5	4.5	10.5	7.5
20	12.0	10.5	8.0	6.5	5.0	4.0	5.0	4.5	7.0	4.5	10.5	8.0
21	12.0	10.0	7.5	6.5	5.0	3.5	5.0	4.5	7.5	6.5	10.5	8.0
22	11.5	9.5	8.0	6.5	5.5	5.0	5.0	4.5	7.0	6.5	9.0	8.0
23	11.5	10.0	7.5	6.5	6.0	5.0	6.5	4.5	6.5	5.5	10.5	7.5
24	11.0	9.0	7.5	7.0	6.0	5.0	5.5	4.0	6.0	5.5	9.5	7.5
25	11.0	9.0	8.0	7.0	6.0	5.5	5.0	4.5	6.5	5.5	10.5	8.0
26	11.0	9.0	7.5	7.0	5.5	4.5	5.0	4.5	7.5	6.0	9.5	6.5
27	10.5	9.0	8.5	7.5	5.5	4.5	4.5	4.5	7.5	5.5	9.5	7.5
28	9.5	8.0	8.0	7.5	5.0	4.5	5.0	4.0	7.0	6.0	10.0	7.0
29	9.0	7.5	8.5	7.5	5.0	4.0	4.5	3.5	7.5	6.0	10.0	7.0
30	9.0	7.5	8.0	7.0	4.5	3.5	4.5	3.0	---	---	10.0	6.5
31	9.5	7.5	---	---	4.0	3.0	4.5	3.0	---	---	8.5	7.0
MONTH	15.5	7.5	9.5	6.5	8.0	3.0	6.5	1.5	7.5	2.5	10.5	5.5

	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	9.5	16.5	13.0	18.0	12.5	16.0	12.5	15.5	12.5
2	11.5	7.5	13.5	9.5	16.5	13.5	18.5	13.0	15.5	12.5	15.0	12.5
3	12.0	8.5	14.0	10.0	16.5	13.5	19.0	15.0	15.5	12.0	16.5	12.5
4	11.0	8.5	13.0	10.0	17.0	13.5	19.0	14.5	15.5	12.0	15.5	14.5
5	9.0	8.5	12.5	10.0	19.0	14.0	19.0	15.0	15.0	12.0	17.0	14.5
6	9.0	8.0	12.5	10.5	17.5	14.5	17.5	13.0	17.0	12.0	15.5	13.0
7	10.5	8.0	11.0	10.5	17.5	14.5	17.0	12.5	16.5	13.5	15.0	12.5
8	11.0	8.0	13.5	10.0	16.5	14.0	15.5	11.5	15.5	12.5	16.0	12.5
9	11.5	8.5	13.5	10.0	16.5	14.0	17.5	12.0	16.0	12.5	15.5	12.5
10	10.5	8.5	13.5	10.0	16.5	13.5	16.5	12.0	16.0	12.5	15.5	12.5
11	9.5	8.5	13.5	10.0	16.0	13.0	16.0	12.0	15.0	12.0	15.0	13.0
12	9.0	8.5	14.0	10.5	17.5	13.5	16.5	12.5	15.0	11.5	15.0	12.5
13	10.5	8.0	14.0	10.5	16.0	12.5	16.5	12.5	16.5	11.5	15.0	12.0
14	11.5	8.0	14.5	11.0	16.5	12.5	16.0	11.5	15.5	13.5	15.0	12.0
15	12.0	8.0	16.0	12.0	16.0	12.5	17.5	12.0	16.5	12.0	15.0	12.5
16	11.5	8.0	14.5	11.0	16.0	12.5	18.0	12.5	14.5	11.5	14.5	12.5
17	10.5	8.0	14.5	11.5	16.5	12.5	17.0	14.5	14.5	11.5	15.5	12.0
18	10.5	7.5	14.5	11.0	16.5	12.5	16.0	12.5	14.5	11.5	15.0	12.5
19	11.0	8.0	12.0	11.0	17.5	14.0	15.5	12.0	14.0	11.0	15.0	12.5
20	11.5	8.0	11.5	11.0	17.0	12.5	14.5	12.0	16.0	11.5	15.0	12.5
21	11.5	8.0	12.5	10.5	17.0	13.0	15.5	13.0	15.0	12.5	15.0	12.5
22	11.5	8.5	14.0	10.5	16.5	13.0	16.0	13.0	14.5	11.5	15.0	13.0
23	13.0	8.5	13.0	9.5	15.5	13.0	18.0	13.0	15.0	11.5	14.5	12.5
24	12.0	10.0	13.5	9.5	16.0	12.0	16.5	14.5	14.5	12.0	14.5	11.5
25	11.5	8.5	13.5	10.0	18.0	13.0	16.0	12.5	15.0	12.0	13.5	11.5
26	12.5	8.5	14.5	11.0	19.0	13.5	15.5	11.5	15.0	12.0	13.0	12.5
27	13.0	9.0	15.5	11.0	16.5	13.0	16.0	12.0	16.5	12.0	14.5	12.5
28	12.0	9.0	17.0	11.5	16.5	12.5	15.5	12.0	15.5	13.5	15.5	12.5
29	12.0	9.0	17.0	14.0	16.5	12.5	15.0	11.5	15.0	13.0	15.5	14.0
30	13.0	9.0	17.0	13.0	16.5	12.5	17.0	12.5	15.0	12.0	15.0	13.5
31	---	---	16.5	12.5	---	---	17.5	14.5	15.0	12.0	---	---
MONTH	13.0	7.5	17.0	9.5	19.0	12.0	19.0	11.5	17.0	11.0	17.0	11.5

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 downstream from Nimbus Dam, 2.4 miles east of Fair Oaks, 8.1 miles downstream from South Fork, and at mile 22.2.
DRAINAGE AREA.--1,888 sq mi.
PERIOD OF RECORD.--Chemical analyses: January to December 1906 (daily), March 1951 to September 1958 (daily). November 1959 to September 1962 (daily).
Water temperatures: March 1951 to September 1958, November 1959 to September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 18.5°C on several days during August; minimum, 7.0°C on several days during January and February.
Period of record:
Water temperatures (1951-58, 1959-72): Maximum (1951-58, 1959-64, 1965-69, 1970-72), 27.0°C July 27, Aug. 3, 1954; minimum, freezing point on several days in 1957 and 1958.
REMARKS.--Recorder malfunction Jan. 3, 4, 6, 7, Mar. 5-29.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.
(International Hydrological Decade River Station)

LOCATION.--Lat 38°35'12", long 121°30'16", T.9 N., R.4 E., Sacramento County, at gaging station 1,000 ft upstream from I Street Bridge, in city of Sacramento, and 0.5 mile downstream from American River.

DRAINAGE AREA.--23,508 sq mi.

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" in 1906-08.
Water temperatures: May 1955 to September 1972.
Sediment records: October 1956 to September 1972.
Turbidity: October 1971 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 25.0°C June 5; minimum, 4.0°C Jan. 31, Feb. 1.
Sediment concentrations: Maximum daily, 271 mg/l Mar. 2; minimum daily, 15 mg/l Nov. 8, Dec. 9.
Sediment loads: Maximum daily, 22,800 tons Mar. 2; minimum daily, 579 tons Nov. 8.

Period of record:
Water temperatures: Maximum (1955-62, 1963-66, 1967-72), 28.0°C on several days in 1969 and 1970; minimum (1955-72), 4.0°C Jan. 30, 31, Feb. 1, 1957, Jan. 31, Feb. 1, 1972.
Sediment concentrations (1956-72): Maximum daily, 1,960 mg/l Dec. 24, 1964; minimum daily 11 mg/l Nov. 30, 1959 (estimated), and Nov. 28, 1969.
Sediment loads (1956-72): Maximum daily, 525,000 tons Dec. 24, 1964; minimum daily, 200 tons (estimated) Dec. 14, 1959.

REMARKS.--The maximum-minimum temperature record for the auxiliary station approximately 8 miles downstream, Sacramento River at Freeport, Calif. (sta 11447650), is considered as being part of this IHD station.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15.0	13.0	12.0	7.0	4.0	12.0	15.0	18.0	---	21.0	22.0	19.0
2	---	---	10.5	7.0	7.0	12.0	16.0	17.0	---	21.0	22.5	---
3	18.0	12.0	---	6.0	7.0	13.0	17.0	15.0	22.0	---	---	---
4	16.0	10.5	---	7.0	6.5	14.0	---	16.0	24.0	22.0	18.0	21.0
5	17.5	10.5	9.0	7.0	---	---	14.0	15.0	25.0	---	24.0	20.0
6	19.0	---	10.0	6.0	8.0	14.0	14.5	---	19.0	20.0	24.0	20.0
7	---	13.0	9.0	6.0	8.5	12.5	15.0	16.0	21.0	---	23.0	20.0
8	18.0	12.0	8.0	8.0	9.0	12.5	16.0	15.0	21.0	---	21.0	---
9	19.5	---	---	5.0	9.0	12.5	14.0	15.0	20.0	---	21.0	---
10	18.0	13.0	6.0	5.0	9.0	13.0	15.0	15.0	19.0	---	21.0	21.0
11	---	---	7.0	5.0	9.0	13.0	15.0	---	19.0	---	21.0	19.0
12	18.0	12.0	6.0	5.0	---	---	---	20.0	19.0	---	---	---
13	20.0	12.0	7.0	6.0	11.0	---	13.0	---	23.0	---	17.0	---
14	---	12.0	7.0	---	10.5	14.5	15.0	18.0	19.0	25.0	17.0	---
15	15.0	12.0	7.0	---	10.0	---	15.0	21.0	21.0	24.0	---	20.0
16	---	11.0	7.0	6.0	10.0	16.0	14.0	18.5	21.0	22.0	21.0	---
17	14.0	12.0	8.0	6.0	11.0	16.5	18.0	---	---	---	20.0	19.0
18	15.0	12.0	7.0	6.5	10.5	15.5	12.5	19.0	23.0	19.0	---	---
19	---	---	---	7.5	---	15.0	13.5	16.0	19.0	---	19.0	---
20	14.0	---	8.0	9.0	---	14.0	13.0	15.0	21.0	19.0	19.0	21.0
21	---	---	8.5	8.0	12.0	14.0	15.0	18.0	21.0	---	22.0	19.0
22	---	11.0	8.0	10.0	12.0	13.0	---	---	---	18.0	22.0	---
23	14.0	11.0	8.0	9.0	11.0	13.0	16.0	17.0	16.0	19.0	20.0	---
24	---	12.0	9.0	9.0	10.5	15.0	16.0	20.0	19.0	21.0	---	---
25	14.0	12.0	8.0	8.5	---	12.0	16.0	19.0	20.0	21.5	---	18.0
26	13.0	---	8.0	8.0	12.0	13.0	15.0	---	19.0	21.0	---	20.0
27	13.0	12.0	7.0	7.0	12.0	12.0	---	21.0	22.0	21.0	24.0	---
28	10.0	11.0	8.0	7.0	11.0	14.0	16.5	22.0	22.0	22.0	---	19.0
29	11.0	12.0	8.0	6.0	11.0	13.0	16.0	21.0	20.0	---	---	20.0
30	---	12.0	7.0	---	---	15.0	---	22.0	19.0	21.0	21.0	---
31	13.0	---	6.0	4.0	---	14.0	---	21.0	---	21.0	---	---
MONTH	---	---	8.0	7.0	9.5	13.5	15.0	18.0	20.5	---	---	---

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	18400	28	1390	13800	16	596	19200	25	1300
2	18900	27	1380	14100	18	685	19100	27	1390
3	18800	33	1680	14200	19	728	19300	26	1350
4	18500	28	1400	14200	19	728	19300	23	1200
5	18400	25	1240	14100	21	799	19400	22	1150
6	18500	28	1400	14200	21	805	19500	22	1160
7	18300	30	1480	14200	20	767	19400	24	1260
8	18100	28	1370	14300	15	579	19300	22	1150
9	18000	24	1170	14400	21	816	19300	15	782
10	17800	23	1110	14500	22	861	19200	23	1190
11	17400	25	1170	14300	18	695	19200	30	1560
12	17100	26	1200	14800	18	719	19200	41	2130
13	17000	26	1190	15300	19	785	19400	32	1680
14	16300	26	1140	15700	24	1020	19300	23	1200
15	15800	23	961	15500	27	1130	19900	17	913
16	15400	24	998	15400	23	956	19600	22	1160
17	14800	30	1200	15300	18	744	19200	23	1190
18	14700	27	1070	15400	23	956	19100	33	1700
19	14500	22	861	15800	25	1070	18900	43	2190
20	14300	24	927	16900	25	1140	18900	43	2190
21	14400	25	972	17400	25	1170	18900	53	2700
22	14300	24	927	17600	22	1050	19600	31	1640
23	14400	19	739	17800	23	1110	21000	40	2270
24	14400	16	622	17800	22	1060	25200	112	7620
25	14400	19	739	17900	27	1300	28400	123	9430
26	14400	27	1050	18000	28	1360	29600	104	8310
27	14400	26	1010	17900	23	1110	29600	79	6310
28	14500	20	783	18100	22	1080	31100	80	6720
29	14200	26	997	18100	17	831	30300	62	5070
30	14000	30	1130	18600	20	1000	28400	52	3990
31	13800	23	857	--	--	--	26700	44	3170
TOTAL	498200	--	34133	475600	--	27650	674500	--	85075

	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	25200	38	2590	23600	34	2170	27100	89	6510
2	24000	32	2070	25200	41	2790	31100	271	22800
3	22800	36	2220	25000	38	2570	30000	241	19500
4	21300	38	2190	23000	28	1740	27400	148	10900
5	19900	30	1610	22500	29	1760	30000	163	13200
6	19100	27	1390	23200	38	2380	32200	204	17700
7	18800	23	1170	24600	40	2680	31900	170	14600
8	18700	22	1110	24400	36	2370	30800	133	11100
9	18500	22	1100	25300	44	3010	29800	105	8450
10	18300	22	1090	29500	78	6210	28900	93	7260
11	18200	21	1030	29500	57	4540	28200	97	7390
12	18000	21	1020	23800	46	2960	27900	100	7530
13	17800	20	961	20700	40	2240	27900	95	7160
14	17600	20	950	19900	36	1930	27100	88	6440
15	17000	20	918	19400	33	1730	26100	89	6270
16	16500	19	846	18900	31	1580	25100	90	6100
17	16600	18	807	18600	27	1360	24500	85	5620
18	17000	21	964	18000	23	1120	24200	82	5360
19	17100	23	1060	17500	22	1040	24000	86	5570
20	17600	25	1190	16600	22	986	23700	89	5700
21	17700	24	1150	16000	22	950	22600	64	3910
22	17400	26	1320	16000	20	864	19700	57	3030
23	17900	41	1980	15900	18	773	16900	64	2920
24	21000	63	3570	16700	21	947	15500	83	3470
25	24500	139	9190	19500	40	2110	16500	84	3740
26	23900	256	16500	25100	97	6570	16400	82	3630
27	22400	174	10500	28000	87	6580	16000	67	2890
28	22500	93	5650	28100	90	6830	15800	55	2350
29	24300	52	3410	26700	74	5330	15200	52	2130
30	24700	42	2800	--	--	--	14600	71	2800
31	23700	37	2370	--	--	--	13700	65	2400
TOTAL	620000	--	84726	641400	--	78120	740800	--	228430

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	13000	67	2350	12000	81	2620	11400	35	1080
2	12500	62	2090	11500	66	2050	12100	35	1140
3	12400	67	2240	10900	33	971	12600	34	1160
4	12800	69	2380	10700	30	867	13300	34	1220
5	12900	56	1950	10600	28	801	13500	34	1240
6	13300	42	1510	11000	35	1040	13100	31	1100
7	13600	57	2090	12400	48	1610	12600	43	1490
8	14900	68	2740	13400	63	2280	13100	38	1340
9	15500	67	2800	13800	57	2120	13000	33	1160
10	15400	51	2120	13800	48	1790	13200	36	1280
11	14700	39	1550	13600	47	1730	13500	43	1570
12	14800	37	1480	13100	56	1980	13900	54	2030
13	15200	44	1810	12700	57	1950	13900	51	1910
14	16400	55	2440	12700	55	1890	13900	47	1760
15	16900	66	3010	12800	48	1660	13600	44	1620
16	16000	62	2680	12900	63	2190	13100	46	1630
17	14700	47	1870	12800	58	2000	12900	34	1180
18	13700	53	1960	12600	56	1910	13100	38	1340
19	13200	46	1640	12500	76	2570	13600	50	1840
20	12400	49	1640	12600	62	2110	13800	35	1300
21	11600	46	1440	13500	75	2730	13500	42	1530
22	10800	43	1250	14300	78	3010	13400	42	1520
23	10900	45	1320	15400	78	3240	13900	35	1310
24	11600	48	1500	15800	73	3110	14200	39	1500
25	11500	46	1430	15200	84	3450	14600	38	1500
26	11300	48	1460	14400	85	3300	15000	37	1500
27	11100	47	1410	13300	73	2620	15700	35	1480
28	10100	34	927	12700	53	1820	16800	45	2040
29	9800	35	926	12200	42	1380	17300	40	1870
30	10600	47	1350	11600	34	1060	17300	37	1730
31	--	--	--	11500	33	1020	--	--	--
TOTAL	393600	--	55363	398300	--	62879	415100	--	44370

	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	17200	43	2000	15600	26	1100	15700	30	1270
2	16800	44	2000	15700	27	1140	16100	28	1220
3	16700	38	1710	15900	23	987	16300	32	1410
4	16600	40	1790	16000	24	1040	16000	39	1680
5	16200	41	1790	15300	41	1690	15900	34	1460
6	15600	42	1770	14700	38	1510	15900	32	1370
7	15000	42	1700	14400	36	1400	16100	36	1560
8	14600	41	1620	14300	38	1470	16500	29	1290
9	14400	41	1590	14300	43	1660	16900	29	1320
10	14400	42	1630	14800	48	1920	17300	34	1590
11	14400	42	1630	15100	36	1470	17500	43	2030
12	14600	40	1580	15400	34	1410	17800	45	2160
13	14300	37	1430	15400	28	1160	18200	45	2210
14	13900	30	1130	15500	26	1090	18400	45	2240
15	13800	32	1190	15500	28	1170	18400	45	2240
16	14100	33	1260	15700	30	1270	18300	43	2120
17	14100	25	952	15600	31	1310	18200	40	1970
18	13900	23	863	15800	32	1370	17600	40	1920
19	13800	23	857	16300	38	1670	16900	40	1830
20	13900	25	938	16400	42	1860	16000	40	1730
21	13800	29	1080	16500	40	1780	16100	39	1700
22	14300	31	1200	16200	38	1660	16100	38	1650
23	15100	33	1350	16400	36	1590	15700	38	1610
24	15400	39	1620	16800	36	1630	16000	37	1600
25	15400	37	1540	16600	36	1610	16000	35	1510
26	15500	35	1460	16000	36	1560	16300	27	1190
27	15600	36	1520	16100	36	1560	16700	22	992
28	15300	29	1200	16300	35	1540	17000	28	1290
29	15200	27	1110	16200	36	1570	17200	38	1760
30	15400	25	1040	15200	37	1520	17200	45	2090
31	15700	23	975	15400	34	1410	--	--	--
TOTAL	465000	--	43525	485400	--	45127	504500	--	50012

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 6312400
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 839460

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
NOV.							
04...	0950	10.5	14200	20	767	--	--
DEC.							
26...	1800	8.0	29600	96	7670	--	--
MAR.							
02...	1600	12.0	31100	313	26300	13	33
06...	1730	14.0	32200	199	17300	--	--
JUNE							
20...	1405	21.0	13800	34	1270	--	--
JULY							
27...	1230	21.0	15600	39	1640	--	--
AUG.							
30...	1050	21.0	15200	72	2960	--	--

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
NOV.						
04...	--	--	--	83	100	--
DEC.						
26...	--	--	--	94	97	100
MAR.						
02...	52	72	85	96	99	100
06...	--	--	--	91	98	100
JUNE						
20...	--	--	--	94	99	100
JULY						
27...	--	--	--	93	100	--
AUG.						
30...	--	--	--	96	100	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

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	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
JUNE										
03...	1505	16.0	1	34400	42	75	88	98	100	--
03...	1510	16.0	1	34400	--	1	5	83	100	--
03...	1515	16.0	1	34400	--	--	4	78	98	100
03...	1520	16.0	1	34400	--	--	16	96	100	--
03...	1525	16.0	1	34400	49	70	88	100	--	--
JULY										
15...	1450	--	1	20700	46	68	81	95	99	100
15...	1455	--	1	20700	--	--	4	58	97	100
15...	1500	--	1	20700	--	--	2	64	97	100
15...	1505	--	1	20700	--	--	16	98	100	--
15...	1510	--	1	20700	--	4	43	98	99	100
15...	1520	--	1	20700	--	3	46	100	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM
AUG.										
30...	1135	21.0	5	15200	1	2	14	81	98	100

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

PERIODIC DETERMINATION OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)	DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
Oct. 1, 1971..	1210	26	10	Dec. 27.....	1200	141	50
Oct. 3.....	2030	36	15	Dec. 27.....	1230	97	30
Oct. 4.....	1530	26	10	Dec. 28.....	1000	54	20
Oct. 5.....	1210	24	10	Dec. 28.....	1200	82	25
Oct. 6.....	1210	28	10	Dec. 29.....	1100	64	20
Oct. 8.....	1210	28	10	Dec. 31.....	1800	42	15
Oct. 9.....	1910	22	9	Jan. 1, 1972..	1210	38	15
Oct. 10.....	1805	24	10	Jan. 1.....	1300	40	15
Oct. 12.....	1210	26	15	Jan. 2.....	2200	30	15
Oct. 13.....	1700	26	10	Jan. 3.....	1210	35	15
Oct. 15.....	2140	22	9	Jan. 4.....	1315	38	15
Oct. 16.....	1930	26	10	Jan. 5.....	1315	26	10
Oct. 17.....	1600	32	10	Jan. 6.....	1945	27	10
Oct. 18.....	1530	24	9	Jan. 7.....	1210	22	10
Oct. 20.....	2215	24	9	Jan. 8.....	1500	22	10
Oct. 23.....	1900	18	9	Jan. 9.....	1800	22	10
Oct. 25.....	1230	18	9	Jan. 10.....	2000	23	10
Oct. 26.....	1210	30	9	Jan. 11.....	1630	20	9
Oct. 27.....	1210	26	9	Jan. 12.....	1830	22	10
Oct. 28.....	2350	20	10	Jan. 13.....	1945	20	10
Oct. 29.....	1210	26	10	Jan. 14.....	1210	20	8
Oct. 31.....	1430	21	8	Jan. 16.....	2130	18	8
Nov. 1.....	1800	14	8	Jan. 17.....	1930	18	9
Nov. 2.....	1310	19	8	Jan. 18.....	1215	22	10
Nov. 3.....	1250	19	8	Jan. 19.....	1310	21	10
Nov. 4.....	0925	19	8	Jan. 19.....	1330	24	6
Nov. 4.....	0950	17	8	Jan. 19.....	1335	25	6
Nov. 4.....	1015	16	9	Jan. 19.....	1400	22	9
Nov. 4.....	1500	20	8	Jan. 20.....	1900	24	10
Nov. 5.....	1210	21	9	Jan. 21.....	1315	22	10
Nov. 7.....	1810	20	8	Jan. 22.....	2200	27	15
Nov. 8.....	0940	14	9	Jan. 23.....	2100	47	15
Nov. 9.....	0110	22	8	Jan. 24.....	1315	59	20
Nov. 10.....	1930	19	9	Jan. 25.....	1315	138	45
Nov. 12.....	1210	20	8	Jan. 26.....	1315	270	150
Nov. 12.....	1210	16	9	Jan. 27.....	1315	168	80
Nov. 13.....	1220	27	10	Jan. 28.....	1210	90	40
Nov. 13.....	1235	26	8	Jan. 29.....	1930	45	20
Nov. 13.....	1700	20	5	Jan. 30.....	2145	43	15
Nov. 14.....	1210	24	9	Jan. 31.....	2145	32	15
Nov. 14.....	1430	24	10	Feb. 1.....	2135	34	15
Nov. 15.....	1210	27	10	Feb. 2.....	1315	42	10
Nov. 15.....	1230	16	9	Feb. 3.....	1315	36	10
Nov. 16.....	0950	23	10	Feb. 4.....	1215	26	10
Nov. 17.....	1210	20	8	Feb. 6.....	2130	40	15
Nov. 17.....	1800	15	9	Feb. 7.....	1215	41	15
Nov. 18.....	1240	24	10	Feb. 8.....	1215	35	15
Nov. 22.....	1600	20	10	Feb. 9.....	1315	38	15
Nov. 23.....	1210	23	10	Feb. 10.....	1315	78	15
Nov. 24.....	1210	22	9	Feb. 11.....	1215	56	15
Nov. 25.....	1900	29	10	Feb. 13.....	1820	38	15
Nov. 27.....	1830	8	8	Feb. 14.....	1215	36	10
Nov. 28.....	1815	23	10	Feb. 15.....	1215	32	10
Nov. 29.....	1630	12	10	Feb. 16.....	1315	32	10
Nov. 30.....	1645	22	10	Feb. 17.....	1310	28	9
Dec. 1.....	1300	26	10	Feb. 18.....	1310	23	10
Dec. 2.....	1320	26	15	Feb. 21.....	1730	22	7
Dec. 5.....	2230	22	10	Feb. 22.....	1300	20	8
Dec. 6.....	1230	22	7	Feb. 23.....	1310	17	8
Dec. 7.....	1210	24	10	Feb. 25.....	1310	37	10
Dec. 8.....	1310	22	10	Feb. 26.....	1045	102	20
Dec. 10.....	1630	30	10	Feb. 27.....	1900	83	15
Dec. 10.....	1930	14	8	Feb. 28.....	1215	92	30
Dec. 11.....	2000	32	9	Feb. 29.....	1050	86	15
Dec. 12.....	1830	46	10	Feb. 29.....	1114	71	20
Dec. 13.....	1240	26	8	Feb. 29.....	1315	68	20
Dec. 13.....	1255	28	10	Mar. 1.....	1630	92	25
Dec. 13.....	1830	28	8	Mar. 2.....	1600	313	95
Dec. 16.....	1700	25	10	Mar. 3.....	1930	216	90
Dec. 18.....	1500	35	9	Mar. 4.....	1800	120	50
Dec. 20.....	1030	44	15	Mar. 6.....	1730	199	70
Dec. 21.....	1210	29	9	Mar. 7.....	1215	170	55
Dec. 21.....	1930	102	20	Mar. 8.....	1215	132	45
Dec. 22.....	1135	22	10	Mar. 9.....	1115	105	35
Dec. 22.....	2030	28	8	Mar. 10.....	1215	90	30
Dec. 23.....	1000	38	15	Mar. 11.....	2045	98	25
Dec. 23.....	1900	42	15	Mar. 14.....	1210	88	30
Dec. 24.....	1300	121	30	Mar. 16.....	1530	90	30
Dec. 25.....	0940	130	35	Mar. 17.....	1210	84	25
Dec. 26.....	1800	96	50	Mar. 18.....	1800	82	25

11447500 SACRAMENTO RIVER AT SACRAMENTO, CALIF.--Continued

PERIODIC DETERMINATION OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)	DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
Mar. 19, 1972.	1730	88	30	June 16.....	1030	44	15
Mar. 20.....	1600	90	25	June 17.....	2330	32	15
Mar. 21.....	2230	62	25	June 18.....	1600	40	15
Mar. 22.....	1630	56	25	June 19.....	2300	45	15
Mar. 23.....	2230	63	30	June 20.....	1300	49	15
Mar. 24.....	1630	86	30	June 20.....	1400	31	10
Mar. 25.....	2130	81	25	June 20.....	1435	30	15
Mar. 26.....	2300	82	40	June 21.....	1300	47	15
Mar. 27.....	1830	56	25	June 23.....	2100	35	15
Mar. 28.....	1630	55	25	June 24.....	1630	40	15
Mar. 29.....	1630	48	25	June 24.....	1900	38	15
Mar. 30.....	1330	77	25	June 25.....	1900	38	15
Mar. 31.....	1830	62	25	June 26.....	2330	36	15
Apr. 1.....	1200	68	25	June 27.....	1600	34	15
Apr. 2.....	1430	59	25	June 28.....	1300	48	15
Apr. 3.....	1800	70	30	June 29.....	1630	36	10
Apr. 5.....	1330	56	20	June 30.....	2330	40	15
Apr. 6.....	0915	32	25	July 1.....	2300	46	15
Apr. 6.....	0950	28	20	July 2.....	2200	43	15
Apr. 6.....	1010	34	20	July 4.....	2200	40	15
Apr. 6.....	1630	45	15	July 6.....	1230	42	10
Apr. 7.....	1640	58	20	July 14.....	2340	26	10
Apr. 8.....	1630	70	25	July 15.....	1130	32	10
Apr. 9.....	1430	68	20	July 16.....	1930	32	10
Apr. 10.....	1645	46	20	July 18.....	2300	21	10
Apr. 11.....	1630	38	15	July 18.....	2315	23	10
Apr. 12.....	--	46	20	July 20.....	2130	27	10
Apr. 13.....	1800	48	15	July 20.....	2330	30	10
Apr. 14.....	1630	56	15	July 22.....	2200	30	15
Apr. 15.....	1830	70	20	July 23.....	2230	34	10
Apr. 16.....	1930	57	20	July 24.....	1215	41	15
Apr. 17.....	1400	43	6	July 25.....	1215	37	10
Apr. 18.....	2215	56	20	July 26.....	2230	38	15
Apr. 19.....	1315	42	15	July 27.....	1230	40	15
Apr. 20.....	2230	50	15	July 27.....	1415	34	15
Apr. 21.....	1630	45	20	July 27.....	2330	33	10
Apr. 23.....	2200	48	15	July 28.....	2200	28	10
Apr. 24.....	1210	49	15	July 30.....	2300	24	10
Apr. 25.....	2330	42	15	July 31.....	2230	23	10
Apr. 26.....	1430	52	15	Aug. 1.....	1215	26	10
Apr. 28.....	1105	40	15	Aug. 2.....	1215	26	10
Apr. 28.....	1120	34	15	Aug. 4.....	2200	26	7
Apr. 29.....	1700	37	15	Aug. 5.....	1530	49	10
May 1.....	1700	53	20	Aug. 6.....	1400	33	10
May 1.....	1830	96	35	Aug. 7.....	1215	36	15
May 3.....	2330	31	8	Aug. 8.....	2330	34	10
May 4.....	1230	30	15	Aug. 9.....	2345	55	15
May 5.....	1300	28	15	Aug. 10.....	2330	35	15
May 7.....	1715	52	20	Aug. 11.....	1200	38	10
May 8.....	1030	66	20	Aug. 13.....	2300	27	10
May 9.....	2230	58	20	Aug. 14.....	2200	26	10
May 10.....	2130	45	15	Aug. 16.....	2200	30	15
May 12.....	1430	57	20	Aug. 17.....	2200	32	15
May 14.....	2040	52	20	Aug. 19.....	2230	42	15
May 15.....	2115	47	20	Aug. 20.....	2300	40	15
May 16.....	2315	70	20	Aug. 21.....	2330	42	10
May 18.....	1230	54	20	Aug. 22.....	2200	32	10
May 19.....	1000	88	30	Aug. 23.....	1400	38	15
May 20.....	1200	56	25	Aug. 23.....	2300	36	10
May 21.....	2115	78	25	Aug. 27.....	2200	36	10
May 23.....	1040	78	20	Aug. 30.....	1055	41	15
May 24.....	1800	71	20	Aug. 30.....	1150	37	15
May 25.....	1800	90	25	Aug. 31.....	2300	32	8
May 27.....	1800	69	20	Sept. 1.....	2315	28	10
May 28.....	1910	44	15	Sept. 4.....	2200	40	10
May 29.....	1730	42	10	Sept. 5.....	2300	28	10
May 30.....	1000	32	10	Sept. 6.....	2230	37	15
May 31.....	1130	34	10	Sept. 7.....	1045	29	10
June 3.....	1430	33	10	Sept. 7.....	1830	37	10
June 4.....	1530	34	15	Sept. 10.....	1700	35	15
June 5.....	1530	34	15	Sept. 11.....	1830	44	15
June 6.....	2200	31	15	Sept. 15.....	2000	44	15
June 7.....	1600	47	15	Sept. 17.....	1830	40	10
June 8.....	1630	32	10	Sept. 20.....	1730	39	10
June 9.....	1000	37	15	Sept. 21.....	2030	39	15
June 10.....	1930	34	15	Sept. 22.....	2100	37	15
June 11.....	1130	44	15	Sept. 25.....	1630	35	10
June 12.....	1210	54	20	Sept. 26.....	2130	22	15
June 13.....	1210	50	15	Sept. 28.....	1600	30	10
June 14.....	1210	46	15	Sept. 29.....	2000	42	10

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.
(Radiochemical station)

LOCATION.--Lat 38°27'20", long 121°30'07", in sec. 14, T.7 N., R.4 E., Sacramento County, at drawbridge at Freeport, approximately 11 miles 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).
Water temperatures: June 1960 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 24.0°C July 14-16; minimum, 6.5°C on several days during February.

Period of record:
Water temperatures: Maximum, 24.0°C June 16, 17, 1961, July 14-16, 1972; minimum, 5.0°C Jan. 24, 27, 1962.

REMARKS.--Temperature recorder located on right bank 1.9 miles northwest of Freeport, and 7.5 miles southwest of State Capitol building in Sacramento. Data collected at this site are considered as being part of the International Hydrological Decade Station, Sacramento River at Sacramento (sta 11447500).

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)
OCT.								
12...	1020	17100	73	15	<.3	.2	<1.0	.6
MAR.								
14...	1040	27100	81	44	.3	.6	.9	1.8
SEP.								
29...	1600	17200	99	16	<.3	<.1	<1.0	<.4

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 (PLAN-CHET COUNT) (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
OCT.							
12...	1.8	.6	1.4	.6	--	.04	.07
MAR.							
14...	2.1	1.7	1.6	1.4	--	.02	.07
SEP.							
29...	2.2	.5	1.7	.4	<.1	--	.10

11447650 SACRAMENTO RIVER AT FREEPORT, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

11447810 SACRAMENTO RIVER AT GREEN'S LANDING, NEAR COURTLAND, CALIF.

LOCATION.--Lat 38°20'45", long 121°32'42", in NE¼N½ sec.28, T.6 N., R.4 E., Sacramento County, on left bank, 2.2 miles upstream from Sutter Slough, and 1.6 miles northeast of Courtland.

PERIOD OF RECORD.--Chemical analyses: October 1952 to September 1958, June 1971 to September 1972. Published as "at Snodgrass Slough, near Courtland" in 1953-58.

REMARKS.--Chemical-quality samples collected and analyses of minor chemical constituents furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	ALKA-LINITY AS CACO3 (MG/L)
OCT.										
21...	1000	18	10	10	5.1	6.8	.8	64	0	53
NOV.										
17...	1320	18	20	10	5.5	8.1	1.3	69	0	57
DEC.										
15...	1300	20	20	10	5.2	7.1	1.7	65	0	53
JAN.										
26...	1300	19	40	11	5.4	6.4	1.2	64	0	53
FEB.										
16...	1350	22	20	11	5.5	8.1	1.4	71	0	58
MAR.										
15...	1405	25	20	11	4.9	6.1	1.3	66	0	54
APR.										
19...	1505	21	30	10	5.6	7.0	1.3	64	0	53
MAY										
17...	1240	19	40	13	7.6	14	1.5	90	0	74
JUNE										
21...	1125	19	20	10	5.8	10	1.1	76	0	62
JULY										
26...	1030	18	20	11	6.3	10	1.2	70	0	57
AUG.										
16...	1010	16	30	14	6.1	10	1.3	72	0	59
SEP.										
20...	0835	17	30	13	7.0	12	1.2	92	0	75

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)	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)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.									
21...	9.3	4.4	.0	.34	.17	88	.12	46	0
NOV.									
17...	6.8	5.6	.0	.13	.16	90	.12	48	0
DEC.									
15...	6.3	5.5	.0	.14	.13	89	.12	46	0
JAN.									
26...	6.8	5.9	.0	.21	.14	88	.12	50	0
FEB.									
16...	8.1	5.7	.1	.16	.11	98	.13	50	0
MAR.									
15...	7.1	3.3	.1	.16	.12	92	.13	48	0
APR.									
19...	6.0	4.2	.1	.15	.19	88	.12	48	0
MAY									
17...	15	8.0	.0	.14	.19	123	.17	64	0
JUNE									
21...	9.7	7.4	.0	.11	.19	101	.14	49	0
JULY									
26...	9.9	7.0	.1	.04	.12	98	.13	53	0
AUG.									
16...	10	7.4	.1	.04	.13	101	.14	60	1
SEP.									
20...	8.6	7.9	.1	.04	.13	112	.15	61	0

11447810 SACRAMENTO RIVER AT GREEN'S LANDING, NEAR COURTLAND, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 BORON (B) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
OCT.									
21...	24	.4	124	7.1	14.0	8	40	10	100
NOV.									
17...	26	.5	135	7.4	11.5	10	60	10	270
DEC.									
15...	24	.5	126	7.5	7.5	7	40	0	130
JAN.									
26...	21	.4	122	7.4	8.5	50	60	0	160
FEB.									
16...	25	.5	147	7.4	9.5	10	40	0	100
MAR.									
15...	21	.4	118	7.7	13.0	20	40	0	90
APR.									
19...	23	.4	130	7.3	14.0	4	50	0	110
MAY									
17...	32	.8	199	6.9	20.5	20	80	0	130
JUNE									
21...	30	.6	151	7.7	21.5	10	70	10	100
JULY									
26...	28	.6	151	7.4	21.0	10	50	0	40
AUG.									
16...	26	.6	151	8.1	20.0	8	60	0	70
SEP.									
20...	29	.7	175	7.2	18.0	10	70	0	90

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.					
21...	1000	102	7.3	14.0	9.6
NOV.					
17...	1320	145	7.3	11.5	10.5
DEC.					
15...	1300	135	7.3	7.5	11.5
JAN.					
26...	1300	130	7.3	8.5	10.6
FEB.					
16...	1350	150	7.3	9.5	10.6
MAR.					
15...	1405	125	7.4	13.0	10.3
APR.					
19...	1505	135	7.3	14.0	9.6
MAY					
17...	1240	210	7.4	20.5	7.6
JUNE					
21...	1125	--	7.3	21.5	7.5
JULY					
26...	1030	155	7.4	21.0	8.0
AUG.					
16...	1010	155	7.4	20.0	7.7
SEP.					
20...	0835	171	7.4	18.0	8.1

CHEMICAL ANALYSES OF MINOR CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.								
21...	0950	10	0	0	10	10	0	0
NOV.								
17...	1300	10	0	0	0	0	10	0
DEC.								
15...	1320	30	0	0	10	0	0	10
JAN.								
26...	1320	50	0	0	10	0	0	10
FEB.								
16...	1400	20	0	0	10	0	10	10
MAR.								
15...	1400	30	0	0	10	0	0	0
APR.								
19...	1500	30	0	0	0	0	0	0
MAY								
17...	1235	10	0	0	10	0	10	0
JUNE								
21...	1120	20	0	0	20	0	10	10
JULY								
26...	1020	70	0	0	10	0	10	20
AUG.								
16...	1005	30	0	0	10	0	10	10
SEP.								
20...	0830	20	0	0	10	0	10	10

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 upstream from gaging station, and 4.0 miles southwest of Kelseyville.

DRAINAGE AREA.--14.2 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1968-72 (partial-record station). Published as sta 11448900 "above Highland Creek Dam" in 1968.
Water temperatures: November 1966 to September 1972.
Sediment records: December 1965 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 70 mg/l Dec. 25; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 13 tons Dec. 25; minimum daily, 0 tons on many days.

Period of record:
Sediment concentrations: Maximum daily, 182 mg/l Jan. 5, 1966; minimum daily, no flow for many days in 1966-72.
Sediment discharge: Maximum daily, 337 tons Jan. 24, 1970; minimum daily, 0 tons on many days in 1966-72.

REMARKS.--No flow Dec. 10-21, June 14 to July 14, July 18. Bed at sampling point is concrete outlet from dam with no material over concrete.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.									
09...	1045	.48	45	30	15	1.2	317	0	260
DEC.									
02...	1300	.28	44	32	15	1.4	317	0	260
JAN.									
05...	1445	8.9	24	17	7.9	1.1	162	0	133
FEB.									
04...	1100	19	25	18	8.4	.9	167	0	137

DATE	DISSOLVED SULFATE (SO4) (MG/L)	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)
NOV.									
09...	2.0	4.0	240	0	12	.4	486	6.6	10.5
DEC.									
02...	7.3	6.6	240	0	12	.4	482	7.7	9.0
JAN.									
05...	5.8	5.7	130	0	12	.3	279	7.7	5.5
FEB.									
04...	9.1	4.8	140	0	12	.3	270	7.5	5.0

11449010 HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	9.0	---	---	---	---	17.5	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	6.0	---	15.5	---	---	---	---	---
5	---	---	---	5.5	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	15.0	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	20.0
8	---	---	---	---	---	13.5	---	---	---	---	16.5	---
9	---	10.5	---	---	---	---	---	---	---	---	---	---
10	---	---	---	7.0	---	---	---	17.0	---	---	---	---
11	---	---	---	---	8.0	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	17.0	---	---	---	---	---	---	---	24.0	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	17.5	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	7.0	---	---	---	---	---	---	---	---	---
23	---	---	---	7.0	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	22.0	---	---	---	---
25	---	---	---	9.0	8.0	---	---	---	---	---	---	---
26	---	---	---	6.0	---	---	---	---	---	---	---	---
27	---	---	---	---	8.0	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	16.0	---	---	---	---	---	---
31	---	---	---	---	---	---	---	24.0	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT,
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC. 22...	1600	7.0	138	59	22	100

11449010 HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1.7	5	.02	.59	4	.01	.33	4	0
2	1.5	4	.02	.50	4	.01	.33	4	0
3	1.5	4	.02	.59	5	.01	.28	4	0
4	1.5	4	.02	.50	5	.01	.38	4	0
5	1.4	3	.01	.59	6	.01	.28	4	0
6	1.4	3	.01	.59	7	.01	.23	4	0
7	1.4	3	.01	.59	7	.01	.23	4	0
8	1.2	2	.01	.50	7	.01	.23	4	0
9	1.2	2	.01	.50	8	.01	.22	4	0
10	1.4	2	.01	.50	8	.01	0	0	0
11	1.4	3	.01	.59	8	.01	0	0	0
12	1.5	3	.01	.59	8	.01	0	0	0
13	1.7	3	.01	.59	8	.01	0	0	0
14	1.7	3	.01	.68	8	.01	0	0	0
15	1.7	3	.01	.77	8	.02	0	0	0
16	1.7	3	.01	.86	8	.02	0	0	0
17	1.7	3	.01	.77	8	.02	0	0	0
18	1.5	3	.01	.68	8	.01	0	0	0
19	1.4	3	.01	.59	8	.01	0	0	0
20	1.1	3	.01	.59	8	.01	0	0	0
21	1.1	3	.01	.59	8	.01	0	0	0
22	.95	3	.01	.44	8	.01	152	36	11
23	.68	3	.01	.44	8	.01	45	48	5.8
24	.68	3	.01	.38	8	.01	157	30	12
25	.86	4	.01	.38	8	.01	69	70	13
26	.86	4	.01	.38	8	.01	41	24	2.7
27	.77	4	.01	.44	8	.01	57	22	3.4
28	.86	4	.01	.50	6	.01	37	12	1.2
29	.77	4	.01	.44	5	.01	31	12	1.0
30	.59	4	.01	.33	4	0	33	11	.98
31	.59	4	.01	--	--	--	25	11	.74
TOTAL	38.31	--	.35	16.48	--	.32	649.51	--	51.82

	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	25	11	.74	13	6	.21	22	9	.53
2	24	10	.65	9.6	6	.16	27	9	.66
3	20	12	.65	8.0	6	.13	30	9	.73
4	11	13	.39	21	5	.28	25	9	.61
5	9.0	13	.32	70	10	1.9	20	9	.49
6	8.4	13	.29	50	17	2.3	16	9	.39
7	6.0	11	.18	34	13	1.2	14	8	.30
8	5.7	10	.15	24	11	.71	11	8	.24
9	5.4	9	.13	18	10	.49	8.8	8	.19
10	4.8	8	.10	15	10	.41	11	8	.24
11	4.6	8	.10	12	9	.29	8.8	8	.19
12	4.6	8	.10	9.6	9	.23	7.2	7	.14
13	4.6	8	.10	7.2	9	.17	5.8	7	.11
14	4.6	7	.09	5.8	9	.14	4.6	7	.09
15	4.3	7	.08	4.1	9	.10	4.1	7	.08
16	4.1	7	.08	3.4	9	.08	4.1	7	.08
17	4.1	7	.08	3.4	9	.08	3.7	7	.07
18	3.8	6	.06	2.8	9	.07	3.0	7	.06
19	3.8	6	.06	2.8	9	.07	3.2	6	.05
20	3.8	6	.06	2.8	9	.07	3.2	6	.05
21	4.6	5	.06	3.2	9	.08	3.2	6	.05
22	6.8	5	.09	18	10	.49	13	6	.21
23	31	6	.50	68	17	3.1	14	6	.23
24	25	8	.54	59	19	3.0	8.0	6	.13
25	49	5	.66	43	14	1.6	4.1	5	.06
26	37	10	1.0	35	12	1.1	3.4	5	.05
27	26	7	.49	25	10	.68	3.4	5	.05
28	21	7	.40	22	10	.59	3.2	4	.03
29	17	6	.28	30	10	.81	3.2	3	.03
30	16	6	.26	--	--	--	3.2	2	.02
31	14	6	.23	--	--	--	3.0	2	.02
TOTAL	409.0	--	8.92	619.7	--	20.54	294.2	--	6.18

11449010 HIGHLAND CREEK BELOW HIGHLAND CREEK DAM, NEAR KELSEYVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	3.0	2	.02	5.2	2	.03	.64	2	0
2	2.8	2	.02	5.2	2	.03	.50	2	0
3	2.8	2	.02	4.6	2	.02	.50	2	0
4	2.8	3	.02	4.1	2	.02	.44	2	0
5	18	4	.19	4.1	2	.02	.38	2	0
6	27	6	.44	3.7	1	.01	.32	2	0
7	14	5	.19	3.7	1	.01	.12	2	0
8	9.6	5	.13	3.7	1	.01	.03	2	0
9	6.5	5	.09	3.4	1	.01	.02	2	0
10	5.2	5	.07	3.4	1	.01	.03	2	0
11	23	5	.31	3.2	1	.01	.04	2	0
12	71	5	.96	2.8	1	.01	.08	3	0
13	61	8	1.3	2.6	1	.01	.04	3	0
14	36	5	.49	2.3	1	.01	0	0	0
15	25	5	.34	2.2	1	.01	0	0	0
16	18	5	.24	2.2	1	.01	0	0	0
17	14	5	.19	2.3	2	.01	0	0	0
18	12	4	.13	2.2	2	.01	0	0	0
19	10	4	.11	2.2	2	.01	0	0	0
20	8.8	4	.10	2.6	2	.01	0	0	0
21	7.2	4	.08	2.8	3	.02	0	0	0
22	5.8	4	.06	2.6	3	.02	0	0	0
23	5.8	3	.05	2.5	3	.02	0	0	0
24	8.8	3	.07	2.3	3	.02	0	0	0
25	6.5	3	.05	2.3	3	.02	0	0	0
26	5.8	3	.05	2.2	3	.02	0	0	0
27	5.8	3	.05	2.0	3	.02	0	0	0
28	5.2	2	.03	1.7	2	.01	0	0	0
29	5.2	2	.03	.90	2	0	0	0	0
30	5.2	2	.03	1.1	2	.01	0	0	0
31	--	--	--	.80	2	0	--	--	--
TOTAL	431.8	--	5.86	86.90	--	.43	3.14	--	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	0	0	0	.12	20	.01	.12	29	.01
2	0	0	0	.16	26	.01	.12	29	.01
3	0	0	0	.16	26	.01	.12	29	.01
4	0	0	0	.12	26	.01	.08	29	.01
5	0	0	0	.16	26	.01	.08	29	.01
6	0	0	0	.16	26	.01	.08	29	.01
7	0	0	0	.16	26	.01	.08	29	.01
8	0	0	0	.16	26	.01	.08	29	.01
9	0	0	0	.16	26	.01	.12	29	.01
10	0	0	0	.12	26	.01	.16	29	.01
11	0	0	0	.08	26	.01	.12	25	.01
12	0	0	0	.08	26	.01	.12	25	.01
13	0	0	0	.12	26	.01	.12	25	.01
14	0	0	0	.12	26	.01	.12	25	.01
15	.02	10	0	.12	26	.01	.08	22	0
16	.06	15	0	.12	26	.01	.08	22	0
17	.04	13	0	.12	26	.01	.12	22	.01
18	0	0	0	.12	26	.01	.12	22	.01
19	.01	5	0	.12	26	.01	.12	22	.01
20	.06	10	0	.12	26	.01	.12	22	.01
21	.08	15	0	.12	26	.01	.08	20	0
22	.08	15	0	.12	26	.01	.06	18	0
23	.08	15	0	.12	26	.01	.06	17	0
24	.08	15	0	.16	27	.01	.06	16	0
25	.08	15	0	.16	28	.01	.08	15	0
26	.08	15	0	.16	29	.01	.08	14	0
27	.06	15	0	.12	29	.01	.06	13	0
28	.08	15	0	.12	29	.01	.06	13	0
29	.08	15	0	.12	29	.01	.06	13	0
30	.08	15	0	.12	29	.01	.04	13	0
31	.12	20	.01	.12	29	.01	--	--	--
TOTAL	1.09	--	.01	4.04	--	.31	2.80	--	.18

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 2556.97
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 94.92

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 miles upstream from Clear Lake Water Company's diversion dam, 3.2 miles northwest of Capay, and 5.4 miles northwest of Esparto.

DRAINAGE AREA.--1,044 sq mi.

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 September 1972.
Sediment records: Water years 1959-62 (partial-record station).

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
OCT.								
08...	0945	84	--	--	--	--	--	--
21...	0830	48	36	32	223	4	190	42
NOV.								
04...	1430	13	41	44	257	6	221	61
DEC.								
06...	1130	32	50	77	300	0	246	120
JAN.								
04...	1400	215	32	50	245	0	201	76
FEB.								
02...	1030	170	--	--	--	--	--	--
MAR.								
02...	1530	310	21	28	149	0	122	33
APR.								
13...	1010	331	--	--	--	--	--	--
MAY								
03...	1100	255	--	--	--	--	--	--
JUNE								
01...	1130	254	--	--	--	--	--	--
27...	1130	374	14	16	173	0	142	7.0
JULY								
12...	0800	455	--	--	--	--	--	--
28...	1200	4.0	43	49	258	0	212	70

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.							
08...	--	--	--	--	18.5	--	--
21...	194	4	503	8.4	13.0	--	1800
NOV.							
04...	232	11	616	8.4	14.5	--	2000
DEC.							
06...	275	29	873	8.1	11.0	--	2700
JAN.							
04...	230	29	658	8.1	5.0	--	2600
FEB.							
02...	--	--	--	--	4.5	--	--
MAR.							
02...	123	1	356	8.0	15.0	3	1400
APR.							
13...	--	--	420	--	11.5	--	--
MAY							
03...	--	--	--	--	20.5	--	--
JUNE							
01...	--	--	--	--	24.5	--	--
27...	137	0	323	7.7	25.5	8	1200
JULY							
12...	--	--	--	--	24.5	--	--
28...	232	20	550	8.2	28.5	1	1700

11452000 CACHE CREEK NEAR CAPAY, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
08...	0945	84	400	8.2	18.5	9.0
21...	0830	48	480	8.0	13.0	10.0
NOV.						
04...	1430	13	560	8.5	14.5	13.4
DEC.						
06...	1130	32	800	8.2	11.0	11.5
JAN.						
04...	1400	215	600	8.2	5.0	12.1
FEB.						
02...	1030	170	580	8.2	4.5	12.1
MAR.						
02...	1530	310	330	8.0	15.0	10.2
APR.						
13...	1010	331	420	8.3	11.5	10.3
MAY						
03...	1100	255	350	8.1	20.5	9.7
JUNE						
01...	1130	254	320	--	24.5	9.7
27...	1130	374	290	8.2	25.5	9.2
JULY						
12...	0800	455	280	8.0	24.5	7.7
28...	1200	4.0	550	--	28.5	11.0

11453500 PUTAH CREEK NEAR GUENOC, CALIF.

LOCATION.--Lat 38°46'44", long 122°30'59", in Guenoc Grant, Lake County, at gaging station on right bank, just upstream from Coyote Valley damsite, 2.8 miles upstream from Soda Creek, and 3.2 miles downstream from highway bridge at Guenoc.

DRAINAGE AREA.--113 sq mi.

PERIOD OF RECORD.--Water temperatures: March 1960 to September 1972.
Sediment records: Water years 1962-64 (partial-record station), December 1964 to March 1965, water years 1965-72 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 30.5°C July 14; minimum, 5.5°C Dec. 27, Jan. 27.

Period of record:
Water temperatures: Maximum, 30.5°C July 14, 1972; minimum (1960-65, 1966-72), 4.5°C Dec. 14, 1967.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	15.5	15.0	13.0	11.5	10.0	10.0	8.5	9.0	6.5	12.0	9.5
2	19.5	15.5	15.5	13.5	11.5	10.5	10.0	8.0	9.0	6.0	15.0	11.0
3	20.0	16.5	15.0	13.0	11.0	10.0	8.5	6.0	8.0	7.0	15.5	12.0
4	20.0	17.0	15.5	13.0	10.0	9.5	8.5	6.0	8.0	7.0	16.0	12.0
5	21.0	17.0	15.0	13.5	11.0	9.5	9.0	6.5	8.5	7.0	16.5	12.0
6	21.0	18.0	14.5	13.0	12.0	10.0	9.5	7.0	10.0	8.0	16.5	12.0
7	20.5	18.0	14.0	12.0	10.0	8.5	9.5	7.0	10.5	8.5	17.0	13.0
8	21.0	18.0	14.0	13.0	9.5	8.0	9.5	7.0	10.0	9.0	15.0	13.5
9	21.0	18.0	13.5	13.0	11.0	9.0	9.5	6.5	11.5	9.0	14.0	13.0
10	20.5	17.0	---	---	10.0	9.0	9.5	6.5	11.5	9.0	15.5	13.0
11	20.5	17.0	---	---	9.5	8.5	9.5	6.5	12.0	9.0	17.0	13.0
12	20.5	18.0	15.5	14.5	10.0	8.0	9.5	8.0	12.0	9.5	16.5	14.5
13	21.5	17.0	14.5	14.0	9.0	7.0	10.5	8.0	13.5	10.0	18.0	13.0
14	20.0	18.5	14.0	12.0	9.5	7.0	10.5	8.0	10.5	10.0	18.0	13.0
15	19.0	17.0	12.0	11.5	9.0	7.0	10.0	8.0	12.0	9.0	19.0	13.5
16	17.0	15.5	12.0	10.0	9.0	7.0	10.0	8.0	13.5	9.5	19.5	13.5
17	16.5	15.5	13.0	11.0	9.5	8.0	10.5	8.0	13.5	10.0	20.0	14.0
18	16.0	14.5	13.0	12.0	9.5	8.0	10.5	9.0	13.5	10.0	19.0	13.0
19	15.5	15.0	13.5	11.0	9.5	8.0	11.0	10.0	12.0	11.0	18.0	13.0
20	18.5	15.5	14.0	12.0	9.5	8.0	11.0	10.0	14.5	11.0	18.0	13.0
21	18.0	15.5	13.5	12.0	9.0	8.0	12.0	10.5	12.0	10.0	18.0	13.0
22	16.0	15.5	14.0	12.0	9.0	8.5	11.0	10.0	10.5	10.0	16.0	13.5
23	16.5	15.5	13.5	12.0	9.0	8.0	10.0	9.0	11.0	10.0	17.0	11.5
24	15.5	14.0	13.5	12.0	9.0	8.0	9.0	6.5	11.0	10.0	15.0	12.0
25	16.0	13.5	13.0	12.0	8.0	6.5	9.5	8.0	10.5	10.0	16.0	11.5
26	16.5	14.0	13.5	12.0	7.0	6.5	8.0	6.5	13.0	10.0	15.0	10.0
27	15.5	14.5	13.0	12.0	7.0	5.5	8.0	5.5	14.5	10.0	16.0	10.0
28	14.5	11.0	13.5	13.0	9.0	7.0	8.5	6.5	13.5	12.0	16.5	10.5
29	13.5	10.5	14.0	12.0	10.0	8.5	9.0	7.0	13.0	10.0	16.5	10.5
30	14.0	12.0	12.0	11.0	9.5	8.0	9.0	6.0	---	---	18.0	11.0
31	14.5	13.0	---	---	9.5	8.0	9.0	6.5	---	---	15.0	12.0
MONTH	21.5	10.5	15.5	10.0	12.0	5.5	12.0	5.5	14.5	6.0	20.0	9.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	13.5	22.0	14.5	25.0	19.5	30.0	24.0	28.5	23.5	25.5	22.0
2	19.5	12.0	23.0	15.5	23.0	19.5	29.0	23.5	28.5	23.5	25.5	22.0
3	19.0	14.0	23.0	16.5	23.5	18.5	28.5	22.0	28.5	23.5	25.5	21.5
4	17.0	14.5	23.0	16.5	25.0	19.0	28.5	23.0	28.5	23.0	25.5	21.5
5	15.5	14.0	22.0	16.5	25.5	20.5	28.0	22.0	29.0	23.5	25.0	21.5
6	15.5	13.5	21.5	16.5	24.5	20.5	27.0	22.0	28.0	23.5	25.5	21.0
7	17.0	12.0	19.5	16.0	25.0	20.0	27.0	23.0	28.5	24.0	25.0	21.0
8	16.5	11.5	21.0	15.0	24.0	20.0	26.5	21.5	29.5	24.5	25.0	21.0
9	17.0	11.0	21.5	15.0	22.0	19.0	27.0	22.0	30.0	25.0	24.5	21.0
10	16.5	12.0	23.0	16.0	21.0	16.0	28.0	21.5	29.0	24.5	23.5	20.0
11	15.0	12.0	23.5	16.5	23.0	17.0	29.0	22.0	27.0	24.0	22.0	19.5
12	12.0	10.5	24.5	18.0	24.5	19.0	30.0	22.0	26.5	22.0	23.0	19.0
13	14.5	9.0	25.0	18.5	25.0	20.0	30.0	24.0	26.0	22.0	23.0	19.0
14	16.0	10.0	24.5	18.5	25.5	20.5	30.5	24.0	25.0	21.0	23.5	19.0
15	17.0	11.5	23.5	18.0	25.5	20.5	29.5	22.0	23.5	20.0	24.0	19.5
16	18.5	13.0	21.0	17.0	25.5	20.0	30.0	23.5	22.0	20.0	24.0	20.0
17	18.0	13.0	22.0	16.0	26.0	20.5	30.0	25.0	24.0	19.0	23.0	19.5
18	16.0	10.5	22.0	16.5	26.5	21.0	29.5	25.0	25.0	20.5	21.5	19.0
19	17.0	11.0	20.5	17.0	26.5	21.0	28.5	24.0	24.5	21.0	21.5	18.5
20	18.5	12.0	18.0	16.0	26.5	20.5	27.0	23.5	25.5	21.5	22.0	18.5
21	19.5	13.0	17.0	15.5	26.0	21.0	26.5	21.5	26.5	21.5	21.5	18.5
22	19.5	13.5	21.5	14.5	25.5	20.5	27.0	22.0	27.0	22.0	23.0	19.0
23	18.0	13.5	23.0	16.0	23.5	20.0	27.0	21.0	26.0	22.0	20.5	18.5
24	16.0	13.0	23.0	16.5	25.0	19.0	28.0	21.0	26.5	22.0	21.5	18.0
25	19.0	11.5	23.5	17.0	25.5	20.0	26.5	21.5	26.0	22.0	19.0	18.0
26	20.0	13.5	24.0	18.0	26.5	20.5	27.0	21.5	26.5	23.0	19.0	18.0
27	21.0	14.0	24.5	19.0	28.0	21.0	28.0	23.0	27.0	23.5	21.0	18.5
28	19.0	13.5	24.5	19.0	28.5	22.0	28.5	23.0	26.5	23.5	22.0	18.5
29	18.0	11.5	24.5	19.5	29.0	23.0	26.5	24.0	26.5	23.5	22.0	18.5
30	20.0	13.0	24.5	19.0	30.0	23.5	28.0	23.5	26.5	24.0	22.0	19.0
31	---	---	25.0	19.0	---	---	28.5	23.0	26.5	23.5	---	---
MONTH	21.0	9.0	25.0	14.5	30.0	16.0	30.5	21.0	30.0	19.0	25.5	18.0

11453500 PUTAH CREEK NEAR GUENOC, CALIF.--Continued

SUSPENDED SEDIMENT DISCHARGE MEASUREMENTS,
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.					
13...	1640	20.5	.33	6	.01
NOV.					
11...	1145	14.5	1.5	3	.01
29...	1245	14.0	1.7	1	.00
JAN.					
03...	1600	7.5	149	4	1.6
FEB.					
02...	1200	6.5	102	1	.28
MAR.					
06...	1230	14.0	122	2	.66
APR.					
03...	1130	16.5	45	3	.36
MAY					
01...	1145	16.5	51	2	.28
JUNE					
12...	1145	23.0	7.5	4	.08
JULY					
06...	0835	22.0	2.2	2	.01
AUG.					
07...	1210	26.0	2.5	3	.02
31...	1035	23.5	1.6	2	.01

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT.								
13...	1635	20.5	1	.33	--	1	4	12
13...	1640	20.5	1	.33	--	--	2	9
13...	1645	20.5	1	.33	--	--	2	10
13...	1650	20.5	1	.33	--	--	4	10
13...	1655	20.5	1	.33	5	19	66	93
MAY								
01...	1150	16.5	1	51	--	1	3	16
01...	1155	16.5	1	51	--	1	2	4
01...	1200	16.5	1	51	--	--	1	2
01...	1205	16.5	1	51	1	3	6	10
01...	1210	16.5	1	51	--	--	1	1
01...	1215	16.5	1	51	13	22	75	98

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	BED MAT. SIEVE DIAM. % FINER THAN 128 MM
OCT.								
13...	20	30	41	52	68	86	100	--
13...	14	21	33	53	82	100	--	--
13...	14	17	26	51	79	100	--	--
13...	13	18	29	51	81	100	--	--
13...	100	--	--	--	--	--	--	--
MAY								
01...	26	30	33	40	46	53	67	100
01...	15	41	74	88	94	100	--	--
01...	5	15	29	52	85	100	--	--
01...	15	25	46	65	78	100	--	--
01...	2	2	4	9	23	37	100	--
01...	100	--	--	--	--	--	--	--

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 upstream from mouth, 5.3 miles southwest of Knoxville, and 11.2 miles east of Middletown.

DRAINAGE AREA.--37.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1972.
Sediment records: October 1970 to September 1972.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 84 mg/l Feb. 5; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 35 tons Feb. 5; minimum daily, 0 tons on many days.

Period of record:
Sediment concentrations: Maximum daily, 441 mg/l Nov. 28, 1970; minimum daily, no flow for many days in 1972.
Sediment discharge: Maximum daily, 1,420 tons Nov. 28, 1970; minimum daily, 0 tons on many days each year.

REMARKS.--No flow June 17 to Sept. 30. Sediment table omitted for period July 1 to Sept. 30.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/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)	BICARBONATE (HCO3) (MG/L)
JAN.										
10...	1155	1.9	28	20	0	17	120	21	.6	437
MAR.										
06...	1400	3.5	31	20	0	18	110	22	1.0	525

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 NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
JAN.										
10...	97	520	18	34	.0	1.2	.14	.18	.16	.30
MAR.										
06...	2	434	20	24	.0	.00	.20	.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
JAN.									
10...	1.5	.02	.00	551	.75	2.89	540	16	8
MAR.									
06...	--	.04	.01	487	.66	4.64	500	64	9

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JAN.									
10...	.4	931	8.5	3.5	7	300	220	.1	8
MAR.									
06...	.4	859	8.6	17.5	1	460	75	.2	60

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.								
15...	1230	.45	--	960	--	14.5	--	--
NOV.								
03...	1040	.77	--	1010	--	8.5	--	--
DEC.								
01...	1520	1.4	--	800	--	8.0	--	--
JAN.								
10...	1200	1.9	489	940	8.5	3.5	13.6	102
FEB.								
04...	1220	30	--	680	--	5.5	--	--
MAR.								
06...	1245	3.5	467	790	8.6	15.5	9.1	91
APR.								
06...	1125	3.2	--	830	--	16.0	--	--
MAY								
05...	1230	1.3	--	890	--	19.5	--	--

11453550 HUNTING CREEK NEAR KNOXVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	21	.05	.72	1	0	1.4	3	.01
2	.65	18	.03	.72	2	0	2.9	29	.29
3	.58	18	.03	.72	2	0	4.0	26	.28
4	.58	14	.02	.80	2	0	3.6	10	.10
5	.51	11	.02	.80	2	0	2.6	8	.06
6	.45	11	.01	.72	2	0	2.3	8	.05
7	.45	10	.01	.72	2	0	1.7	8	.04
8	.45	10	.01	.72	2	0	1.6	8	.03
9	.45	9	.01	.72	2	0	1.4	8	.03
10	.45	8	.01	.65	2	0	1.4	8	.03
11	.45	8	.01	1.7	10	.05	1.4	7	.03
12	.45	8	.01	3.0	4	.03	2.7	7	.05
13	.45	8	.01	3.0	3	.02	2.9	8	.06
14	.45	8	.01	2.7	4	.03	2.4	9	.06
15	.39	8	.01	1.7	3	.01	2.3	4	.02
16	.45	7	.01	1.3	3	.01	2.0	7	.04
17	.51	6	.01	1.2	4	.01	1.8	8	.04
18	.51	5	.01	1.2	5	.02	1.8	8	.04
19	.58	4	.01	1.1	5	.01	1.7	9	.04
20	.58	5	.01	1.0	7	.02	1.7	9	.04
21	.58	3	0	1.0	7	.02	1.8	9	.04
22	.58	7	.01	1.0	8	.02	10	17	.52
23	.72	7	.01	1.0	9	.02	5.2	9	.13
24	.80	7	.02	1.1	6	.02	4.2	11	.20
25	.72	4	.01	1.0	8	.02	19	22	1.1
26	.65	5	.01	1.0	7	.02	21	28	4.6
27	.65	6	.01	1.1	6	.02	96	70	28
28	.65	3	.01	1.4	8	.03	19	8	.41
29	.65	8	.01	2.1	9	.05	11	8	.24
30	.65	6	.01	1.7	7	.03	8.9	7	.17
31	.72	7	.01	--	--	--	7.1	7	.13
TOTAL	17.56	--	.41	37.59	--	.46	246.8	--	36.88

	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	10	8	.22	7.2	5	.10	4.0	2	.02
2	6.6	8	.14	5.2	5	.07	4.0	2	.02
3	4.0	8	.09	4.0	5	.05	3.8	3	.03
4	3.0	8	.06	19	6	.34	3.8	3	.03
5	2.7	8	.06	125	84	35	3.8	3	.03
6	2.4	8	.05	39	18	1.9	3.6	3	.03
7	2.4	8	.05	20	10	.54	3.0	4	.03
8	2.3	8	.05	13	5	.18	2.9	3	.02
9	2.1	8	.05	10	3	.08	2.7	2	.01
10	2.0	8	.04	8.1	3	.07	2.9	2	.02
11	2.0	8	.04	6.9	3	.06	2.9	3	.02
12	2.0	8	.04	6.3	3	.05	2.9	2	.02
13	2.0	8	.04	5.4	3	.04	2.9	3	.02
14	1.8	8	.04	5.2	4	.06	2.6	1	.01
15	1.7	7	.03	5.2	4	.06	2.3	3	.02
16	1.7	7	.03	4.7	3	.04	2.1	1	.01
17	1.7	7	.03	4.4	3	.04	2.0	2	.01
18	1.4	7	.03	4.2	4	.05	2.0	1	.01
19	1.4	7	.03	4.2	2	.02	1.8	6	.03
20	1.4	7	.03	4.0	3	.03	1.7	4	.02
21	1.6	6	.03	4.0	5	.05	1.7	6	.03
22	1.8	6	.03	4.2	3	.03	2.0	3	.02
23	2.1	6	.03	4.4	4	.05	2.3	1	.01
24	2.3	6	.04	4.9	3	.04	2.1	1	.01
25	3.6	6	.06	4.7	3	.04	2.0	1	.01
26	5.7	5	.08	4.7	3	.04	1.8	2	.01
27	8.5	5	.11	4.4	3	.04	1.7	3	.01
28	8.8	5	.12	4.2	2	.02	1.7	2	.01
29	7.5	5	.10	4.0	2	.02	1.7	4	.02
30	6.6	5	.09	--	--	--	1.6	5	.02
31	7.4	5	.10	--	--	--	1.6	6	.03
TOTAL	110.5	--	1.94	340.5	--	39.11	77.9	--	.69

11453550 HUNTING CREEK NEAR KNOXVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1.6	5	.02	1.7	5	.02	.19	9	0
2	1.6	4	.02	1.7	5	.02	.16	9	0
3	1.6	6	.03	1.6	5	.02	.19	11	.01
4	1.3	4	.01	1.4	3	.01	.16	10	0
5	1.8	2	.01	1.3	2	.01	.09	10	0
6	3.4	2	.02	1.3	5	.02	.09	10	0
7	2.9	6	.05	1.4	7	.03	.06	9	0
8	2.3	7	.04	1.4	6	.02	.04	9	0
9	2.1	7	.04	1.4	5	.02	.04	9	0
10	2.1	6	.03	1.5	5	.02	.24	5	0
11	2.8	10	.08	1.4	4	.02	.39	4	0
12	4.5	15	.18	1.2	4	.01	.35	5	0
13	7.6	30	.62	.97	4	.01	.29	8	.01
14	4.0	16	.17	.87	4	.01	.16	6	0
15	2.9	17	.13	.73	4	.01	.09	6	0
16	2.7	12	.09	.65	4	.01	.01	3	0
17	2.5	8	.05	.72	4	.01	0	0	0
18	2.1	7	.04	.72	4	.01	0	0	0
19	2.1	6	.03	.72	4	.01	0	0	0
20	2.1	5	.03	1.1	11	.03	0	0	0
21	2.0	4	.02	1.7	13	.06	0	0	0
22	2.0	4	.02	1.8	12	.06	0	0	0
23	2.0	5	.03	1.5	12	.05	0	0	0
24	1.9	6	.03	1.3	12	.04	0	0	0
25	2.1	7	.04	1.0	11	.03	0	0	0
26	2.1	9	.05	.77	11	.02	0	0	0
27	2.0	5	.03	.73	11	.02	0	0	0
28	2.0	8	.04	.60	10	.02	0	0	0
29	1.9	5	.03	.41	10	.01	0	0	0
30	1.8	5	.02	.26	10	.01	0	0	0
31	--	--	--	.23	9	.01	--	--	--
TOTAL	73.8	--	2.00	34.08	--	.65	2.55	--	.02

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 941.28
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 82.06

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT. 15...	1245	14.5	4	.45	3	6	17	36
MAR. 06...	1215	14.5	5	3.6	2	4	11	18
MAY 05...	1310	19.5	5	1.4	3	7	15	23

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT. 15...	39	48	56	69	84	90	100
MAR. 06...	26	35	46	59	72	80	100
MAY 05...	30	40	51	64	86	100	--

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 downstream from road ford, 0.2 mile upstream from mouth, 8.8 miles southeast of Knoxville, and 18 miles southeast of Middletown.

DRAINAGE AREA.--7.42 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1970 (partial-record station), October 1970 to September 1972. Sediment records: Water years 1971-72 (partial-record station).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/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)	BICARBONATE (HCO3) (MG/L)
JAN.										
11...	1155	.39	29	30	0	23	120	18	.5	641
MAR.										
03...	1255	.57	33	50	10	24	120	23	.7	657

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 NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
JAN.										
11...	0	526	27	29	.1	.36	.11	.14	.20	.31
MAR.										
03...	3	544	23	28	.1	.02	.12	.15	.20	.32

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
JAN.									
11...	.67	.10	.04	563	.77	.59	550	26	7
MAR.									
03...	.34	.05	.03	578	.79	.89	550	10	8

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JAN.									
11...	.3	981	8.3	6.5	0	70	320	.2	50
MAR.									
03...	.4	943	8.5	17.5	1	80	10	.2	490

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
DEC.								
06...	1105	.20	--	900	--	11.0	--	--
JAN.								
11...	1200	.39	510	870	8.4	6.5	11.8	96
FEB.								
02...	1150	.60	--	880	--	6.0	--	--
MAR.								
03...	1300	.57	520	830	8.5	17.5	9.7	100
APR.								
07...	1235	.30	--	880	--	19.0	--	--
MAY								
02...	1100	.07	--	855	--	21.5	--	--

11453570 ADAMS CREEK NEAR KNOXVILLE, CALIF.--Continued

SUSPENDED SEDIMENT DISCHARGE MEASUREMENTS,
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
DEC.					
06...	1145	11.0	.20	8	.00
JAN.					
11...	1315	6.5	.39	21	.02
FEB.					
02...	1300	6.0	.60	3	.00
MAR.					
03...	1245	17.5	.57	8	.01
APR.					
07...	1220	19.0	.30	2	.00
MAY					
02...	1120	21.5	.07	2	.00

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT.								
14...	1120	--	1	.00	1	3	4	6
14...	1125	--	1	.00	--	--	1	3
14...	1130	--	1	.00	1	3	7	16
14...	1135	--	1	.00	--	1	2	3
14...	1140	--	1	.00	8	17	29	42
MAR.								
03...	1310	17.5	1	.57	1	1	2	3
03...	1315	17.5	1	.57	1	2	4	10
03...	1320	17.5	1	.57	1	1	3	7
03...	1325	17.5	1	.57	--	1	2	4
03...	1330	17.5	1	.57	--	1	2	3
MAY								
02...	1135	21.5	1	.07	--	1	2	4
02...	1140	21.5	1	.07	--	1	3	11
02...	1145	21.5	1	.07	--	--	2	5
02...	1150	21.5	1	.07	2	5	11	22
02...	1155	21.5	1	.07	--	--	--	--

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT.							
14...	8	19	54	90	100	--	--
14...	9	19	31	45	62	100	--
14...	29	40	53	68	87	100	--
14...	5	6	9	14	22	29	100
14...	62	100	--	--	--	--	--
MAR.							
03...	5	17	44	72	94	100	--
03...	22	40	52	69	87	100	--
03...	10	13	15	19	24	31	100
03...	7	11	14	17	20	23	100
03...	5	8	9	13	29	43	100
MAY							
02...	9	24	42	63	90	100	--
02...	21	28	33	44	56	84	100
02...	8	12	15	25	36	53	100
02...	29	35	40	47	53	53	100
02...	--	1	1	1	7	22	100

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 downstream from road ford, 0.6 mile upstream from Adams Creek, 8.4 miles southeast of Knoxville, and 18 miles southeast of Middletown.

DRAINAGE AREA.--7.06 sq mi.

PERIOD OF RECORD.--Chemical ainalyses: Water year 1970 (partial-record station), October 1970 to September 1972. Sediment records: Water years 1971-72 (partial-record station).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/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)	BICARBONATE (HCO3) (MG/L)
JAN.										
11...	0955	.01	23	20	25	64	100	69	1.7	491
MAR.										
03...	1040	.17	26	20	10	48	91	64	1.3	559

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 NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
JAN.										
11...	0	403	210	94	.2	.55	.09	.12	.45	.54
MAR.										
03...	0	459	73	94	.1	.05	.06	.08	.16	.22

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
JAN.									
11...	1.1	.07	.02	806	1.10	.02	570	170	21
MAR.									
03...	.27	.04	.02	675	.92	.31	490	36	22

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JAN.									
11...	1.3	1330	7.8	2.0	10	2100	330	.4	60
MAR.									
03...	1.3	1100	8.3	14.5	2	2700	50	.3	430

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
JAN.								
11...	1000	.01	395	1240	7.6	2.0	10.4	75
FEB.								
02...	1130	.16	--	1040	--	5.5	--	--
MAR.								
03...	1045	.17	520	1000	8.2	14.5	10.0	97
APR.								
07...	1005	.11	--	860	--	18.5	--	--
MAY								
02...	1235	.09	--	1040	--	22.0	--	--
JULY								
11...	0620	.01	--	1180	--	17.0	--	--

11453480 NEVADA CREEK NEAR KNOXVILLE, CALIF.--Continued

SUSPENDED SEDIMENT DISCHARGE MEASUREMENTS,
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.					
11...	1030	2.0	.01	9	.00
FEB.					
02...	1120	5.5	.15	13	.01
MAR.					
03...	1040	14.5	.19	4	.00
APR.					
07...	1045	18.5	.11	3	.00
MAY					
02...	1250	22.0	.09	8	.00
JUNE					
13...	1150	23.0	.03	35	.00
JULY					
11...	0605	17.0	.01	16	.00

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT.								
14...	1020	--	1	.00	9	17	38	76
14...	1025	--	1	.00	3	5	12	30
14...	1030	--	1	.00	1	3	7	21
14...	1035	--	1	.00	1	1	2	3
14...	1040	--	1	.00	4	8	14	21
MAR.								
03...	1115	14.5	1	.19	7	13	31	63
03...	1120	14.5	1	.19	2	4	8	25
03...	1125	14.5	1	.19	2	4	15	38
03...	1130	14.5	1	.19	1	1	2	4
03...	1135	14.5	1	.19	1	2	5	8
MAY								
02...	1320	22.0	5	.09	3	7	15	29

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT.							
14...	93	98	100	--	--	--	--
14...	53	65	72	80	85	100	--
14...	49	74	89	98	100	--	--
14...	8	26	54	80	95	100	--
14...	29	42	59	77	91	100	--
MAR.							
03...	86	98	100	--	--	--	--
03...	49	66	80	88	91	100	--
03...	62	81	91	95	100	--	--
03...	9	25	54	83	100	--	--
03...	10	14	19	24	30	38	100
MAY							
02...	46	60	73	85	97	100	--

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, temperature recorder at gaging station on left bank, 1 mile downstream from Cold Canyon, 1.3 miles downstream from Monticello Dam, and 6 miles west of Winters.
DRAINAGE AREA.--574 sq mi.
PERIOD OF RECORD.--Chemical analyses: Water year 1952 (partial-record station), October 1952 to September 1966.
Water temperatures: November 1965 to September 1972.
EXTREMES, 1971-72:
Water temperatures: Maximum, 12.5°C on many days during June to September; minimum, 7.5°C Jan. 30, 31, Feb. 2.
Period of record:
Water temperatures: Maximum, 22.0°C May 21, 1967; minimum (1966-68, 1969-72), 6.5°C on several days in 1967 and 1968.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	12.0	11.5	11.0	11.0	11.0	9.0	9.0	8.5	8.0	11.0	10.0
2	12.0	11.5	11.5	11.5	11.0	10.5	9.0	9.0	8.5	7.5	10.5	10.0
3	12.0	12.0	11.5	11.0	11.0	10.5	9.0	8.5	8.0	8.0	11.0	10.5
4	12.0	12.0	11.5	11.0	10.5	10.5	8.5	8.0	8.5	8.0	11.0	10.0
5	12.0	12.0	11.5	11.5	11.0	10.5	8.5	8.5	8.5	8.5	11.0	10.0
6	12.0	12.0	12.0	11.0	11.5	11.0	8.5	8.5	9.0	8.5	11.0	10.0
7	12.0	12.0	11.5	11.0	11.5	10.5	9.0	8.5	9.0	8.5	10.5	9.5
8	12.0	12.0	11.5	10.5	10.5	10.5	9.0	8.5	9.0	9.0	10.5	10.0
9	12.0	12.0	11.5	10.5	10.5	10.5	9.0	8.5	9.5	9.0	10.0	10.0
10	12.0	12.0	11.0	10.5	11.0	10.5	8.5	8.5	9.5	9.0	10.5	10.0
11	12.0	12.0	11.0	10.0	10.5	10.0	8.5	8.5	9.5	9.0	10.5	9.5
12	12.0	12.0	11.0	11.0	10.5	10.5	8.5	8.0	9.5	9.0	10.0	10.0
13	12.0	12.0	11.5	10.5	10.5	10.5	8.5	8.0	10.0	9.0	10.0	9.5
14	12.0	12.0	11.0	10.0	10.5	10.0	8.5	8.0	9.5	9.0	10.0	9.5
15	12.0	11.5	10.0	9.5	11.0	10.0	8.5	8.0	9.0	9.0	10.0	9.5
16	12.0	11.5	10.5	10.0	10.5	10.0	8.5	8.0	9.5	8.5	10.0	9.5
17	12.0	11.5	10.5	10.5	10.5	10.0	8.5	8.0	9.5	9.0	10.5	9.5
18	12.0	12.0	11.0	10.5	10.5	10.0	8.5	8.0	9.5	9.0	10.0	9.5
19	12.0	12.0	11.0	10.5	10.5	10.0	8.5	8.0	9.0	9.0	10.0	9.5
20	12.0	12.0	11.0	11.0	10.5	10.0	8.5	8.5	10.0	9.0	10.5	9.5
21	12.0	12.0	11.0	11.0	10.5	10.0	9.0	8.5	10.0	10.0	10.0	9.5
22	12.0	11.5	11.5	10.0	10.5	10.0	9.5	9.0	10.0	9.5	10.0	9.5
23	12.0	11.5	11.5	10.0	10.5	10.5	9.5	9.5	10.0	10.0	10.0	9.5
24	12.0	12.0	11.5	11.5	10.5	10.5	9.5	8.5	10.0	10.0	10.0	9.5
25	12.0	12.0	11.5	11.5	10.5	10.5	8.5	8.0	10.0	10.0	10.5	9.5
26	12.0	11.0	11.5	11.5	10.5	9.5	8.5	8.0	10.5	10.0	10.0	9.5
27	11.5	11.0	11.5	11.5	9.5	8.5	8.0	8.0	10.5	10.5	10.5	9.5
28	11.5	10.5	11.5	11.5	9.5	8.5	8.5	8.0	10.5	10.0	10.5	9.5
29	11.5	10.5	11.5	11.5	9.5	9.0	8.5	8.0	11.0	10.5	10.0	9.5
30	11.0	11.0	11.5	11.0	9.5	9.0	8.0	7.5	---	---	10.0	9.5
31	11.5	11.0	---	---	9.5	9.0	8.0	7.5	---	---	9.5	9.5
MONTH	12.0	10.5	12.0	9.5	11.5	8.5	9.5	7.5	11.0	7.5	11.0	9.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	9.5	10.0	9.0	11.5	11.0	11.5	11.5	12.0	11.5	11.5	11.0
2	10.0	9.5	10.0	9.0	11.5	11.0	12.0	11.5	12.0	11.5	11.5	11.0
3	10.0	9.5	9.5	9.0	11.5	11.0	11.5	11.5	12.0	11.5	12.0	11.5
4	10.0	9.5	10.5	9.5	11.5	11.0	11.5	11.5	12.0	11.5	11.5	11.0
5	9.5	9.5	10.5	10.0	11.5	11.0	12.0	11.5	12.0	11.5	11.5	11.0
6	10.0	9.0	10.5	9.5	11.0	11.0	12.0	11.5	12.0	11.5	11.5	11.0
7	10.0	9.5	10.5	9.5	12.0	11.0	12.0	11.5	12.0	11.5	11.5	11.0
8	10.0	9.5	10.5	9.5	12.0	11.0	12.0	11.5	12.0	11.5	12.0	11.5
9	10.0	9.5	10.5	10.0	11.5	11.0	12.0	11.5	12.0	11.5	12.0	11.5
10	10.0	9.5	10.5	10.0	12.0	11.0	11.5	11.5	12.0	11.5	11.5	11.0
11	10.5	9.5	10.5	10.0	12.0	11.0	12.0	11.0	12.5	11.5	11.5	11.0
12	10.0	9.5	10.5	9.5	12.0	11.0	12.0	11.5	12.5	11.5	11.5	11.0
13	10.0	9.0	10.5	9.5	12.0	11.0	11.5	11.0	12.5	11.5	11.5	11.0
14	10.5	9.5	10.0	9.5	11.5	11.0	11.5	11.0	12.5	11.5	11.5	11.0
15	10.0	9.5	11.0	9.5	11.5	11.0	11.5	11.0	12.5	11.5	11.5	11.0
16	10.5	9.5	11.0	10.0	11.5	11.0	12.0	11.5	12.5	11.5	11.5	11.0
17	10.0	9.5	11.0	10.0	11.5	11.0	12.0	11.5	12.5	12.0	11.5	11.0
18	10.5	9.0	11.0	10.5	11.5	11.0	12.0	11.5	12.5	11.5	11.5	11.0
19	10.0	9.5	10.5	10.5	12.0	11.0	12.0	11.5	12.5	11.5	12.0	11.0
20	10.0	9.5	11.0	10.5	11.5	11.0	12.0	12.0	12.5	12.0	12.0	11.5
21	10.0	9.5	11.0	10.5	11.5	11.0	12.0	12.0	12.5	11.5	12.0	11.5
22	10.0	9.5	11.0	10.5	12.5	11.5	12.0	12.0	12.0	11.5	12.0	11.5
23	10.0	9.5	11.0	10.5	12.5	11.5	12.0	12.0	12.0	11.5	12.0	11.0
24	10.0	9.5	11.0	10.5	12.5	11.5	12.0	11.5	12.0	11.5	12.0	11.0
25	10.0	9.5	11.0	10.5	12.5	11.5	12.0	11.5	12.0	11.5	11.5	11.0
26	10.0	9.5	11.0	10.5	12.5	11.5	12.5	11.5	12.0	11.5	11.5	11.5
27	10.0	9.0	11.0	10.5	12.5	11.5	12.0	11.5	12.0	11.5	12.0	11.5
28	10.0	9.0	11.5	10.5	12.5	11.5	12.0	11.5	12.0	11.5	12.5	11.5
29	10.0	9.5	11.0	10.5	12.0	11.5	12.0	11.5	12.0	11.5	12.0	11.5
30	10.0	9.0	11.5	11.0	12.0	11.5	12.0	11.5	12.0	11.5	12.0	11.5
31	---	---	11.5	11.0	---	---	12.0	11.5	11.5	11.0	---	---
MONTH	10.5	9.0	11.5	9.0	12.5	11.0	12.5	11.0	12.5	11.0	12.5	11.0

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 mile upstream from highway bridge, 1.3 miles northeast of Zinfandel, and 2.5 miles east of St. Helena.
DRAINAGE AREA.--81.4 sq mi.
PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1966.
Water temperatures: October 1957 to September 1972.
Sediment records: December 1956 to June 1962.
EXTREMES.--1971-72:
Water temperatures: Maximum, 25.0°C June 30; minimum, 4.5°C Jan. 4, 5.
Period of record:
Water temperatures: Maximum (1961-63, 1964-65, 1966-69, 1970-72), 33.5°C July 18, 1968; minimum (1961-63, 1965-72), 3.5°C Dec. 14, 15, 1967.
REMARKS.--Recorder stopped Nov. 28 to Dec. 27, July 9 to Aug. 1.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	10.5	10.5	9.0	---	---	9.0	7.0	8.5	5.5	13.5	9.5
2	12.5	10.5	9.5	8.0	---	---	8.0	7.0	8.5	5.5	14.5	11.5
3	13.0	11.5	11.0	9.0	---	---	7.0	5.5	8.0	6.5	17.0	12.5
4	13.5	12.0	10.5	10.0	---	---	7.0	4.5	9.0	7.5	17.0	12.5
5	14.0	12.5	11.0	9.5	---	---	7.0	4.5	9.0	7.5	18.0	12.5
6	14.5	13.0	10.5	9.5	---	---	7.5	5.0	10.0	8.5	17.5	12.5
7	14.5	13.5	11.0	9.0	---	---	7.0	5.5	11.5	8.5	18.0	12.5
8	14.5	13.5	10.0	9.0	---	---	7.5	5.0	11.0	9.0	16.0	14.0
9	14.5	13.0	11.0	9.0	---	---	7.5	5.5	13.0	10.0	14.5	13.0
10	14.0	13.0	12.0	10.0	---	---	7.5	5.5	12.5	9.0	17.0	13.5
11	13.5	12.0	13.0	12.0	---	---	6.5	5.5	13.0	9.0	18.5	14.0
12	14.0	12.0	13.0	12.0	---	---	7.5	6.0	13.5	9.5	17.0	15.0
13	14.0	12.5	12.5	12.0	---	---	8.5	7.0	13.5	9.5	18.5	14.0
14	14.0	12.5	12.0	10.0	---	---	9.0	6.0	12.0	10.0	18.5	13.5
15	12.5	11.0	10.5	10.0	---	---	9.0	6.5	13.0	9.5	19.0	14.0
16	12.0	11.0	10.5	10.0	---	---	9.0	6.5	13.5	9.5	19.5	14.0
17	11.0	9.5	10.5	10.0	---	---	8.5	6.5	13.5	9.5	19.5	15.0
18	11.0	8.5	11.0	10.0	---	---	9.0	7.5	14.0	10.5	18.5	14.5
19	11.5	9.0	10.5	10.0	---	---	10.5	9.0	13.0	11.5	18.0	14.0
20	13.0	11.5	10.5	9.5	---	---	10.5	9.5	14.5	12.0	18.5	13.0
21	12.0	10.0	10.0	9.0	---	---	11.0	10.0	13.0	10.5	18.0	14.5
22	11.5	9.5	10.0	9.5	---	---	11.0	10.0	12.5	10.5	16.5	14.5
23	12.0	11.0	10.5	9.5	---	---	10.5	8.0	12.5	10.0	17.5	12.5
24	11.0	10.0	11.0	10.0	---	---	8.5	6.0	12.0	11.0	16.5	12.5
25	11.0	10.0	10.5	9.5	---	---	9.0	7.0	12.5	10.5	17.5	13.0
26	10.5	8.5	11.0	10.0	---	---	7.5	5.5	14.5	11.0	16.0	11.0
27	12.0	9.5	12.0	11.0	---	---	7.0	5.0	15.5	10.5	17.0	11.5
28	10.5	8.0	---	---	8.5	6.5	8.0	6.0	14.0	12.5	16.5	11.5
29	8.5	8.0	---	---	9.0	7.0	8.5	5.5	15.0	12.0	17.5	11.5
30	10.0	7.5	---	---	9.0	7.5	9.0	5.5	---	---	18.0	12.0
31	10.0	8.5	---	---	8.5	6.5	8.5	5.5	---	---	15.5	12.5
MONTH	14.5	7.5	13.0	8.0	---	---	11.0	4.5	15.5	5.5	19.5	9.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	13.5	22.0	15.0	23.0	18.5	23.5	21.5	---	---	19.5	17.0
2	19.5	13.5	22.5	16.0	22.5	18.5	22.0	20.5	20.0	18.5	19.5	17.5
3	19.5	15.5	22.5	16.5	21.5	17.5	22.5	19.5	20.0	19.0	19.5	17.5
4	18.5	16.0	19.5	16.5	22.5	18.0	22.5	19.5	19.5	18.5	19.5	17.0
5	16.5	15.5	17.5	15.5	23.5	19.5	21.5	19.5	20.0	18.0	19.5	17.0
6	17.5	14.5	17.5	15.0	23.0	20.0	21.5	20.0	20.5	18.5	19.5	17.0
7	17.5	13.0	17.5	14.5	22.0	19.5	21.0	19.5	20.5	19.0	19.5	17.0
8	17.5	13.0	19.0	14.5	21.0	18.5	21.5	19.0	20.5	19.0	18.5	16.5
9	17.5	12.5	21.0	14.5	20.0	17.5	---	---	20.5	18.5	17.5	15.5
10	16.5	13.0	21.5	15.0	19.5	15.5	---	---	20.0	18.0	17.0	14.5
11	17.0	13.0	22.5	16.0	21.0	17.0	---	---	20.0	18.0	18.0	15.5
12	14.5	11.5	23.5	17.0	22.5	18.5	---	---	19.5	17.0	17.5	15.0
13	16.5	10.0	24.0	17.5	23.0	20.0	---	---	19.5	17.0	17.5	14.5
14	18.0	11.5	24.0	18.0	23.0	20.5	---	---	19.0	16.5	17.0	15.0
15	19.0	13.0	23.0	17.5	22.5	19.5	---	---	18.5	16.0	17.5	15.0
16	19.0	14.0	21.0	17.5	22.0	19.5	---	---	18.0	16.0	17.0	15.5
17	18.0	13.0	21.5	16.0	23.0	19.5	---	---	18.5	16.0	17.0	15.5
18	17.0	12.5	21.0	16.5	23.0	20.5	---	---	18.5	16.5	16.5	14.5
19	18.0	12.0	19.5	16.5	22.0	19.0	---	---	18.5	16.5	16.5	14.5
20	19.0	12.5	17.0	15.5	22.5	19.0	---	---	19.5	17.5	16.5	14.5
21	19.5	14.0	18.0	15.5	22.0	19.5	---	---	20.0	18.0	16.5	14.5
22	19.5	14.0	21.0	15.0	21.0	18.5	---	---	20.0	18.0	17.5	15.5
23	19.5	14.5	21.0	16.0	18.5	17.5	---	---	20.0	18.0	16.0	14.5
24	18.5	15.0	21.5	16.0	20.5	17.0	---	---	20.0	17.5	16.0	14.5
25	19.5	13.5	22.0	17.0	21.5	18.5	---	---	20.5	17.5	15.5	14.0
26	21.0	15.0	21.5	16.5	22.0	19.5	---	---	20.0	17.0	16.5	15.5
27	21.5	15.5	22.0	17.0	22.5	19.5	---	---	20.0	17.5	17.5	16.0
28	20.0	15.5	22.5	17.5	23.0	19.5	---	---	20.0	17.5	17.5	15.5
29	19.0	14.0	23.5	18.0	23.5	20.0	---	---	20.0	17.5	17.5	16.0
30	20.5	14.0	23.0	18.5	25.0	21.0	---	---	20.0	17.5	17.5	16.5
31	---	---	22.5	18.0	---	---	---	---	20.0	17.5	---	---
MONTH	21.5	10.0	24.0	14.5	25.0	15.5	---	---	20.5	16.0	19.5	14.0

11460920 SALMON CREEK AT BODEGA, CALIF.

LOCATION.--Lat 38°20'54", long 122°58'45", in Estero Americano Grant, Sonoma County, at gaging station , 100 ft upstream from private road bridge, 0.3 mile upstream from small left-bank tributary, and 0.4 mile northwest of Bodega.
DRAINAGE AREA.--15.7 sq mi.
PERIOD OF RECORD.--Water temperatures: October 1964 to September 1972.
Sediment records: Water years 1971-72 (partial-record station, discontinued).
EXTREMES.--1971-72:
Water temperatures: Maximum, 19.5°C May 13; minimum, freezing point on several days during winter period.
Period of record:
Water temperatures: Maximum, 23.5°C Apr. 26, 1965; minimum (1964-66, 1967-72), freezing point on many days during winter periods.
REMARKS.--No flow Oct. 1-10, July 15-22, Aug. 1 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	7.5	2.0	6.5	2.5	6.0	0.0	8.0	1.5	10.5	4.5
2	---	---	8.0	2.5	7.5	4.5	6.0	0.5	6.0	0.0	11.5	8.5
3	---	---	9.0	2.5	5.0	3.5	5.0	0.5	5.0	2.0	14.5	9.5
4	---	---	9.5	2.5	5.0	0.5	3.5	0.0	6.0	4.0	15.5	9.0
5	---	---	9.5	2.0	6.5	2.5	4.0	2.0	8.0	5.5	17.5	8.0
6	---	---	8.0	1.5	9.0	6.5	5.0	0.0	9.5	6.0	17.0	7.5
7	---	---	7.0	2.5	6.5	1.5	4.0	0.0	11.5	5.0	15.5	7.5
8	---	---	7.0	2.0	4.0	0.0	5.0	0.0	10.5	6.5	11.5	10.5
9	---	---	6.5	2.5	8.0	3.5	5.0	0.0	14.0	8.0	11.0	10.0
10	---	---	8.5	5.0	6.0	3.5	5.5	0.0	14.0	6.5	13.5	10.0
11	---	---	10.0	7.5	5.0	1.0	5.5	0.5	13.0	5.0	16.5	10.5
12	---	---	10.5	8.5	7.5	3.5	7.0	2.5	12.0	5.0	15.5	11.0
13	11.5	5.0	11.0	7.0	6.0	1.0	8.5	4.0	11.5	5.0	17.0	11.0
14	10.0	5.5	8.5	4.0	5.0	1.0	7.5	2.0	10.5	5.5	17.0	9.0
15	8.5	4.5	8.5	2.5	4.5	0.5	8.0	2.5	11.5	5.5	19.0	8.5
16	9.0	4.0	9.5	4.0	4.0	0.0	7.5	1.5	13.0	4.5	18.5	8.5
17	7.5	3.0	9.0	2.5	4.0	0.0	6.0	2.5	13.0	4.5	14.0	11.0
18	7.5	3.0	8.5	2.5	4.5	0.0	7.0	5.0	11.0	6.5	15.5	9.0
19	6.5	3.0	8.5	3.0	4.0	0.0	8.5	6.5	11.5	9.0	14.5	7.0
20	10.5	5.5	10.0	3.5	5.0	1.5	9.0	8.0	14.0	9.0	13.5	8.0
21	10.5	5.5	7.5	3.5	4.0	2.0	9.5	8.5	11.0	6.0	14.0	9.5
22	9.5	4.0	9.0	5.5	8.0	4.0	9.5	8.5	12.0	6.5	14.0	9.5
23	9.0	5.5	10.0	6.0	7.5	4.5	10.5	5.5	11.0	9.0	14.0	6.5
24	9.0	4.0	9.5	7.0	7.0	5.0	8.0	3.0	11.0	9.5	11.0	7.0
25	8.5	2.5	9.5	5.5	5.5	3.0	9.5	4.0	10.5	8.0	13.0	6.0
26	8.5	3.5	8.5	6.0	4.0	2.0	6.0	2.0	12.5	8.0	12.0	4.0
27	8.0	3.5	9.0	7.5	7.5	3.5	7.5	3.0	14.5	8.0	12.0	4.0
28	8.5	3.0	10.0	9.0	7.5	3.0	8.0	3.5	11.0	10.0	12.0	4.5
29	7.5	1.0	10.5	7.5	7.5	3.5	8.0	1.5	11.5	7.0	12.5	5.0
30	5.0	1.0	9.0	4.5	7.5	3.5	8.5	0.0	---	---	13.0	5.5
31	7.0	2.0	---	---	6.5	1.0	8.0	0.0	---	---	13.0	9.5
MONTH	---	---	11.0	1.5	9.0	0.0	10.5	0.0	14.5	0.0	19.0	4.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	10.0	18.0	9.5	16.5	12.5	15.0	13.0	---	---	---	---
2	16.0	11.5	18.5	11.0	17.0	13.0	14.5	13.0	---	---	---	---
3	16.0	12.0	16.0	12.0	15.5	12.0	16.0	13.5	---	---	---	---
4	15.0	13.0	13.5	11.5	16.0	12.0	16.0	13.0	---	---	---	---
5	14.0	11.5	12.0	10.5	18.0	12.0	15.0	13.0	---	---	---	---
6	15.5	10.5	12.0	9.5	16.5	13.5	15.5	13.0	---	---	---	---
7	15.0	9.0	14.0	10.0	15.5	13.5	14.5	11.0	---	---	---	---
8	13.5	7.0	15.5	12.0	15.5	13.0	14.0	9.5	---	---	---	---
9	13.0	7.0	15.0	9.0	15.5	13.0	15.0	10.5	---	---	---	---
10	13.5	7.5	15.5	9.0	15.0	11.5	15.0	11.0	---	---	---	---
11	14.5	9.5	17.5	10.5	15.0	10.5	16.0	10.5	---	---	---	---
12	11.0	7.0	19.0	11.5	17.0	11.0	16.5	10.5	---	---	---	---
13	18.5	4.0	19.5	13.0	17.0	11.5	17.0	11.0	---	---	---	---
14	16.5	4.5	19.0	14.0	16.0	11.5	18.0	11.0	---	---	---	---
15	16.5	6.0	18.0	14.0	16.0	12.0	---	---	---	---	---	---
16	15.0	9.5	16.0	14.0	15.0	11.0	---	---	---	---	---	---
17	14.0	6.5	15.0	12.0	15.5	10.5	---	---	---	---	---	---
18	14.0	5.5	15.5	10.0	14.0	12.0	---	---	---	---	---	---
19	14.0	7.5	13.0	11.0	13.5	12.0	---	---	---	---	---	---
20	15.0	8.0	13.0	11.5	15.0	12.0	---	---	---	---	---	---
21	15.0	9.0	16.0	12.0	15.0	12.0	---	---	---	---	---	---
22	14.5	8.0	15.5	12.0	13.0	12.0	---	---	---	---	---	---
23	13.0	9.0	15.5	12.0	14.5	11.5	14.5	13.0	---	---	---	---
24	15.5	9.5	15.0	11.0	15.0	10.0	15.5	12.0	---	---	---	---
25	15.5	7.5	15.0	12.5	15.0	11.0	15.0	11.0	---	---	---	---
26	18.0	9.0	15.0	13.0	15.0	12.5	15.0	11.0	---	---	---	---
27	17.0	10.5	14.0	12.0	15.5	12.5	15.5	10.0	---	---	---	---
28	14.0	11.0	15.0	12.0	15.0	12.0	16.0	11.5	---	---	---	---
29	13.5	7.0	16.5	12.0	16.5	12.0	15.0	11.5	---	---	---	---
30	16.0	8.0	16.5	12.5	18.0	12.0	15.0	12.0	---	---	---	---
31	---	---	16.0	13.0	---	---	15.5	10.5	---	---	---	---
MONTH	18.5	4.0	19.5	9.0	18.0	10.0	---	---	---	---	---	---

11460920 SALMON CREEK AT BODEGA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
OCT.							
12...	1420	12.0	.08	4	.00	--	--
NOV.							
02...	1215	7.5	.46	3	.00	--	--
DEC.							
06...	1430	9.0	1.6	8	.03	--	--
JAN.							
05...	1130	2.0	3.2	5	.04	--	--
25...	0930	8.0	115	288	89	26	44
25...	1115	--	133	389	140	--	--
25...	1245	--	99	266	71	24	48
25...	1530	--	69	119	22	--	--
FEB.							
02...	1200	3.0	7.9	6	.13	--	--
MAR.							
03...	1600	14.5	25	16	1.1	--	--
APR.							
04...	1425	14.5	3.1	9	.08	--	--
MAY							
02...	1100	13.5	1.9	8	.04	--	--

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
OCT.						
12...	--	--	--	--	--	--
NOV.						
02...	--	--	--	--	--	--
DEC.						
06...	--	--	--	--	--	--
JAN.						
05...	--	--	--	--	--	--
25...	61	79	87	98	99	100
25...	--	--	--	--	--	--
25...	68	80	88	97	98	100
25...	--	--	--	94	97	100
FEB.						
02...	--	--	--	--	--	--
MAR.						
03...	--	--	--	--	--	--
APR.						
04...	--	--	--	--	--	--
MAY						
02...	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT.								
12...	1410	12.0	1	.08	19	65	95	98
12...	1415	12.0	1	.08	4	15	23	30
12...	1420	12.0	1	.08	1	5	11	26
12...	1425	12.0	1	.08	5	25	62	95
MAY								
02...	1050	13.5	1	1.9	6	22	54	93
02...	1055	13.5	1	1.9	1	2	6	19
02...	1100	13.5	1	1.9	--	1	4	23
02...	1105	13.5	1	1.9	12	36	66	77

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT.							
12...	100	--	--	--	--	--	--
12...	35	39	45	53	65	84	100
12...	37	50	61	74	87	100	--
12...	99	100	--	--	--	--	--
MAY							
02...	98	99	100	--	--	--	--
02...	38	53	61	75	87	100	--
02...	48	65	77	87	97	100	--
02...	85	96	100	--	--	--	--

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, temperature recorder at gaging station on left bank, 0.1 mile downstream from Cold Creek, and 3.9 miles east of Calpella.
DRAINAGE AREA.--92.2 sq mi.
PERIOD OF RECORD.--Chemical analyses: Water years 1951-52 (partial-record station), October 1952 to September 1958.
Water temperatures: March 1964 to September 1972.
Sediment records: March to September 1964, October 1966 to September 1968.
Turbidity: Water years 1964-71 (partial-record station).
EXTREMES.--1971-72:
Water temperatures: Maximum, 29.0°C July 1; minimum, 3.5°C Jan. 4, 5.
Period of record:
Water temperatures: Maximum (1965-66, 1967-72), 29.0°C Aug. 11, 1971, July 1, 1972; minimum (1965-67, 1968-70, 1971-72), 3.5°C Jan. 4, 5, 1972.
REMARKS.--Probe inoperative Oct. 20, 21, 29, 30; recorder stopped Apr. 29 to May 1, Aug. 31 to Sept. 6, Sept. 26-30; range in temperature, 10.5°C to 13.5°C, 17.0°C to 25.5°C, 17.5°C to 19.0°C, respectively.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	10.0	---	---	22.5	16.0	29.0	21.0	19.0	16.5	---	---
2	12.5	10.5	16.0	13.5	19.5	16.0	26.5	19.0	19.5	17.0	---	---
3	12.5	11.0	16.5	14.0	21.0	14.5	26.0	19.0	19.0	17.5	---	---
4	12.5	11.5	17.0	14.5	22.0	15.5	26.0	19.0	19.5	17.5	---	---
5	12.5	11.0	16.5	14.5	23.0	17.0	26.0	18.0	20.0	17.5	---	---
6	11.5	11.0	16.0	14.0	23.0	18.0	27.0	18.0	19.5	17.5	---	---
7	11.5	10.5	14.5	13.5	23.0	18.0	25.5	16.5	19.5	17.5	20.0	18.5
8	11.0	9.5	16.0	12.5	22.5	17.5	25.5	15.5	23.0	17.5	20.0	18.5
9	11.5	9.0	16.0	13.0	19.0	15.5	24.5	17.0	22.5	19.0	20.0	18.5
10	12.0	10.0	16.0	14.0	17.5	13.5	24.5	16.5	23.0	18.5	19.0	18.0
11	11.5	10.5	16.5	14.5	19.5	12.5	22.0	19.0	23.0	18.0	19.0	18.0
12	10.5	9.0	17.0	15.0	21.5	14.5	21.0	18.5	22.0	17.0	19.0	17.5
13	12.0	8.0	17.0	15.0	22.5	15.5	20.5	18.0	21.0	16.0	19.5	18.0
14	12.0	9.0	17.0	15.5	23.0	16.5	20.5	18.0	20.5	16.5	20.0	18.5
15	12.5	10.5	18.0	15.0	22.5	16.5	21.0	18.5	20.0	15.0	20.0	18.5
16	12.5	10.5	15.5	13.5	22.5	16.0	21.0	18.5	18.0	16.0	20.5	19.0
17	12.5	10.0	16.0	13.0	23.0	16.5	20.5	18.5	19.5	16.0	20.0	19.0
18	12.0	9.5	16.5	14.0	24.0	18.0	20.5	18.5	21.0	16.5	20.0	18.5
19	11.5	9.5	15.5	13.5	24.0	18.0	19.5	17.0	20.5	16.0	19.5	18.5
20	12.0	10.0	14.0	12.5	25.0	18.0	19.5	17.5	21.0	17.0	19.0	18.0
21	13.0	11.0	13.0	12.5	24.5	17.0	19.5	17.0	22.0	17.0	19.5	18.0
22	12.5	11.0	15.5	12.5	24.5	17.0	19.5	17.5	22.5	17.0	20.0	19.0
23	12.0	11.0	17.0	14.5	22.5	16.5	19.0	17.0	22.0	17.0	19.0	17.0
24	11.5	10.5	18.0	15.0	23.5	14.0	19.0	17.0	22.0	16.5	18.5	16.5
25	12.5	10.0	19.0	15.5	24.5	15.0	19.0	17.0	22.0	17.5	17.0	16.5
26	13.5	11.5	19.0	15.5	26.0	16.5	19.0	16.5	22.5	17.5	---	---
27	14.5	12.5	20.5	15.0	25.5	17.5	19.0	17.0	22.5	18.0	---	---
28	13.5	12.0	21.0	15.5	26.5	18.5	19.5	17.0	23.0	18.5	---	---
29	---	---	22.0	16.0	26.5	19.0	18.5	16.0	23.0	18.5	---	---
30	---	---	21.5	15.0	28.5	20.5	18.5	16.0	22.5	17.5	---	---
31	---	---	22.0	15.5	---	---	19.0	16.5	---	---	---	---
MONTH	14.5	8.0	22.0	12.5	28.5	12.5	29.0	15.5	23.0	15.0	---	---

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 mile downstream from McNab Creek, and 4 miles north of Hopland.
DRAINAGE AREA.--362 sq mi.
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 September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 22.5°C on several days during August; minimum, 5.0°C Feb. 2.
Period of record:
Water temperatures: Maximum (1965-66, 1968-69, 1971-72), 24.0°C on several days in 1969; minimum (1965-68, 1969-70, 1971-72), 5.0°C Feb. 2, 1972.
REMARKS.--Recorder stopped May 27 to June 2, June 7-23, July 13 to Aug. 9.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	16.5	14.5	12.0	10.5	9.5	8.5	7.5	7.0	5.5	9.5	8.0
2	20.0	16.5	14.5	12.5	10.5	9.5	8.5	7.5	7.0	5.0	10.5	9.0
3	20.5	17.0	14.0	12.0	9.5	8.5	8.5	7.5	7.5	6.5	11.5	10.5
4	21.0	17.5	14.0	12.0	8.5	7.0	7.5	6.0	8.0	7.5	12.0	10.0
5	20.5	17.5	14.0	12.5	10.5	8.0	8.0	5.5	8.0	7.5	12.0	9.5
6	20.5	17.5	13.5	12.0	10.5	9.5	8.0	6.5	9.0	8.0	13.0	9.5
7	20.5	17.5	14.0	12.0	9.5	7.5	8.0	7.0	9.0	8.0	11.5	9.5
8	20.5	17.5	13.0	12.0	8.5	7.5	8.0	7.0	8.5	8.0	11.5	10.0
9	20.5	17.5	13.0	12.0	10.5	8.5	8.0	6.5	9.0	7.5	11.5	10.5
10	20.0	17.0	14.0	13.0	10.0	8.0	8.5	7.0	9.5	7.5	12.0	10.0
11	20.0	17.0	14.0	13.5	8.5	7.5	7.5	6.0	9.5	7.5	12.5	10.5
12	19.5	17.5	13.5	13.0	8.0	7.5	8.0	7.0	9.5	7.5	12.5	11.0
13	20.0	17.5	13.0	12.0	7.5	6.5	7.5	6.5	9.5	8.0	13.5	11.5
14	19.5	17.5	12.0	11.0	8.0	7.0	7.5	6.0	9.0	8.0	13.5	11.5
15	17.5	16.0	12.0	10.5	8.0	7.0	7.5	6.0	9.5	7.5	14.0	12.0
16	17.5	15.0	12.0	10.5	7.5	6.5	7.5	5.5	9.5	7.5	14.5	12.5
17	17.0	15.0	12.0	11.0	8.0	7.0	7.5	6.0	9.5	7.5	14.5	12.5
18	16.5	15.0	12.0	11.0	8.0	7.0	8.0	6.5	9.5	8.0	14.5	12.0
19	16.5	15.5	12.0	10.5	8.0	7.0	8.0	7.5	9.5	9.0	13.0	11.5
20	18.0	16.0	12.0	11.0	7.5	6.5	8.5	7.5	10.5	9.0	13.5	11.0
21	17.0	14.5	12.0	11.0	8.0	7.0	9.0	8.0	9.5	7.5	13.5	12.0
22	16.5	14.0	12.5	11.0	8.0	7.5	10.0	9.0	9.0	8.0	12.5	11.5
23	16.5	15.0	12.0	11.5	8.0	7.0	10.0	7.5	9.0	8.0	13.0	10.5
24	15.5	13.5	13.5	12.0	8.5	7.5	7.5	7.0	9.0	8.5	12.0	10.5
25	15.5	13.0	12.5	11.5	8.0	6.5	8.0	7.5	9.0	8.0	12.0	10.0
26	15.5	14.0	12.5	12.0	6.5	6.5	7.5	6.5	10.0	8.5	12.0	9.5
27	15.5	13.5	12.5	12.0	7.0	6.0	6.5	6.0	10.5	9.0	13.0	10.0
28	14.0	12.0	12.5	12.0	7.0	6.5	7.5	6.5	11.0	9.5	13.0	10.5
29	14.0	11.5	12.5	11.5	8.5	7.0	7.5	6.5	11.0	9.5	13.5	10.5
30	13.5	12.5	11.5	10.0	9.0	8.5	7.5	5.5	---	---	14.5	11.0
31	14.5	12.5	---	---	9.0	8.0	7.5	5.5	---	---	13.5	12.5
MONTH	21.0	11.5	14.5	10.0	10.5	6.0	10.0	5.5	11.0	5.0	14.5	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.5	12.5	14.5	10.5	---	---	19.5	15.5	---	---	22.0	19.0
2	17.0	14.0	15.0	10.5	---	---	19.0	15.0	---	---	21.5	18.5
3	16.5	14.0	15.0	11.0	18.0	13.0	19.0	14.5	---	---	22.0	19.0
4	16.0	14.0	14.5	11.0	19.0	14.5	19.0	14.5	---	---	22.0	19.0
5	14.5	13.5	15.0	11.5	19.0	16.0	19.0	14.5	---	---	22.0	19.0
6	14.0	13.0	17.0	13.0	18.5	15.0	19.5	14.5	---	---	21.5	18.0
7	15.5	12.5	16.0	14.0	---	---	18.5	15.0	---	---	22.0	18.5
8	14.5	12.0	18.0	13.5	---	---	19.0	14.5	---	---	21.5	18.5
9	15.0	11.0	18.5	13.5	---	---	19.0	15.0	---	---	22.0	18.5
10	15.5	12.0	19.5	13.0	---	---	19.5	14.5	21.0	16.5	21.5	17.5
11	14.0	12.5	18.5	15.0	---	---	20.0	15.5	20.5	16.5	21.0	17.5
12	12.5	10.5	18.5	15.0	---	---	19.5	16.0	20.5	16.0	21.5	17.0
13	12.5	8.5	16.5	12.0	---	---	---	---	20.0	16.0	21.5	17.5
14	13.5	10.5	16.0	12.0	---	---	---	---	20.0	16.0	21.5	17.5
15	13.5	10.5	16.0	12.0	---	---	---	---	19.5	16.0	21.5	18.0
16	13.5	10.5	15.0	12.0	---	---	---	---	18.0	16.5	21.0	18.0
17	13.0	9.5	15.5	11.0	---	---	---	---	20.0	16.5	21.0	18.0
18	13.0	10.0	16.0	11.5	---	---	---	---	20.5	17.5	21.0	18.0
19	13.5	10.0	15.0	12.5	---	---	---	---	20.0	17.0	21.5	18.5
20	14.0	10.0	13.0	12.0	---	---	---	---	21.5	18.0	21.0	17.5
21	14.5	10.5	13.0	12.0	---	---	---	---	21.5	18.0	21.5	18.0
22	14.0	10.5	16.5	12.0	---	---	---	---	22.0	18.0	21.5	18.0
23	12.5	10.5	16.0	12.5	---	---	---	---	22.0	18.0	20.0	17.0
24	12.5	10.5	16.5	12.0	18.5	14.5	---	---	22.0	18.0	20.5	17.5
25	14.0	10.0	17.0	12.5	18.5	14.5	---	---	22.5	18.5	18.5	17.0
26	14.5	10.5	17.0	13.0	19.0	15.0	---	---	22.5	18.5	20.0	18.5
27	14.5	10.5	---	---	19.5	15.5	---	---	22.5	18.5	21.0	18.5
28	13.5	10.5	---	---	19.5	15.5	---	---	22.0	19.0	21.0	18.5
29	13.5	9.5	---	---	19.5	15.0	---	---	22.5	19.0	21.0	18.0
30	14.0	9.5	---	---	19.5	16.0	---	---	22.5	19.0	21.0	18.0
31	---	---	---	---	---	---	---	---	22.5	18.5	---	---
MONTH	17.0	8.5	19.5	10.5	---	---	---	---	---	---	22.0	17.0

11463200 BIG SULPHUR CREEK NEAR CLOVERDALE, CALIF.

LOCATION.--Lat 38°49'21", long 122°59'07", in SW¼SW¼ sec.4, T.11 N., R.10 W., Sonoma County, temperature recorder at gaging station on right bank, 0.5 mile downstream from small left-bank tributary, 1.9 miles upstream from mouth, and 2.0 miles northeast of Cloverdale.
DRAINAGE AREA.--82.3 sq mi.
PERIOD OF RECORD.--Water temperatures: October 1966 to September 1968, October 1970 to September 1972 (discontinued).
Sediment records: Water years 1964-66 (partial-record station), October 1966 to September 1968.
Turbidity: Water years 1966-68 (partial-record station).
EXTREMES.--1971-72:
Water temperatures: Maximum, 31.0°C July 14; minimum, 3.0°C Feb. 2.
Period of record:
Water temperatures (1970-72): Maximum, 31.0°C July 14, 1972; minimum (1971-72), 3.0°C Feb. 2, 1972.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	12.5	12.5	9.5	9.5	7.0	9.0	6.5	6.0	4.0	10.5	8.0
2	17.0	13.0	12.5	9.5	9.5	8.0	9.0	6.5	6.0	3.0	12.0	10.0
3	17.5	13.5	12.5	9.5	8.5	7.0	8.0	4.5	7.0	4.5	14.0	11.0
4	18.0	14.5	12.5	9.5	8.5	6.0	5.5	3.5	8.0	6.5	15.0	10.0
5	18.5	15.0	12.5	9.5	10.5	7.0	5.5	3.5	8.0	7.0	15.5	10.0
6	19.0	15.0	11.5	8.5	10.5	7.0	6.0	4.0	9.5	8.0	15.0	9.5
7	19.0	15.5	11.5	8.5	7.0	5.0	6.5	4.5	9.5	7.0	16.0	10.5
8	19.5	15.5	11.0	8.5	8.0	4.0	6.0	4.0	10.0	7.5	13.0	12.0
9	19.0	15.5	12.0	10.0	9.0	7.0	6.0	4.0	11.0	8.0	12.0	11.5
10	18.5	14.5	13.0	11.5	8.0	6.5	6.5	4.0	11.0	7.5	13.5	11.5
11	18.0	14.5	14.0	12.5	8.0	6.0	7.0	4.0	11.0	7.5	16.0	12.0
12	18.0	15.0	12.5	12.0	8.0	6.0	7.5	5.5	11.5	7.5	16.0	12.5
13	18.5	15.0	12.0	9.5	7.0	4.5	8.0	5.5	11.5	8.0	16.5	12.0
14	18.0	14.5	10.0	8.5	7.5	4.0	7.5	5.0	10.0	8.0	16.0	11.0
15	16.0	13.0	9.5	7.5	6.5	4.5	7.5	5.0	11.5	7.5	17.5	11.5
16	16.0	12.5	9.5	8.0	6.0	3.5	7.5	5.0	11.5	8.0	18.5	12.0
17	15.0	12.0	9.5	8.0	6.0	4.0	8.0	5.0	11.5	7.5	18.5	13.0
18	15.0	11.5	10.0	8.0	6.5	4.0	8.5	6.0	12.0	8.5	17.0	12.0
19	14.5	12.0	10.5	8.5	5.5	4.0	9.5	8.0	11.5	10.0	15.5	11.0
20	16.0	14.0	10.5	8.5	5.0	3.5	10.0	9.0	13.5	10.5	16.0	10.5
21	15.5	12.5	10.0	8.5	7.0	4.5	10.5	10.0	11.0	8.0	16.5	12.0
22	15.0	12.5	10.5	8.5	10.0	7.0	11.0	10.0	10.5	9.0	14.0	11.0
23	15.0	13.0	11.0	9.0	9.0	8.0	10.5	7.0	9.5	8.5	15.0	9.5
24	14.0	11.5	12.0	10.0	9.0	8.0	8.0	5.5	10.5	9.0	12.0	10.0
25	14.0	11.0	10.0	8.5	8.0	6.5	8.5	6.5	10.5	9.0	13.5	9.5
26	14.5	11.0	11.0	9.5	7.5	6.5	6.5	5.0	12.0	10.0	12.5	7.0
27	13.5	10.5	11.5	10.0	8.0	6.5	6.0	4.0	13.5	9.5	13.5	7.5
28	12.0	9.0	12.0	11.0	8.0	6.0	7.5	5.0	12.5	11.0	14.0	8.0
29	11.0	8.0	11.5	10.0	9.0	7.5	7.0	4.5	12.0	9.0	14.5	8.0
30	12.0	9.0	10.0	8.0	9.0	7.0	7.0	3.5	---	---	15.5	9.0
31	12.0	9.5	---	---	7.5	5.5	7.0	4.0	---	---	13.5	10.0
MONTH	19.5	8.0	14.0	7.5	10.5	3.5	11.0	3.5	13.5	3.0	18.5	7.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	11.5	21.0	10.0	25.5	18.0	29.5	21.0	26.5	19.0	25.5	19.0
2	19.0	12.5	22.0	14.0	23.5	18.0	27.0	20.5	27.0	19.0	24.0	19.0
3	18.5	13.5	22.0	14.5	25.0	17.0	28.0	20.0	26.0	19.0	24.0	19.0
4	17.0	10.0	19.5	15.0	26.5	17.5	28.0	19.5	26.0	19.5	24.5	18.5
5	14.5	12.5	19.5	14.5	27.5	19.0	27.5	19.5	27.0	19.0	24.5	18.5
6	14.5	12.0	19.5	14.0	26.0	19.5	28.0	19.5	27.0	20.0	24.5	18.0
7	15.5	10.5	17.0	14.0	26.0	19.0	28.0	18.5	27.0	20.5	24.5	18.5
8	13.5	9.5	19.5	13.0	25.0	18.5	27.5	18.0	27.0	20.0	24.5	18.5
9	15.0	9.0	20.5	13.0	21.0	18.5	27.5	18.5	26.5	20.0	24.0	18.0
10	15.0	10.0	22.0	13.5	21.5	15.0	28.0	18.5	27.0	19.5	23.0	17.0
11	12.0	10.0	23.0	14.5	23.5	15.0	29.0	19.5	26.0	19.0	22.0	17.0
12	11.0	9.0	24.0	15.5	25.5	17.0	30.5	21.0	26.0	19.0	22.5	16.5
13	13.5	7.5	24.5	16.5	26.5	18.0	30.0	21.0	25.0	18.5	22.5	16.0
14	15.5	8.5	24.5	17.0	26.5	18.5	31.0	21.5	24.5	18.5	22.0	16.0
15	18.0	10.0	24.0	16.5	27.0	19.0	30.5	22.0	23.5	17.5	22.0	16.5
16	17.0	11.0	19.5	16.5	26.5	18.0	28.5	21.0	21.0	18.0	21.0	17.0
17	16.0	9.5	22.0	14.5	28.0	18.5	27.5	21.0	23.0	17.0	20.0	16.5
18	15.5	9.0	21.5	14.5	28.0	19.5	27.0	20.5	24.0	18.0	21.0	15.5
19	16.0	8.5	18.0	10.0	26.0	19.5	27.0	20.0	23.5	18.0	21.5	16.0
20	17.0	9.5	15.5	14.0	27.5	19.5	22.5	19.5	26.0	19.0	20.5	15.0
21	18.0	10.5	15.5	13.5	27.5	19.0	25.0	19.5	26.5	18.5	21.0	15.0
22	18.0	11.0	21.5	12.0	21.0	18.5	26.5	18.5	26.5	19.5	21.5	17.0
23	16.0	12.0	22.5	14.0	24.0	17.5	26.0	19.0	26.0	19.0	20.0	14.5
24	16.0	11.5	23.0	14.5	26.0	16.5	26.5	19.0	25.5	19.0	19.5	14.5
25	17.5	10.0	24.0	15.5	27.0	17.5	27.0	18.5	27.0	19.5	17.0	14.0
26	19.5	11.5	24.0	16.0	27.0	18.5	26.5	19.0	26.0	19.0	19.5	16.5
27	20.5	13.0	24.5	16.5	27.5	19.0	27.0	19.0	25.5	19.5	20.0	17.5
28	18.0	12.5	25.0	17.0	28.0	18.5	27.0	19.5	25.5	20.0	21.5	16.5
29	17.5	10.5	25.0	17.5	29.0	19.0	24.0	19.5	25.5	19.5	21.5	16.0
30	19.5	11.0	25.5	17.0	30.5	21.0	26.0	19.0	26.0	19.5	21.5	16.5
31	---	---	25.5	17.5	---	---	26.5	19.0	26.5	19.0	---	---
MONTH	20.5	7.5	25.5	10.0	30.5	15.0	31.0	18.0	27.0	17.0	25.5	14.0

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 miles east of Healdsburg, and 3.5 miles upstream from Dry Creek.

DRAINAGE AREA.--793 sq mi.

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 September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 28.0°C July 13, 14; minimum, 6.0°C Jan. 5, 30, 31, Feb. 2.

Period of record:
Water temperatures: Maximum (1965-68, 1969-70, 1971-72), 28.0°C July 13, 14, 1972; minimum (1965-69, 1971-72), 6.0°C on several days in 1965-66, 1971-72.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	13.5	13.5	10.0	11.0	8.5	9.0	8.0	8.0	6.5	11.5	10.0
2	20.0	13.5	14.0	10.0	11.5	9.5	9.0	8.0	7.5	6.0	11.0	10.0
3	20.5	14.5	13.5	9.5	10.0	9.0	8.5	7.5	8.0	7.0	13.0	11.0
4	21.5	15.5	13.5	9.5	9.5	8.0	7.5	6.5	8.5	8.0	13.5	11.0
5	22.0	16.0	13.5	10.0	10.5	8.5	7.0	6.0	8.5	8.5	14.0	11.5
6	22.0	16.0	13.0	9.5	11.0	9.0	7.5	6.5	10.0	8.5	14.0	11.0
7	21.5	15.5	13.0	9.0	9.0	8.0	8.0	7.0	10.5	9.5	15.0	11.5
8	21.5	16.0	12.0	8.5	9.0	7.5	8.0	7.0	10.5	9.5	14.0	12.0
9	21.0	15.5	13.0	10.5	10.5	9.0	8.5	6.5	11.0	9.5	12.0	11.5
10	20.5	16.0	13.5	10.5	9.5	8.5	8.5	7.0	11.0	9.0	13.0	11.5
11	20.5	14.5	14.0	12.0	9.0	7.5	8.5	7.0	11.5	9.0	15.5	12.5
12	21.0	15.5	13.5	12.0	9.5	8.5	9.0	8.0	11.5	9.5	15.0	13.5
13	21.0	16.0	12.5	11.0	9.0	7.0	9.5	8.0	12.0	10.0	16.0	13.0
14	20.0	16.0	11.5	9.5	8.0	7.0	9.0	8.0	11.5	10.0	16.0	13.0
15	16.0	14.0	11.5	9.0	8.0	7.0	8.5	8.0	11.5	10.0	16.5	13.5
16	16.5	12.5	11.5	8.5	8.0	7.0	8.5	7.5	12.5	10.0	17.5	14.0
17	16.0	11.0	12.0	9.0	8.0	7.0	8.5	7.5	12.5	10.5	17.0	14.5
18	16.0	11.0	12.0	9.5	8.5	7.5	9.5	8.5	12.5	11.5	16.5	13.5
19	15.0	11.5	12.0	9.0	8.0	7.0	10.0	9.5	12.5	12.0	15.5	13.0
20	17.0	14.0	12.0	9.0	8.5	7.5	10.5	10.0	13.5	12.0	16.0	12.5
21	16.5	12.5	12.0	8.5	8.0	7.5	11.0	10.5	12.5	11.5	16.0	14.0
22	16.0	11.5	12.5	10.0	9.0	8.0	11.0	10.0	12.0	11.5	14.5	13.0
23	16.0	12.5	12.5	10.5	9.0	8.0	10.5	9.5	11.5	10.5	15.0	12.0
24	15.0	11.0	13.0	10.5	9.0	8.5	9.5	7.5	11.0	10.5	13.5	12.0
25	15.5	11.0	12.5	9.0	9.0	7.0	8.5	7.5	11.0	10.5	14.0	11.5
26	16.0	11.0	12.0	11.0	7.0	6.5	8.0	6.5	11.5	10.5	13.5	10.0
27	14.5	11.0	13.0	11.0	7.0	6.5	7.0	6.5	13.5	11.0	14.0	10.5
28	12.5	9.5	13.0	12.0	8.0	7.0	7.5	6.5	13.0	12.0	15.0	10.5
29	12.5	8.5	13.5	11.0	9.0	8.0	8.0	6.5	12.5	11.5	15.5	11.0
30	13.0	9.5	11.5	9.5	9.5	9.0	7.5	6.0	---	---	16.5	11.5
31	14.0	10.5	---	---	9.5	8.0	8.0	6.0	---	---	15.5	12.5
MONTH	22.0	8.5	14.0	8.5	11.5	6.5	11.0	6.0	13.5	6.0	17.5	10.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	13.5	19.0	15.0	23.5	19.5	26.5	24.0	24.5	21.5	23.0	21.0
2	18.5	13.5	20.0	16.0	23.0	20.0	24.5	22.0	24.0	22.0	22.5	21.0
3	18.5	15.0	20.0	17.0	22.5	19.0	23.0	21.0	23.5	21.5	22.0	20.0
4	17.5	15.5	18.0	15.0	23.0	19.0	23.0	21.0	23.5	21.0	22.5	20.5
5	16.0	14.5	16.5	15.0	24.5	20.5	23.0	21.0	24.5	21.0	23.0	20.5
6	15.5	14.5	18.0	15.5	24.0	21.5	23.0	21.0	24.5	22.5	23.0	21.0
7	16.0	13.0	19.0	15.0	22.5	20.5	23.5	20.5	24.5	22.5	22.5	21.0
8	16.0	12.5	20.5	15.5	22.0	19.5	24.0	21.0	24.5	22.0	22.5	21.0
9	16.0	12.0	21.5	14.5	21.5	19.5	24.0	21.5	24.5	22.0	22.0	20.5
10	16.5	12.5	23.0	15.0	20.5	17.5	24.0	21.0	24.5	22.0	22.0	20.0
11	15.5	13.0	24.0	16.0	22.0	18.0	25.0	22.0	24.0	22.0	21.5	18.5
12	14.0	12.5	25.5	18.0	23.5	20.0	26.5	23.5	24.0	21.0	21.5	17.0
13	13.5	10.0	26.0	18.0	24.0	21.0	28.0	25.0	23.5	21.0	21.5	16.5
14	15.5	11.0	25.5	18.5	24.5	21.0	28.0	25.5	23.0	20.5	22.5	16.5
15	17.0	13.0	25.0	18.0	24.5	21.0	27.5	25.5	22.5	20.0	22.0	16.5
16	17.0	14.0	21.5	18.0	24.0	21.0	25.5	22.5	22.0	20.0	20.5	17.0
17	15.5	12.5	22.5	16.5	24.5	21.0	23.0	21.0	22.5	19.0	20.5	16.5
18	15.0	12.0	22.0	16.5	24.0	21.5	23.0	21.0	22.5	21.0	21.0	14.5
19	16.0	12.0	19.5	15.5	23.0	21.0	23.0	21.0	22.5	21.0	21.5	16.0
20	17.0	13.0	18.0	16.0	22.5	20.0	22.5	20.5	24.0	21.0	22.0	16.5
21	18.0	14.0	19.0	16.0	23.0	20.5	21.5	19.5	25.0	22.0	22.5	15.0
22	17.5	14.0	21.5	15.0	22.5	19.0	22.5	20.5	25.0	22.5	23.0	18.5
23	16.5	14.0	22.5	16.5	20.0	18.0	22.5	21.0	25.0	22.5	21.0	16.5
24	16.5	13.5	22.0	18.0	22.0	18.5	23.0	20.5	24.5	22.0	20.5	16.0
25	17.0	13.0	22.5	18.5	23.0	20.5	24.0	21.0	24.5	22.0	17.5	15.0
26	18.5	14.0	22.0	19.0	23.0	21.0	24.0	21.5	24.0	22.0	19.0	17.5
27	19.5	15.5	22.0	19.0	23.5	21.0	24.5	21.5	24.0	21.5	21.5	18.0
28	17.5	14.5	22.5	19.0	24.0	21.0	25.0	22.5	23.5	21.5	22.5	17.5
29	16.0	12.5	23.5	19.5	25.0	21.5	24.0	22.0	24.0	22.0	23.0	17.5
30	17.5	13.0	23.0	20.0	26.5	23.0	23.5	21.0	24.0	21.5	22.5	18.0
31	---	---	22.5	19.5	---	---	24.5	21.0	23.5	21.5	---	---
MONTH	19.5	10.0	26.0	14.5	26.5	17.5	28.0	19.5	25.0	19.0	23.0	14.5

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 downstream from Smith Creek, and 5 miles southwest of Cloverdale.

DRAINAGE AREA.--87.8 sq mi.

PERIOD OF RECORD.--Water temperatures: May 1965 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 32.0°C July 14; minimum, 5.5°C on several days during January.

Period of record:
Water temperatures: Maximum (1965-66, 1967-72), 33.5°C Aug. 6, 7, 1966; minimum (1966-72), 3.0°C Dec. 15, 1967.

REMARKS.--Probe inoperative Jan. 24 to Mar. 8, Apr. 12 to May 3.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	13.5	14.0	9.5	11.0	7.5	9.5	7.0	---	---	---	---
2	20.0	13.5	14.5	11.0	10.5	9.0	9.5	7.5	---	---	---	---
3	20.5	14.0	14.0	9.5	9.0	8.0	9.0	7.0	---	---	---	---
4	21.0	14.5	14.0	9.5	10.0	7.0	8.5	5.5	---	---	---	---
5	21.0	15.0	14.5	10.5	11.5	8.0	8.0	5.5	---	---	---	---
6	21.0	15.0	13.5	9.0	12.0	8.5	8.5	5.5	---	---	---	---
7	21.5	15.5	13.0	9.0	10.0	6.0	8.5	6.0	---	---	---	---
8	21.5	15.5	13.0	9.5	10.0	6.0	8.5	5.5	---	---	---	---
9	20.0	15.0	13.0	10.5	11.0	8.0	9.0	5.5	---	---	12.5	12.0
10	20.0	15.0	14.0	12.5	9.5	7.5	9.0	5.5	---	---	14.5	11.5
11	20.0	14.5	14.5	12.5	9.5	6.5	9.5	6.5	---	---	17.0	12.5
12	20.0	14.5	14.5	12.5	10.0	7.0	10.5	8.0	---	---	17.0	13.0
13	20.0	14.5	14.0	11.0	10.0	8.5	11.0	7.5	---	---	18.5	12.5
14	19.0	14.0	13.5	9.5	10.0	9.0	11.0	7.0	---	---	17.5	11.5
15	17.0	12.5	13.5	9.0	9.0	7.5	10.5	6.0	---	---	19.0	12.0
16	17.5	12.5	13.0	8.5	8.5	6.5	10.5	5.5	---	---	19.5	12.5
17	16.0	11.0	13.0	8.5	9.0	6.5	10.5	6.0	---	---	19.5	13.0
18	15.5	10.5	12.5	9.0	8.5	7.0	10.5	8.0	---	---	19.0	12.5
19	14.5	11.5	13.0	9.0	8.5	6.0	10.0	9.0	---	---	17.0	11.5
20	17.5	14.0	13.0	8.5	8.0	6.5	11.0	9.5	---	---	18.0	11.5
21	16.0	11.5	12.5	8.5	8.5	7.0	11.5	10.5	---	---	18.0	13.0
22	15.0	11.0	13.5	9.5	9.0	8.5	12.0	11.0	---	---	15.5	12.5
23	15.0	13.0	13.0	10.0	9.5	9.0	11.0	10.5	---	---	17.5	10.5
24	15.0	11.0	13.0	10.5	9.5	9.0	---	---	---	---	15.0	11.5
25	15.5	10.5	12.5	9.0	9.5	9.0	---	---	---	---	16.5	10.5
26	15.5	11.0	12.0	10.5	9.5	8.0	---	---	---	---	16.0	8.5
27	15.0	11.0	13.0	10.5	9.0	7.5	---	---	---	---	17.0	9.0
28	13.0	9.5	12.5	11.5	9.0	8.0	---	---	---	---	17.0	9.0
29	13.0	7.5	13.5	10.5	10.0	8.5	---	---	---	---	17.5	9.5
30	13.0	9.5	12.5	8.5	10.0	8.5	---	---	---	---	18.5	10.0
31	13.5	10.0	---	---	9.5	8.0	---	---	---	---	15.5	11.0
MONTH	21.5	7.5	14.5	8.5	12.0	6.0	---	---	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	12.5	---	---	26.5	18.0	27.5	21.0	28.0	19.0	25.5	17.5
2	21.0	13.5	---	---	23.5	18.5	27.0	21.0	28.0	18.5	25.0	17.5
3	20.0	14.5	---	---	26.0	17.0	28.0	20.5	27.0	19.0	26.0	17.0
4	18.0	14.5	21.5	16.0	27.5	18.0	28.0	20.0	27.5	19.0	26.5	16.5
5	17.0	14.0	23.5	16.0	28.0	19.0	27.5	20.0	29.0	18.5	27.0	17.0
6	17.0	13.0	22.5	16.0	27.0	19.5	28.0	20.5	28.0	18.5	27.0	16.5
7	18.0	12.0	19.5	15.5	27.5	19.5	27.5	19.0	27.5	19.0	27.0	17.0
8	15.0	11.0	22.5	15.0	27.0	19.5	27.5	19.0	28.0	19.5	26.5	18.0
9	18.0	10.5	22.5	14.5	22.5	18.5	26.5	19.0	28.5	19.5	26.5	17.0
10	18.0	11.5	24.0	14.5	24.0	16.5	28.0	19.0	28.0	19.0	26.0	16.0
11	15.0	12.5	25.0	15.5	25.0	16.5	29.5	20.0	28.0	19.0	25.0	16.0
12	---	---	26.0	16.5	27.0	17.5	30.5	21.0	28.0	18.0	25.0	15.0
13	---	---	26.5	17.0	27.0	18.0	30.5	21.0	27.0	17.0	25.0	15.0
14	---	---	26.0	17.5	26.5	18.0	32.0	22.0	26.5	17.0	25.0	15.5
15	---	---	25.5	17.5	26.5	18.0	30.0	22.5	25.0	17.5	24.5	16.0
16	---	---	21.5	17.5	26.5	17.5	29.0	21.5	22.5	17.5	23.0	16.5
17	---	---	24.0	16.0	28.5	18.5	28.0	21.5	24.0	17.0	23.0	16.0
18	---	---	23.0	14.5	27.0	19.0	29.0	21.0	27.5	18.0	23.5	14.5
19	---	---	20.5	15.5	26.0	19.5	28.0	21.0	25.5	18.5	23.0	15.0
20	---	---	17.5	15.5	27.5	19.5	26.0	20.5	28.5	19.5	23.0	14.0
21	---	---	18.0	15.5	27.0	19.5	27.5	20.5	28.5	18.5	23.5	13.5
22	---	---	23.5	14.0	21.0	19.0	28.0	20.0	29.0	18.0	24.0	16.0
23	---	---	24.0	15.0	25.0	18.5	27.0	20.0	28.5	18.0	22.5	14.0
24	---	---	25.0	15.5	27.0	17.5	27.5	20.0	28.5	17.0	22.0	13.5
25	---	---	25.5	16.5	27.5	18.5	28.5	19.5	29.5	18.0	17.5	12.5
26	---	---	25.5	17.5	27.0	19.0	28.0	20.0	28.0	18.5	19.5	16.5
27	---	---	25.5	18.0	27.5	19.5	29.5	19.0	27.0	18.5	20.5	17.5
28	---	---	26.5	18.0	28.0	19.5	29.0	19.5	27.5	19.0	22.0	17.5
29	---	---	26.0	18.0	29.0	19.5	26.5	20.0	28.0	18.0	22.0	16.5
30	---	---	27.0	17.5	30.5	21.0	28.0	20.0	28.5	17.5	22.0	16.5
31	---	---	26.0	18.0	---	---	27.5	19.5	27.5	17.0	---	---
MONTH	---	---	27.0	14.0	30.5	16.5	32.0	19.0	29.5	17.0	27.0	12.5

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 mile downstream from Pena Creek, and 3 miles west of Geyserville.

DRAINAGE AREA.--162 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1970 to September 1972.
Water temperatures: March 1964 to September 1972.
Sediment records: March 1964 to September 1972.
Turbidity: Water years 1964-72 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 23.5°C June 30, July 12, 14; minimum, 4.5°C Feb. 2.
Sediment concentrations: Maximum daily, 868 mg/l Dec. 22; minimum daily, no flow for many days.
Sediment discharge: Maximum daily, 6,040 tons Dec. 27; minimum daily, 0 tons on many days.

Period of record:
Water temperatures: Maximum, 26.5°C Aug. 11, 1971; minimum (1964-66, 1967-72), 4.5°C Feb. 2, 1972.
Sediment concentrations: Maximum daily, 15,000 mg/l (estimated) Dec. 22, 1964; minimum daily, no flow for many days in 1964, 1966, 1970-72.
Sediment discharge: Maximum daily, 830,000 tons (estimated) Dec. 22, 1964; minimum daily, 0 tons on many days in 1964, 1966, 1968-72.

REMARKS.--No flow Oct. 1 to Nov. 1, July 15 to Sept. 30.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
DEC.										
14...	1110	--	75	--	--	--	--	--	--	--
14-15	--	68	--	15	20	24	12	12	.9	131
JAN.										
10...	1600	--	58	16	20	23	12	10	1.2	128
MAR.										
29-30	--	64	--	16	30	23	12	11	.8	138
MAY										
31-31	--	14	--	19	50	26	13	12	1.0	150
JUNE										
01-01	--	14	--	19	50	26	13	12	1.0	150
16...	1145	--	5.6	19	30	25	13	11	.9	153

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 NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)
DEC.										
14...	--	--	--	--	--	--	--	--	--	--
14-15	0	107	20	9.2	.1	.18	.04	.05	.21	.25
JAN.										
10...	0	105	20	5.9	.2	.36	--	--	--	--
MAR.										
29-30	0	113	16	4.7	.0	.13	.04	.05	.11	.15
MAY										
31-31	0	123	21	5.4	.1	1.3	.09	.12	.00	.09
JUNE										
01-01	0	123	21	5.4	.1	1.3	.09	.12	.00	.09
16...	0	126	18	5.0	.1	.13	--	--	--	--

DATE	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-F	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
DEC.									
14...	--	--	--	--	--	--	--	--	--
14-15	.43	.07	.01	188	159	.26	34.5	110	2
JAN.									
10...	--	--	--	156	153	.21	24.4	110	2
MAR.									
29-30	.28	.05	.02	186	151	.25	32.1	110	0
MAY									
31-31	1.4	.04	.03	--	173	.24	6.54	120	0
JUNE									
01-01	1.4	.04	.03	--	173	.24	6.54	120	0
16...	--	--	--	182	168	.25	2.79	120	0

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED BORON (B) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
DEC.									
14...	--	--	--	--	8.0	--	--	7	--
14-15	19	.5	261	7.7	--	1.5	--	--	--
JAN.									
10...	17	.4	255	7.3	9.5	--	--	--	.3
MAR.									
29-30	18	.5	245	7.6	--	6.0	--	--	--
MAY									
31-31	18	.5	276	7.9	--	3.0	410	--	--
JUNE									
01-01	18	.5	276	7.9	--	3.0	410	--	--
16...	17	.4	278	8.0	21.0	--	360	--	.1

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
DEC.										
14...	0630	82	111	235	8.1	7.0	10.8	89	--	--
14...	0900	75	105	220	7.2	7.5	10.3	85	--	--
14...	1200	75	105	260	7.3	8.0	10.1	85	190	--
14...	1500	70	107	250	7.4	9.0	10.2	88	--	--
14...	1800	66	109	250	7.4	8.5	10.1	86	131	--
14...	2100	65	107	255	7.5	8.0	10.0	84	--	--
14...	2400	62	106	260	7.5	7.5	10.1	84	96	--
15...	0300	61	107	260	7.5	7.5	10.2	85	--	--
15...	0600	60	107	260	7.7	7.0	10.1	83	--	--
MAR.										
29...	0600	66	110	225	7.4	11.0	10.1	92	--	--
29...	0900	64	112	230	7.8	11.0	9.9	90	9	--
29...	1200	64	112	230	8.0	14.5	10.8	106	--	--
29...	1500	65	108	240	8.1	16.0	10.2	103	--	--
29...	1530	65	103	--	--	16.5	9.8	100	--	--
29...	1700	66	--	--	--	16.0	--	--	E1	--
29...	1800	66	105	235	7.9	16.0	9.0	91	--	--
29...	2100	66	105	240	7.8	14.5	8.7	85	--	--
29...	2400	64	107	230	7.8	13.5	8.8	84	--	--
30...	0100	63	--	--	--	13.0	--	--	E2	--
30...	0300	63	106	220	7.9	12.5	9.0	84	--	--
30...	0600	60	106	210	8.0	11.5	9.2	84	--	--
MAY										
31...	0630	15	123	255	7.5	17.0	8.1	84	--	--
31...	0900	15	123	270	7.6	17.0	8.5	88	--	--
31...	1000	15	--	--	--	17.5	--	--	--	32
31...	1200	15	120	295	7.8	20.0	8.6	95	--	--
31...	1500	14	124	265	7.9	22.0	8.7	99	--	--
31...	1800	14	121	265	7.9	22.0	8.1	92	--	--
31...	1830	14	--	--	--	21.5	--	--	--	9
31...	2100	14	121	255	7.7	20.0	7.1	78	--	--
31...	2400	14	121	258	7.6	18.0	6.8	72	--	--
JUNE										
01...	0300	14	121	260	7.6	17.0	7.0	72	--	--
01...	0400	14	--	--	--	17.0	--	--	--	11
01...	0600	14	121	260	7.6	17.0	7.2	74	--	--

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	12.5	19.0	14.0	21.5	16.5	23.0	19.0	---	---	---	---
2	17.5	13.5	19.5	14.5	21.0	17.0	21.5	19.0	---	---	---	---
3	17.0	14.5	20.0	15.0	21.0	16.5	22.5	18.5	---	---	---	---
4	16.0	14.5	17.0	15.0	22.0	16.5	22.5	18.0	---	---	---	---
5	16.0	14.0	17.5	14.5	22.5	17.0	22.0	18.0	---	---	---	---
6	16.0	13.0	18.5	14.5	22.0	17.5	22.5	18.0	---	---	---	---
7	16.0	12.5	18.0	14.5	21.5	17.0	22.5	17.5	---	---	---	---
8	14.5	12.0	18.0	14.5	21.0	17.5	22.5	17.0	---	---	---	---
9	16.0	11.5	19.0	14.0	18.5	15.5	22.5	17.5	---	---	---	---
10	15.5	12.0	20.0	14.5	20.0	15.0	22.5	18.0	---	---	---	---
11	14.5	12.5	20.0	15.0	20.5	15.5	23.0	18.0	---	---	---	---
12	13.0	10.5	20.5	15.5	22.0	16.5	23.5	18.5	---	---	---	---
13	15.0	8.5	21.0	16.0	22.5	17.0	23.0	19.5	---	---	---	---
14	16.0	10.0	21.0	16.0	22.0	17.0	23.5	19.5	---	---	---	---
15	17.5	11.5	21.0	16.0	22.0	17.0	---	---	---	---	---	---
16	17.5	12.5	18.5	16.0	22.0	16.5	---	---	---	---	---	---
17	16.0	11.0	20.0	15.0	22.5	17.5	---	---	---	---	---	---
18	16.0	10.5	19.5	14.5	22.0	18.0	---	---	---	---	---	---
19	16.0	11.0	19.0	15.0	21.0	18.0	---	---	---	---	---	---
20	16.5	11.5	16.0	15.0	22.0	18.0	---	---	---	---	---	---
21	17.5	12.5	16.0	15.0	22.0	18.0	---	---	---	---	---	---
22	17.0	12.5	19.5	14.0	18.5	17.5	---	---	---	---	---	---
23	16.0	13.0	20.5	15.0	21.0	17.0	---	---	---	---	---	---
24	17.0	12.5	20.5	15.0	21.5	16.5	---	---	---	---	---	---
25	17.0	12.0	20.5	15.5	22.0	17.0	---	---	---	---	---	---
26	18.0	13.0	20.5	16.0	22.0	17.5	---	---	---	---	---	---
27	19.0	14.0	21.0	16.0	22.0	18.0	---	---	---	---	---	---
28	17.5	13.5	21.0	16.5	22.0	18.0	---	---	---	---	---	---
29	17.0	12.0	21.5	16.0	23.0	18.5	---	---	---	---	---	---
30	18.0	12.5	21.5	16.0	23.5	18.5	---	---	---	---	---	---
31	---	---	22.0	16.5	---	---	---	---	---	---	---	---
MONTH	19.0	8.5	22.0	14.0	23.5	15.0	---	---	---	---	---	---

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	22	2	.12
2				.18	3	0	35	100	9.5
3				.54	3	0	80	49	11
4				1.0	5	.01	62	20	3.3
5				1.1	6	.02	44	15	1.8
6				1.4	6	.02	40	2	.22
7				1.9	7	.04	36	3	.29
8				2.4	9	.06	33	2	.18
9				3.2	10	.09	30	2	.16
10				5.0	13	.18	28	2	.15
11				10	20	.54	36	4	.39
12				22	36	2.1	380	220	226
13				25	45	3.0	134	32	12
14				20	40	2.2	80	9	1.9
15				40	180	19	60	7	1.1
16				25	70	4.7	54	6	.87
17				18	25	1.2	48	5	.65
18				10	15	.41	44	4	.48
19				9.0	11	.27	42	2	.23
20				8.0	9	.19	38	1	.10
21				7.0	7	.13	40	5	.64
22				6.8	6	.11	950	868	3120
23				6.6	6	.11	399	165	209
24				6.6	6	.11	656	284	806
25				6.6	5	.09	652	226	434
26				6.6	5	.09	1140	446	2460
27				16	4	.17	1920	832	6040
28				33	3	.27	615	50	83
29				42	2	.23	360	32	31
30				29	2	.16	254	22	15
31				--	--	--	207	16	8.9
TOTAL	0	--	0	363.92	--	35.50	8519	--	13477.98

	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	170	12	5.5	194	8	4.2	338	37	34
2	142	8	3.1	163	7	3.1	319	21	18
3	119	5	1.6	146	7	2.8	293	11	8.7
4	103	5	1.4	234	23	16	274	9	6.7
5	90	4	.97	761	212	471	239	9	5.8
6	84	3	.68	525	110	156	209	11	6.2
7	75	3	.61	383	39	40	189	10	5.1
8	68	3	.55	310	19	16	167	7	3.2
9	62	3	.50	262	12	8.5	152	4	1.6
10	56	3	.45	225	9	5.5	203	13	7.1
11	53	2	.29	194	7	3.7	163	4	1.8
12	52	2	.28	165	6	2.7	146	3	1.2
13	52	3	.42	150	6	2.4	131	3	1.1
14	50	3	.41	140	6	2.3	120	3	.97
15	46	1	.12	129	6	2.1	114	3	.92
16	45	1	.12	119	6	1.9	106	3	.86
17	45	1	.12	114	6	1.8	98	3	.79
18	45	1	.12	109	5	1.5	90	3	.73
19	45	1	.12	106	5	1.4	85	3	.69
20	45	2	.24	114	5	1.5	81	3	.66
21	55	5	.74	109	5	1.5	76	3	.62
22	99	11	4.1	140	10	3.8	125	20	6.8
23	444	156	204	319	70	61	135	12	4.4
24	232	21	13	386	38	40	104	4	1.1
25	446	158	241	301	20	16	93	4	1.0
26	299	40	32	290	14	11	83	4	.90
27	332	31	28	257	12	8.3	75	4	.81
28	344	33	31	270	16	14	71	3	.58
29	307	17	14	480	61	79	66	3	.53
30	249	12	8.1	--	--	--	62	2	.33
31	220	9	5.3	--	--	--	59	2	.32
TOTAL	4474	--	598.84	7095	--	979.0	4466	--	123.51

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	58	2	.31	54	4	.58	13	8	.28
2	57	1	.15	47	4	.51	12	14	.45
3	56	1	.15	45	3	.36	12	14	.45
4	55	1	.15	43	4	.46	11	15	.45
5	127	31	16	43	4	.46	9.8	16	.42
6	221	49	33	42	4	.45	8.6	10	.23
7	129	18	6.3	40	3	.32	8.6	7	.16
8	106	13	3.7	40	3	.32	8.4	6	.14
9	90	9	2.2	38	3	.31	8.4	5	.11
10	84	6	1.4	33	4	.36	7.8	5	.11
11	133	26	9.3	29	6	.47	6.8	4	.07
12	407	198	284	29	5	.38	7.2	25	.49
13	347	109	102	28	5	.38	8.0	30	.65
14	237	23	15	28	4	.30	6.8	25	.46
15	189	10	5.1	26	4	.28	6.3	10	.17
16	159	9	3.9	25	5	.34	5.4	2	.03
17	140	8	3.0	24	6	.39	5.1	2	.03
18	125	8	2.7	24	8	.52	4.9	1	.01
19	112	7	2.1	23	7	.43	4.5	1	.01
20	99	5	1.3	25	8	.54	4.4	1	.01
21	89	3	.72	27	9	.66	4.5	1	.01
22	85	3	.69	27	2	.15	4.3	1	.01
23	83	2	.45	25	3	.20	4.4	2	.02
24	98	12	3.2	23	4	.25	4.5	2	.02
25	83	8	1.8	22	3	.18	4.4	2	.02
26	74	5	1.0	21	3	.17	4.3	2	.02
27	67	5	.90	20	3	.16	4.2	2	.02
28	61	5	.82	19	3	.15	3.2	2	.02
29	59	5	.80	17	3	.14	2.9	4	.03
30	56	4	.60	16	3	.13	2.8	6	.05
31	--	--	--	15	5	.20	--	--	--
TOTAL	3686	--	502.74	917	--	10.55	198.5	--	4.95

	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	2.6	6	.04						
2	2.3	6	.04						
3	2.2	6	.04						
4	1.7	5	.02						
5	1.3	5	.02						
6	.98	4	.01						
7	.72	4	.01						
8	.54	4	.01						
9	.42	4	0						
10	.30	4	0						
11	.22	4	0						
12	.17	4	0						
13	.13	3	0						
14	.09	3	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						
TOTAL	13.67	--	.19	0	--	0	0	--	0

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 29733.09
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 15733.26

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.									
15...	1615	13.5	50	523	71	60	78	90	97
DEC.									
02...	1445	12.0	34	109	10	--	--	--	--
12...	1005	10.0	440	756	898	45	63	81	89
22...	0900	9.5	1940	1820	9530	28	43	54	68
27...	1435	8.5	1360	260	955	--	--	--	--
JAN.									
23...	0940	9.5	534	178	257	--	--	--	--
25...	0845	7.5	259	300	210	--	--	--	--
FEB.									
04...	1015	7.5	264	48	34	--	--	--	--
APR.									
12...	0815	10.5	170	102	47	--	--	--	--

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.								
15...	99	--	100	--	--	--	--	--
DEC.								
02...	--	--	100	--	--	--	--	--
12...	92	--	99	--	100	--	--	--
22...	84	89	--	92	--	100	--	--
27...	--	--	98	--	99	--	100	--
JAN.								
23...	--	--	83	--	86	--	98	100
25...	--	--	99	--	99	--	100	--
FEB.								
04...	--	--	93	--	94	--	95	100
APR.								
12...	--	--	100	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
OCT.								
14...	1530	--	1	.00	15	45	89	97
14...	1535	--	1	.00	--	1	1	3
14...	1540	--	1	.00	--	--	1	2
14...	1545	--	1	.00	--	1	2	4
14...	1550	--	1	.00	1	4	7	7
14...	1555	--	1	.00	1	5	17	19
MAR.								
09...	1120	12.0	1	152	13	43	88	97
09...	1125	12.0	1	152	--	--	--	--
09...	1130	12.0	1	152	--	--	1	1
09...	1135	12.0	1	152	1	1	2	2
09...	1140	12.0	1	152	1	3	4	6
09...	1145	12.0	1	152	2	7	25	32

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
OCT.							
14...	100	--	--	--	--	--	--
14...	12	21	28	38	55	72	100
14...	5	9	12	18	28	45	100
14...	7	12	19	29	38	51	100
14...	8	10	21	39	50	54	100
14...	19	26	51	80	97	100	--
MAR.							
09...	100	--	--	--	--	--	--
09...	2	3	4	8	21	51	100
09...	3	11	41	77	100	--	--
09...	4	7	11	17	21	26	100
09...	7	17	35	59	86	100	--
09...	32	36	58	89	100	--	--

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)	DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
Nov. 15, 1971.	--	523	200	Jan. 22.....	--	1	1
Nov. 19.....	--	11	2	Jan. 23.....	--	178	85
Nov. 22.....	--	6	1	Jan. 24.....	--	18	15
Nov. 26.....	--	5	1	Jan. 25.....	--	311	250
Nov. 29.....	--	2	1	Jan. 27.....	--	18	15
Dec. 2.....	--	109	95	Jan. 28.....	--	36	20
Dec. 3.....	0925	32	30	Jan. 29.....	--	15	15
Dec. 3.....	1635	33	30	Jan. 30.....	--	13	15
Dec. 4.....	--	15	15	Jan. 31.....	--	7	7
Dec. 5.....	--	15	10	Feb. 1.....	--	8	4
Dec. 6.....	--	2	2	Feb. 2.....	--	6	4
Dec. 7.....	--	3	2	Feb. 3.....	--	7	3
Dec. 8.....	--	2	1	Feb. 4.....	--	48	30
Dec. 9.....	--	2	1	Feb. 6.....	--	84	40
Dec. 10.....	--	2	2	Feb. 7.....	--	44	35
Dec. 11.....	--	4	1	Feb. 8.....	--	19	15
Dec. 12.....	--	756	680	Feb. 9.....	--	15	15
Dec. 13.....	--	32	20	Feb. 10.....	--	9	6
Dec. 14.....	0855	9	9	Feb. 11.....	--	7	6
Dec. 14.....	1700	8	9	Feb. 12.....	--	6	4
Dec. 15.....	--	5	2	Feb. 13.....	--	4	4
Dec. 17.....	--	5	4	Feb. 14.....	--	8	3
Dec. 18.....	--	2	2	Feb. 15.....	--	6	2
Dec. 19.....	--	2	1	Feb. 16.....	--	4	2
Dec. 20.....	--	1	1	Feb. 17.....	--	4	2
Dec. 21.....	--	1	1	Feb. 18.....	--	6	2
Dec. 22.....	--	1820	650	Feb. 19.....	--	4	2
Dec. 23.....	--	144	75	Feb. 20.....	--	4	2
Dec. 24.....	--	62	40	Feb. 21.....	--	5	2
Dec. 25.....	--	71	40	Feb. 22.....	--	13	10
Dec. 26.....	--	219	100	Feb. 23.....	--	69	45
Dec. 27.....	--	260	200	Feb. 27.....	--	10	10
Dec. 29.....	--	30	20	Feb. 28.....	--	13	7
Dec. 30.....	--	22	20	Feb. 29.....	--	50	35
Jan. 2, 1972..	--	4	5	Mar. 1.....	--	40	40
Jan. 3.....	--	7	3	Mar. 2.....	--	20	20
Jan. 4.....	--	5	2	Mar. 3.....	--	16	10
Jan. 5.....	--	6	3	Mar. 4.....	--	9	7
Jan. 6.....	--	3	2	Mar. 5.....	--	8	8
Jan. 7.....	--	3	1	Mar. 6.....	--	12	8
Jan. 8.....	--	2	1	Mar. 7.....	--	10	6
Jan. 9.....	--	3	1	Mar. 8.....	--	7	4
Jan. 10.....	0815	4	60	Mar. 9.....	1100	4	2
Jan. 10.....	1600	5	3	Mar. 9.....	1355	4	2
Jan. 11.....	--	2	2	Mar. 10.....	--	17	10
Jan. 12.....	--	1	1	Mar. 12.....	--	3	3
Jan. 13.....	--	4	40	Mar. 13.....	--	2	2
Jan. 14.....	--	4	5	Mar. 14.....	--	4	2
Jan. 15.....	--	1	1	Mar. 15.....	--	3	2
Jan. 16.....	--	1	1	Mar. 16.....	--	2	2
Jan. 17.....	--	1	1	Mar. 17.....	--	3	2
Jan. 18.....	--	2	1	Mar. 19.....	--	2	2
Jan. 19.....	--	1	1	Mar. 20.....	--	3	2
Jan. 20.....	--	2	1	Mar. 21.....	--	2	2
Jan. 21.....	--	2	1	Mar. 22.....	--	16	15

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)	DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
Mar. 23, 1972.	--	8	4	May 11.....	--	6	2
Mar. 24.....	--	4	4	May 15.....	--	4	2
Mar. 26.....	--	6	1	May 17.....	--	6	2
Mar. 27.....	--	2	2	May 19.....	--	7	2
Mar. 28.....	--	2	3	May 22.....	--	2	2
Mar. 29.....	0715	3	2	May 24.....	--	4	2
Mar. 29.....	1700	2	2	May 26.....	--	3	2
Mar. 30.....	0700	2	2	May 31.....	1800	5	2
Mar. 30.....	1730	2	2	May 31.....	1935	2	2
Mar. 31.....	--	2	2	June 1.....	--	8	2
Apr. 1.....	--	2	2				
Apr. 2.....	--	1	2	June 2.....	--	14	3
Apr. 3.....	--	1	2	June 5.....	--	16	4
Apr. 5.....	--	12	5	June 9.....	--	5	2
Apr. 7.....	--	18	5	June 12.....	--	25	2
				June 14.....	--	25	3
Apr. 10.....	--	6	4				
Apr. 12.....	--	102	75	June 16.....	--	1	1
Apr. 14.....	--	21	8	June 19.....	--	1	1
Apr. 17.....	--	8	4	June 21.....	--	1	1
Apr. 19.....	--	7	4	June 23.....	--	2	2
				June 26.....	--	2	2
Apr. 21.....	--	5	2				
Apr. 24.....	--	18	7				
Apr. 26.....	--	5	2	June 28.....	--	2	1
Apr. 28.....	--	5	2	June 30.....	--	6	2
May 1.....	--	4	2	July 3.....	--	6	2
				July 5.....	--	5	2
May 3.....	--	3	2				
May 4.....	--	4	2	July 7.....	--	4	1
May 5.....	--	4	2	July 10.....	--	4	2
May 8.....	--	3	2	July 12.....	--	4	2
May 10.....	--	4	2	July 14.....	--	3	2

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.

LOCATION.--Lat 38°30'03", long 122°55'59", in NW¼NE¼ sec.35, T.8 N., R.10 W., Sonoma County, at gaging station 0.6 mile downstream from Hobson Creek, and 3.4 miles east of Guerneville.

DRAINAGE AREA.--1,340 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1965, water years 1966-67, 1969-72 (partial-record station). Published as "at Guerneville" in 1961-65.
Water temperatures: January 1964 to September 1972.
Sediment records: Water years 1966-67 (partial-record station), April 1967 to September 1972.
Turbidity: Water years 1967-72 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 27.0°C June 14.
Sediment concentrations: Maximum daily, 565 mg/l Dec. 27; minimum daily, 3 mg/l on several days.
Sediment discharge: Maximum daily, 11,700 tons Dec. 27; minimum daily, 1.3 tons Sept. 23.

Period of record:
Water temperatures: Maximum, 28.5°C June 24, 1964, June 23, 1968; minimum (1965-71), 4.5°C Dec. 15, 1967, Jan. 12, 1968.
Sediment concentrations (1969-72): Maximum daily, 1,630 mg/l Jan. 24, 1970; minimum daily, 3 mg/l on several days in 1972.
Sediment discharge (1969-72): Maximum daily, 305,000 tons Jan. 24, 1970; minimum daily, 1.3 tons Sept. 23, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Nov. 12 to Apr. 28, probe inoperative; recorder stopped June 22 to July 17. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
DEC.								
14...	1100	868	16	9.4	92	0	75	9.5
MAR.								
14...	1345	1350	24	9.6	130	0	107	6.6
JUNE								
12...	0815	198	27	14	157	0	129	12
SEP.								
08...	1300	162	23	11	134	0	110	9.0

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
DEC.					
14...	89	14	212	7.5	6.5
MAR.					
14...	114	7	252	--	15.5
JUNE					
12...	130	1	304	8.1	19.5
SEP.					
08...	114	4	269	--	21.5

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DISCHARGE (CFS)	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
21...	1200	212	--	275	7.7	15.0	9.9
NOV.							
18...	1030	--	200	310	7.6	10.5	10.3
DEC.							
14...	1100	--	868	205	7.3	6.5	11.1
JAN.							
06...	1030	--	718	275	7.3	6.0	11.1
FEB.							
15...	1230	--	1300	240	7.3	10.0	10.4
MAR.							
14...	1345	--	1350	235	7.4	15.5	9.3
MAY							
11...	1015	335	--	285	7.7	19.0	8.3
JUNE							
12...	0815	--	198	280	7.7	19.5	8.7
JULY							
12...	1300	--	150	240	7.9	25.5	9.2
AUG.							
10...	1300	--	158	238	7.8	25.0	8.9
SEP.							
08...	1300	--	162	240	7.5	21.5	8.6

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	18.0	--	16.5	12.5	--	12.0	--	--	--	--	--	--	--	8.0	--	--	12.0	--
2	18.0	--	17.0	13.0	--	12.5	--	--	--	--	9.0	--	--	8.0	--	--	12.0	--
3	19.0	--	17.0	13.0	--	11.5	--	--	--	--	--	--	--	--	--	--	12.5	--
4	19.5	--	17.5	13.0	--	11.5	--	10.0	--	--	9.0	--	--	8.0	--	--	13.0	--
5	20.5	--	18.5	13.0	--	11.5	--	--	--	--	7.0	--	--	8.0	--	--	--	--
6	20.5	--	19.5	13.0	--	11.0	--	--	--	--	--	--	--	9.0	--	--	13.0	--
7	20.5	--	19.0	12.5	--	11.0	--	10.0	--	--	7.0	--	--	10.0	--	--	--	--
8	20.5	--	19.5	11.5	--	10.0	--	8.0	--	--	8.0	--	--	9.5	--	--	13.0	--
9	20.5	--	19.0	11.5	--	11.0	--	9.0	--	--	--	--	--	11.0	--	--	--	--
10	20.0	--	19.0	12.0	--	11.5	--	--	--	--	8.0	--	--	11.0	--	--	--	--
11	19.5	--	18.0	13.0	--	12.0	--	--	--	--	7.0	--	--	11.0	--	--	13.0	--
12	19.5	--	18.5	--	13.0	--	--	9.0	--	--	7.0	--	--	11.0	--	--	--	--
13	19.5	--	18.5	--	11.0	--	--	--	--	--	--	--	--	11.0	--	--	--	--
14	19.5	--	18.0	--	11.5	--	--	7.0	--	--	--	--	--	11.0	--	--	--	--
15	19.0	--	17.0	--	11.0	--	--	--	--	--	--	--	--	11.0	--	--	14.0	--
16	17.0	--	15.5	--	10.5	--	--	--	--	--	8.0	--	--	11.0	--	--	--	--
17	15.5	--	14.5	--	11.0	--	--	--	--	--	8.0	--	--	--	--	--	15.0	--
18	14.5	--	14.0	--	11.0	--	--	6.0	--	--	9.0	--	--	12.0	--	--	--	--
19	14.5	--	14.0	--	11.0	--	--	--	--	--	9.0	--	--	--	--	--	--	--
20	15.0	--	14.0	--	--	--	--	--	--	--	10.0	--	--	--	--	--	--	--
21	16.0	--	15.0	--	--	--	--	--	--	--	11.0	--	--	--	--	--	--	--
22	16.0	--	15.5	--	10.0	--	--	--	--	--	11.0	--	--	--	--	--	--	--
23	15.5	--	15.5	--	--	--	--	--	--	--	11.0	--	--	12.0	--	--	15.0	--
24	15.5	--	15.0	--	--	--	--	9.0	--	--	--	--	--	--	--	--	14.0	--
25	15.5	--	15.0	--	--	--	--	9.0	--	--	10.0	--	--	12.0	--	--	--	--
26	15.0	--	14.5	--	--	--	--	--	--	--	9.0	--	--	12.0	--	--	--	--
27	15.0	--	14.5	--	--	--	--	--	--	--	9.0	--	--	--	--	--	--	--
28	14.5	--	13.0	--	--	--	--	7.0	--	--	8.0	--	--	12.0	--	--	--	--
29	13.0	--	12.0	--	12.0	--	--	9.0	--	--	8.0	--	--	--	--	--	14.0	--
30	12.0	--	11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
31	12.0	--	11.5	--	--	--	--	9.0	--	--	8.0	--	--	--	--	--	--	--
MONTH	20.5	--	11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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	--	--	--	18.5	--	16.0	25.0	--	20.0	--	--	--	25.5	--	21.5	24.5	--	21.5
2	--	--	--	20.0	--	16.5	25.5	--	20.0	--	--	--	25.5	--	21.5	23.5	--	21.5
3	--	--	--	21.0	--	17.0	25.5	--	20.5	--	--	--	25.0	--	21.5	22.5	--	20.5
4	--	16.5	--	20.5	--	17.5	25.0	--	20.5	--	--	--	23.5	--	21.5	23.0	--	19.5
5	--	15.0	--	18.5	--	17.0	25.5	--	20.0	--	--	--	24.5	--	21.5	23.0	--	20.5
6	--	--	--	17.0	--	16.0	26.0	--	22.0	--	--	--	24.5	--	22.0	23.0	--	20.5
7	--	15.0	--	18.0	--	16.0	25.0	--	22.0	--	--	--	24.5	--	22.0	23.5	--	19.5
8	--	--	--	17.5	--	16.0	24.0	--	21.5	--	--	--	25.0	--	21.5	23.5	--	20.0
9	--	--	--	19.0	--	17.0	23.0	--	21.0	--	--	--	25.0	--	22.0	23.0	--	20.5
10	--	--	--	20.0	--	17.5	22.5	--	19.5	--	--	--	25.0	--	22.0	22.5	--	19.5
11	--	15.0	--	21.0	--	17.0	24.0	--	19.0	--	--	--	24.5	--	22.0	22.0	--	19.5
12	--	15.0	--	22.5	--	19.0	25.5	--	19.5	--	--	--	24.5	--	21.0	21.5	--	19.5
13	--	--	--	24.0	--	20.5	26.5	--	20.5	--	--	--	24.5	--	21.5	22.0	--	19.5
14	--	--	--	25.0	--	21.5	27.0	--	21.5	--	--	--	24.0	--	21.0	21.5	--	19.5
15	--	--	--	24.5	--	22.0	26.5	--	22.0	--	--	--	23.0	--	20.5	21.0	--	19.5
16	--	14.0	--	23.5	--	21.0	26.0	--	22.0	--	--	--	22.5	--	20.5	20.5	--	19.5
17	--	--	--	22.0	--	20.5	26.0	--	22.5	--	23.0	--	21.5	--	20.0	20.0	--	19.0
18	--	--	--	21.5	--	19.0	25.5	--	22.0	23.5	--	22.0	23.5	--	20.5	19.5	--	18.0
19	--	14.0	--	21.0	--	19.0	24.0	--	21.0	22.5	--	20.5	23.5	--	21.5	19.5	--	18.0
20	--	--	--	20.0	--	18.5	24.0	--	21.0	22.5	--	21.5	24.0	--	21.5	19.5	--	18.0
21	--	--	--	18.5	--	17.0	25.0	--	21.0	22.0	--	21.0	24.5	--	22.0	20.5	--	18.0
22	--	--	--	18.0	--	17.0	--	--	--	22.0	--	21.0	25.0	--	22.0	21.0	--	19.0
23	--	15.0	--	20.0	--	17.5	--	--	--	22.0	--	21.0	25.5	--	22.5	21.0	--	18.5
24	--	--	--	21.0	--	19.0	--	--	--	22.0	--	21.0	26.0	--	21.0	20.0	--	17.5
25	--	--	--	22.0	--	18.5	--	--	--	23.0	--	21.5	25.5	--	21.5	19.0	--	16.0
26	--	--	--	23.5	--	19.0	--	--	--	23.5	--	21.5	25.0	--	22.0	16.5	--	16.0
27	--	--	--	23.0	--	19.5	--	--	--	24.5	--	21.5	24.5	--	22.0	18.5	--	16.5
28	--	--	--	23.5	--	19.5	--	--	--	25.5	--	21.0	24.0	--	22.0	20.0	--	18.0
29	19.0	--	16.5	24.0	--	19.5	--	--	--	25.0	--	22.5	25.0	--	22.0	21.5	--	18.5
30	17.5	--	16.5	25.0	--	19.5	--	--	--	24.0	--	22.0	25.0	--	21.5	21.5	--	19.5
31	--	--	--	25.5	--	20.5	--	--	--	25.0	--	21.5	25.0	--	21.5	--	--	--
MONTH	--	--	--	25.5	--	16.0	--	--	--	--	--	--	26.0	--	20.0	24.5	--	16.0

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	202	10	5.5	210	8	4.5	286	12	9.3
2	216	11	6.4	210	8	4.5	298	11	8.9
3	200	11	5.9	196	8	4.2	406	14	15
4	196	8	4.2	165	7	3.1	573	25	39
5	192	10	5.2	158	7	3.0	619	25	42
6	182	11	5.4	153	8	3.3	458	18	22
7	178	10	4.8	152	8	3.3	422	17	19
8	178	10	4.8	150	8	3.2	447	12	14
9	180	8	3.9	147	8	3.2	367	9	8.9
10	182	7	3.4	148	8	3.2	332	8	7.2
11	200	10	5.4	181	10	4.9	396	17	18
12	190	7	3.6	228	30	18	725	164	361
13	182	7	3.4	283	26	20	1460	202	818
14	180	7	3.4	340	21	19	872	40	101
15	168	10	4.5	302	13	11	550	18	27
16	170	9	4.1	242	9	5.9	421	12	14
17	176	8	3.8	216	9	5.2	339	10	9.2
18	180	7	3.4	200	10	5.4	282	10	7.6
19	208	9	5.1	189	10	5.1	246	9	6.0
20	210	8	4.5	189	9	4.6	223	8	4.8
21	212	7	4.0	187	8	4.0	209	8	4.5
22	210	5	2.8	182	9	4.4	1930	215	1990
23	220	7	4.2	177	9	4.3	3200	219	2020
24	220	7	4.2	177	9	4.3	2050	119	709
25	212	9	5.2	173	8	3.7	4450	350	4210
26	200	10	5.4	170	8	3.7	3790	220	2250
27	200	12	6.5	177	8	3.8	7360	565	11700
28	195	11	5.8	200	11	5.9	4020	183	2150
29	195	10	5.3	240	11	7.1	2550	61	420
30	195	9	4.7	291	13	10	1960	53	280
31	210	8	4.5	--	--	--	1600	52	225
TOTAL	6039	--	143.3	6033	--	185.8	42841	--	27510.4

	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	1340	37	134	2050	27	149	3520	95	903
2	1240	18	60	1850	20	100	3030	51	417
3	1130	14	43	1690	20	91	3500	92	869
4	985	10	27	2270	75	473	3670	102	1010
5	830	7	16	5340	259	4290	3030	54	442
6	718	7	14	5660	142	2170	2630	40	284
7	674	8	15	4090	65	718	2320	36	226
8	634	8	14	3150	48	408	2170	29	170
9	586	9	14	2590	37	259	1920	24	124
10	546	11	16	2240	30	181	1910	26	134
11	526	9	13	1930	32	167	1830	26	128
12	634	11	19	1690	28	128	1630	23	101
13	690	12	22	1530	24	99	1510	21	86
14	698	11	21	1400	24	91	1360	20	73
15	666	8	14	1300	20	70	1190	19	61
16	646	7	12	1210	16	52	1080	18	52
17	634	5	8.6	1140	15	46	990	15	40
18	630	8	14	1070	15	43	920	12	30
19	630	10	17	1010	14	38	850	11	25
20	654	13	23	970	14	37	785	10	21
21	694	20	37	980	14	37	730	10	20
22	1620	97	489	1090	25	74	805	12	26
23	4260	267	3770	2030	82	474	1060	25	72
24	4530	205	2510	3110	96	806	1020	19	52
25	4180	220	2480	3060	80	661	865	14	33
26	4460	155	1870	3100	61	511	845	12	27
27	3800	90	923	3180	78	670	740	11	22
28	3670	80	793	2730	56	413	666	10	18
29	2960	44	352	3680	151	1610	622	9	15
30	2570	30	208	--	--	--	582	9	14
31	2280	29	179	--	--	--	556	9	14
TOTAL	50115	--	14127.6	67140	--	14866	48336	--	5509

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	535	9	13	800	60	130	230	12	7.5
2	514	9	12	770	29	60	206	9	5.0
3	493	9	12	706	14	27	194	10	5.2
4	475	10	13	686	18	33	186	11	5.5
5	526	14	20	674	16	29	164	12	5.3
6	1020	37	102	650	15	26	156	26	11
7	985	22	59	508	14	19	149	14	5.6
8	755	15	31	403	13	14	145	16	6.3
9	650	12	21	375	12	12	131	19	6.7
10	582	11	17	355	15	14	162	22	9.6
11	722	34	72	335	18	16	191	25	13
12	1330	93	389	315	22	19	198	29	16
13	2540	190	1300	290	19	15	191	33	17
14	1940	87	456	320	16	14	188	26	13
15	1560	53	223	355	13	12	163	19	8.4
16	1470	48	191	345	15	14	146	14	5.5
17	1330	42	151	338	14	13	140	14	5.3
18	1200	37	120	330	15	13	140	13	4.9
19	1010	33	90	310	16	13	136	13	4.8
20	905	30	73	292	17	13	148	12	4.8
21	850	28	64	290	16	13	156	12	5.1
22	845	26	59	298	15	12	166	12	5.4
23	815	25	55	267	12	8.7	178	13	6.2
24	840	27	61	111	13	3.9	180	13	6.3
25	845	26	59	230	14	8.7	181	14	6.8
26	775	20	42	254	14	9.6	169	15	6.8
27	730	17	34	260	14	9.8	159	16	6.9
28	765	20	41	260	14	9.8	152	15	6.2
29	755	20	41	262	15	11	141	15	5.7
30	805	65	141	256	15	10	140	14	5.3
31	--	--	--	246	14	9.3	--	--	--
TOTAL	28567	--	3962	11891	--	611.8	4986	--	221.1

	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	145	14	5.5	202	17	9.3	172	4	1.9
2	151	13	5.3	172	16	7.4	169	3	1.4
3	168	13	5.9	164	15	6.6	176	5	2.4
4	178	12	5.8	164	15	6.6	177	6	2.9
5	185	11	5.5	162	14	6.1	177	6	2.9
6	190	10	5.1	164	13	5.8	166	10	4.5
7	193	10	5.2	166	12	5.4	166	14	6.3
8	179	10	4.8	160	11	4.8	161	16	7.0
9	167	11	5.0	158	11	4.7	160	14	6.0
10	156	11	4.6	158	10	4.3	164	11	4.9
11	146	12	4.7	170	12	5.5	196	9	4.8
12	143	12	4.6	180	13	6.3	244	6	4.0
13	141	12	4.6	184	12	6.0	236	6	3.8
14	139	12	4.5	186	10	5.0	214	5	2.9
15	140	13	4.9	188	8	4.1	166	4	1.8
16	145	13	5.1	200	14	7.6	166	4	1.8
17	167	13	5.9	180	13	6.3	178	4	1.9
18	201	15	8.1	190	12	6.2	178	3	1.4
19	168	17	7.7	186	11	5.5	182	3	1.5
20	170	16	7.3	188	10	5.1	190	3	1.5
21	166	14	6.3	192	9	4.7	178	3	1.4
22	154	12	5.0	188	8	4.1	168	3	1.4
23	149	10	4.0	182	10	4.9	166	3	1.3
24	144	9	3.5	180	11	5.3	168	3	1.4
25	143	9	3.5	181	8	3.9	178	3	1.4
26	143	10	3.9	179	5	2.4	204	4	2.2
27	149	10	4.0	182	9	4.4	248	6	4.0
28	154	11	4.6	182	13	6.4	244	6	4.0
29	150	11	4.5	182	10	4.9	240	5	3.2
30	164	12	5.3	178	7	3.4	250	4	2.7
31	180	16	7.8	174	4	1.9	--	--	--
TOTAL	4968	--	162.5	5522	--	164.9	5682	--	88.6

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 282120
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 67553.0

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.									
25...	1030	9.0	4700	352	4470	99	100	--	--
FEB.									
04...	2140	8.0	2870	71	550	98	100	--	--
05...	0940	8.0	4970	221	2970	96	97	98	100
08...	1200	9.5	3120	48	404	99	99	100	--
MAR.									
01...	1720	12.0	3280	74	655	100	--	--	--
03...	1130	12.5	3480	92	864	94	95	99	100
04...	1240	13.0	3650	94	926	95	97	100	--
MAY									
03...	1030	17.5	710	14	27	100	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT.								
04...	1130	17.5	5	196	1	2	6	17
MAY								
03...	1045	17.5	4	710	1	2	6	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
OCT.							
04...	26	33	44	62	80	90	100
MAY							
03...	20	29	41	57	75	90	100

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)	DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
Oct. 3, 1971..	--	11	3	Jan. 12.....	--	11	4
Oct. 4.....	--	8	2	Jan. 16.....	--	7	4
Oct. 6.....	--	11	3	Jan. 17.....	--	5	3
Oct. 8.....	--	10	2	Jan. 18.....	--	9	4
Oct. 10.....	--	7	2	Jan. 19.....	--	11	6
Oct. 12.....	--	7	4	Jan. 20.....	--	15	6
Oct. 14.....	--	7	2	Jan. 21.....	--	15	6
Oct. 15.....	--	10	2	Jan. 22.....	--	171	40
Oct. 18.....	--	7	2	Jan. 23.....	--	257	85
Oct. 19.....	--	9	2	Jan. 25.....	--	150	70
Oct. 22.....	--	5	2	Jan. 26.....	--	106	60
Oct. 24.....	--	7	2	Jan. 27.....	--	89	45
Oct. 27.....	--	12	3	Jan. 28.....	--	70	40
Nov. 2.....	--	8	3	Jan. 29.....	--	46	30
Nov. 3.....	--	6	2	Jan. 30.....	--	24	20
Nov. 4.....	--	7	4	Jan. 31.....	--	31	20
Nov. 8.....	--	8	4	Feb. 1.....	--	23	15
Nov. 11.....	--	11	6	Feb. 2.....	--	20	10
Nov. 12.....	--	34	25	Feb. 4.....	--	71	45
Nov. 13.....	--	24	10	Feb. 5.....	--	221	85
Nov. 14.....	--	24	10	Feb. 6.....	--	76	40
Nov. 15.....	--	11	6	Feb. 7.....	--	60	40
Nov. 16.....	--	9	5	Feb. 8.....	1200	48	30
Nov. 17.....	--	9	4	Feb. 8.....	1345	48	30
Nov. 18.....	--	11	4	Feb. 8.....	2105	42	35
Nov. 19.....	--	9	4	Feb. 9.....	--	31	25
Nov. 20.....	--	10	4	Feb. 10.....	--	30	25
Nov. 21.....	--	7	2	Feb. 11.....	--	34	25
Nov. 22.....	--	9	3	Feb. 12.....	--	24	20
Nov. 24.....	--	9	3	Feb. 13.....	--	24	15
Nov. 26.....	--	8	3	Feb. 14.....	--	23	15
Nov. 28.....	1200	15	7	Feb. 15.....	--	18	10
Nov. 28.....	1700	11	5	Feb. 16.....	--	16	15
Nov. 29.....	--	11	7	Feb. 18.....	--	15	10
Dec. 4.....	--	24	15	Feb. 23.....	--	94	25
Dec. 7.....	--	18	10	Feb. 25.....	--	78	50
Dec. 8.....	--	6	4	Feb. 26.....	--	104	70
Dec. 9.....	--	10	8	Feb. 28.....	--	54	40
Dec. 12.....	--	212	100	Mar. 1.....	--	74	65
Dec. 14.....	--	30	20	Mar. 2.....	--	54	40
Dec. 18.....	--	11	6	Mar. 3.....	--	92	60
Dec. 21.....	--	11	4	Mar. 4.....	--	94	65
Dec. 24.....	--	84	50	Mar. 6.....	--	42	30
Dec. 25.....	--	352	215	Mar. 8.....	--	28	20
Dec. 28.....	--	104	50	Mar. 11.....	--	24	15
Dec. 29.....	--	57	30	Mar. 15.....	--	19	10
Dec. 31.....	--	58	25	Mar. 17.....	--	14	6
Jan. 2, 1972..	--	17	10	Mar. 23.....	--	25	15
Jan. 4.....	--	11	6	Mar. 24.....	--	16	15
Jan. 5.....	--	7	4	Mar. 29.....	--	9	7
Jan. 7.....	--	8	4	Apr. 4.....	--	10	6
Jan. 8.....	--	8	4	Apr. 5.....	--	20	9
Jan. 10.....	--	11	4	Apr. 7.....	--	19	7
Jan. 11.....	0730	13	7	Apr. 11.....	0945	40	20
Jan. 11.....	1110	9	5	Apr. 11.....	1830	46	20

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)	DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
Apr. 12, 1972.	--	116	50	June 7.....	--	14	7
Apr. 16.....	--	48	15	June 13.....	--	33	7
Apr. 19.....	--	32	15	June 16.....	--	14	6
Apr. 23.....	--	25	8	June 21.....	--	12	6
May 1.....	--	60	30	June 27.....	--	16	6
May 2.....	0610	29	10	July 6.....	--	10	5
May 2.....	1835	16	7	July 13.....	--	12	8
May 3.....	1030	14	6	July 17.....	--	13	4
May 3.....	1125	16	8	July 19.....	--	17	6
May 4.....	--	18	7	July 24.....	--	9	6
May 5.....	--	16	7	July 27.....	--	10	4
May 7.....	--	14	5	July 31.....	--	12	6
May 9.....	--	12	5	Aug. 8.....	--	11	6
May 12.....	--	22	6	Aug. 15.....	--	8	2
May 15.....	--	13	5	Aug. 18.....	--	12	4
May 16.....	--	15	7	Aug. 22.....	--	8	4
May 20.....	--	17	8	Aug. 24.....	--	11	4
May 23.....	1350	16	6	Aug. 26.....	--	5	4
May 23.....	1850	12	4	Aug. 28.....	--	13	6
May 24.....	0900	13	6	Aug. 31.....	--	4	2
May 24.....	1945	32	10	Sept. 5.....	--	6	2
May 26.....	--	14	5	Sept. 6.....	--	10	4
May 30.....	--	15	7	Sept. 8.....	--	16	6
June 2.....	--	9	5	Sept. 12.....	--	6	4
June 5.....	--	12	6	Sept. 19.....	--	3	4
June 6.....	--	26	7	Sept. 30.....	--	4	4

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 mile downstream from North Fork, and 3.5 miles northeast of town of Point Arena.

DRAINAGE AREA.--98.5 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 21.0°C July 15, 17, Aug. 20, 21; minimum, 5.5°C Feb. 2.

Period of record:
Water temperatures: Maximum (1963-72), 22.0°C June 22, 1964, Aug. 29, 1968; minimum, 5.0°C Dec. 14-16, 1967.

REMARKS.--Recorder malfunction Oct. 1-14.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	10.5	16.0	10.5	18.0	13.0	20.0	15.0	19.5	15.5	20.0	15.5
2	14.5	11.5	17.0	11.0	17.0	13.5	20.0	16.0	19.0	15.0	19.5	16.0
3	15.5	12.0	17.0	11.5	17.5	13.0	18.5	16.0	18.0	15.0	19.5	16.5
4	15.0	12.0	15.5	12.5	18.5	13.5	19.5	15.5	19.5	15.5	19.5	15.5
5	13.0	12.0	14.5	12.0	19.0	13.5	19.0	15.5	20.0	15.0	19.5	16.5
6	14.5	12.0	14.0	12.0	19.5	14.0	19.5	15.5	19.5	15.0	19.5	16.0
7	14.5	11.5	16.0	12.0	16.0	14.5	19.5	15.0	20.0	15.5	20.0	15.5
8	13.5	10.5	14.5	12.5	18.5	14.0	20.0	14.5	20.0	16.0	20.0	16.0
9	14.0	10.0	16.0	11.0	16.5	14.5	19.0	15.0	19.5	16.0	19.0	16.0
10	14.0	10.0	17.0	11.5	17.5	13.0	19.0	14.5	20.0	16.0	19.0	16.0
11	12.5	11.0	17.5	12.0	18.0	13.0	20.0	15.0	19.0	15.5	19.0	16.0
12	11.5	10.0	18.5	12.5	18.5	13.5	20.0	15.0	19.0	15.5	18.5	15.0
13	12.5	8.5	19.0	13.0	18.0	14.0	20.5	15.0	19.0	15.0	19.0	15.0
14	14.0	9.0	17.5	13.0	19.0	14.0	20.5	15.5	19.5	15.0	19.0	15.5
15	15.0	10.0	18.0	13.0	19.0	14.5	21.0	15.5	19.0	15.5	18.5	15.5
16	14.0	11.0	15.0	13.5	18.5	14.0	20.5	16.0	17.5	15.5	18.5	15.5
17	13.0	9.5	16.0	13.0	19.0	14.0	21.0	16.0	19.5	15.0	17.5	15.5
18	13.5	9.0	16.5	12.0	20.0	14.0	19.0	16.0	19.5	15.5	18.5	15.0
19	14.0	9.0	17.5	12.0	19.0	15.0	20.0	16.0	20.0	16.0	18.5	15.5
20	14.5	10.0	14.0	13.0	19.0	15.0	20.0	16.0	21.0	16.5	18.0	14.5
21	15.0	10.5	16.5	13.0	19.0	15.0	17.5	16.5	21.0	17.0	18.5	14.5
22	14.5	10.0	17.5	13.0	16.5	15.0	19.5	15.0	20.5	16.0	18.0	16.0
23	13.0	10.5	17.5	13.0	18.5	14.5	17.0	16.0	19.0	16.0	17.5	14.5
24	14.0	11.0	17.5	12.5	19.0	13.5	19.5	15.5	19.5	15.5	17.5	14.5
25	14.5	10.0	18.0	13.0	19.0	14.0	19.5	15.5	20.0	15.5	15.5	14.5
26	16.5	10.5	17.0	13.5	20.0	14.5	19.5	15.0	20.0	16.0	16.5	15.5
27	16.0	11.5	18.0	13.5	20.0	15.5	20.0	15.5	20.5	16.0	17.0	16.0
28	15.0	11.0	18.5	14.0	20.0	15.5	19.0	15.5	20.5	16.5	20.0	15.5
29	15.0	10.0	18.5	13.5	20.0	15.5	19.0	15.5	20.0	16.5	19.5	15.0
30	15.5	10.0	18.0	13.5	20.5	15.0	19.5	15.5	20.0	16.5	19.0	15.5
31	---	---	18.5	13.5	---	---	19.5	15.5	19.5	16.0	---	---
MONTH	16.5	8.5	19.0	10.5	20.5	13.0	21.0	14.5	21.0	15.0	20.0	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, temperature recorder at gaging station on right bank, 2.9 miles downstream from North Fork, 5.2 miles upstream from mouth, and 6.8 miles west of Navarro.
DRAINAGE AREA.--303 sq mi.
PERIOD OF RECORD.--Chemical analyses: January 1959 to July 1965, water year 1966 (partial-record station).
Water temperatures: October 1965 to September 1972.
EXTREMES.--1971-72:
Water temperatures: Minimum, 5.5°C Jan. 4, 5.
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.--Recorder stopped Oct. 12 to Nov. 4; probe inoperative June 7 to Sept. 30. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	14.5	--	--	8.5	8.0	8.5	8.5	6.5	6.5	10.5	10.0
2	18.5	14.5	--	--	8.0	8.0	8.5	8.0	6.5	6.5	11.0	10.0
3	19.0	14.5	--	--	8.0	8.0	8.0	7.5	6.5	6.0	11.5	11.0
4	20.0	15.0	--	10.0	8.0	8.0	7.5	6.0	7.5	6.5	12.0	11.5
5	20.0	15.5	10.0	8.0	8.0	7.5	6.0	5.5	8.0	7.5	12.5	12.0
6	19.0	15.5	9.5	8.0	7.5	7.5	6.0	5.5	9.0	8.0	12.5	11.5
7	20.0	16.0	9.0	8.0	7.5	7.5	6.5	6.0	9.5	9.0	13.0	12.0
8	19.5	16.0	9.0	8.5	7.5	6.5	7.0	6.5	9.5	9.5	12.5	11.5
9	18.5	16.0	9.5	8.0	7.0	6.5	7.0	7.0	9.5	9.5	11.5	11.5
10	18.0	16.0	11.0	9.5	7.0	7.0	7.0	7.0	9.5	9.0	12.5	11.5
11	19.0	15.5	11.5	10.5	7.5	7.0	7.5	7.0	9.0	9.0	13.5	12.5
12	--	17.5 --	11.5	10.5	7.5	7.5	8.5	7.5	9.0	9.0	14.5	13.5
13	--	-- --	11.0	10.0	7.5	7.5	8.5	8.0	9.5	9.0	15.0	14.0
14	--	-- --	10.0	9.0	7.5	7.0	8.0	7.5	9.5	9.5	14.5	13.5
15	--	-- --	9.0	7.5	7.5	7.0	7.5	7.5	11.0	9.5	15.0	13.5
16	--	-- --	7.5	7.0	7.0	6.5	7.5	6.5	11.5	10.5	16.5	14.0
17	--	-- --	7.5	7.0	6.5	6.5	7.0	6.5	11.0	10.0	15.5	14.5
18	--	-- --	7.5	7.0	6.5	6.5	7.5	7.0	11.0	10.0	15.0	14.0
19	--	-- --	7.5	7.0	6.5	6.0	8.0	7.5	11.0	10.0	14.5	13.5
20	--	-- --	7.0	6.5	6.5	6.0	9.0	8.0	12.5	11.0	14.5	12.5
21	--	-- --	7.0	6.5	7.0	6.5	9.5	9.0	11.0	10.5	14.5	13.0
22	--	-- --	8.0	7.0	8.0	7.0	10.0	9.5	10.5	10.0	14.0	13.0
23	--	-- --	8.5	8.0	8.0	7.5	10.0	9.5	10.0	10.0	13.0	12.0
24	--	-- --	9.5	8.5	8.0	7.5	9.5	8.5	10.0	10.0	12.5	12.0
25	--	-- --	9.5	9.0	8.0	8.0	8.5	8.5	10.0	10.0	12.5	11.5
26	--	-- --	9.5	9.0	8.0	8.0	8.5	8.0	11.0	10.0	11.5	10.5
27	--	-- --	9.0	9.0	8.0	8.0	8.0	7.0	11.5	11.0	11.5	10.0
28	--	-- --	9.0	9.0	8.0	7.5	7.0	7.0	11.5	11.5	13.0	10.5
29	--	-- --	9.0	8.5	8.0	7.5	7.0	7.0	11.5	10.5	13.5	11.5
30	--	-- --	8.5	8.5	8.5	8.0	7.0	6.5	--	--	13.5	11.5
31	--	-- --	--	--	8.5	8.5	6.5	6.5	--	--	13.0	12.0
MONTH	--	-- --	11.5	6.5	8.5	6.0	10.0	5.5	12.5	6.0	16.5	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	14.0	12.5	17.0	12.5	19.0	14.0	--	--	--	--	--	--
2	16.0	13.0	17.5	13.5	17.0	14.5	--	--	--	--	--	--
3	16.0	14.0	17.5	14.0	18.0	13.5	--	--	--	--	--	--
4	16.0	14.0	17.5	14.5	19.0	14.0	--	--	--	--	--	--
5	15.5	14.0	16.0	14.5	19.0	14.0	--	--	--	--	--	--
6	15.0	14.0	15.0	13.5	19.0	14.5	--	--	--	--	--	--
7	15.0	13.5	16.0	13.0	--	--	--	--	--	--	19.0	--
8	14.5	13.0	15.5	13.5	--	--	--	--	--	--	--	--
9	14.5	12.0	17.0	13.0	--	--	--	--	--	--	--	--
10	14.5	12.0	17.5	13.5	--	--	--	--	--	--	--	--
11	13.5	12.5	18.5	14.0	--	--	--	--	--	--	--	--
12	12.5	12.0	19.0	14.5	--	--	--	--	--	--	--	--
13	12.0	11.0	19.5	15.0	--	20.5	--	--	--	--	--	--
14	13.0	12.0	19.0	15.5	--	--	--	--	--	--	--	--
15	14.5	12.5	19.0	14.5	--	--	--	--	--	19.0	--	--
16	14.5	13.0	16.5	15.5	--	--	--	--	--	--	--	--
17	13.5	12.0	17.0	14.5	--	--	--	--	--	--	--	--
18	13.5	11.5	17.0	13.5	--	--	--	--	--	--	--	--
19	13.5	11.5	16.0	13.5	--	--	--	--	--	--	--	--
20	14.5	12.0	14.5	13.5	--	--	--	21.5	--	--	--	--
21	15.5	12.5	14.0	13.0	--	--	--	--	--	--	--	--
22	15.0	12.5	17.5	13.0	--	--	--	--	--	--	--	--
23	13.5	12.5	17.0	14.5	--	--	--	--	--	--	--	--
24	14.0	12.5	17.5	13.5	--	--	--	--	--	--	--	--
25	15.5	12.5	17.5	14.0	--	--	--	--	--	--	--	--
26	16.5	13.0	17.5	14.0	--	--	--	--	--	--	--	--
27	16.5	13.5	18.0	14.0	--	--	--	--	--	--	--	--
28	16.0	13.5	18.5	14.5	--	--	--	--	--	--	--	--
29	15.5	12.0	19.0	14.5	--	--	--	--	--	--	--	--
30	16.0	12.0	19.0	14.5	--	--	--	--	--	--	--	--
31	--	--	19.0	14.5	--	--	--	--	--	--	--	--
MONTH	16.5	11.0	19.5	12.5	--	--	--	--	--	--	--	--

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 mile downstream from South Fork, and 3.5 miles east of Fort Bragg.

DRAINAGE AREA.--106 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1959 to September 1965, water year 1966 (partial-record station). Water temperatures: December 1965 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 23.0°C July 14, 15, Aug. 21; minimum, 4.0°C Jan. 5, 6.

Period of record:
Water temperatures: Maximum, 23.0°C July 10, 1970, July 14, 15, Aug. 21, 1972; minimum (1965-69, 1970-72), 2.0°C Dec. 17-21, 1965.

REMARKS.--Recorder malfunction Mar. 16 to Apr. 5.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

11468600 MIDDLE FORK TENMILE RIVER NEAR FORT BRAGG, CALIF.

LOCATION.--Lat 39°34'22", long 123°41'57", in NE¼NE¼ sec.25, T.20 N., R.17 W., Mendocino County, temperature recorder at gaging station on right bank, 0.8 mile upstream from confluence with North Fork Tenmile River, and 10 miles northeast of Fort Bragg.
DRAINAGE AREA.--32.9 sq mi.
PERIOD OF RECORD.--Water temperatures: October 1964 to September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 21.0°C July 14; minimum, 4.5°C Jan. 4-6, 15, 16.
Period of record:
Water temperatures: Maximum, 21.0°C July 14, 1972; minimum (1964-65, 1966-72), 3.5°C Dec. 2, 1969.
REMARKS.--Recorder malfunction Oct. 9-13, Nov. 5-15, 18-20, Nov. 28 to Dec. 3, Dec. 7-9; recorder stopped July 29 to Sept. 7. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	14.0	11.5	9.5	7.5	--	--	7.0	6.0	7.5	6.5	10.5	9.5
2	14.0	11.0	9.5	8.5	--	--	7.5	6.0	7.0	5.5	11.0	10.5
3	14.5	12.0	9.0	7.5	--	--	6.5	5.0	9.0	6.5	12.0	11.0
4	14.5	12.5	9.0	7.0	9.0	8.5	5.5	4.5	9.5	8.5	12.5	11.5
5	14.5	12.5	--	9.0 --	10.5	9.0	5.5	4.5	10.0	9.0	12.5	11.0
6	14.5	13.0	--	--	10.0	8.5	6.0	4.5	10.5	9.5	12.0	11.0
7	15.0	13.0	--	--	--	--	7.0	5.5	10.0	9.0	12.5	11.0
8	15.0	13.5	--	--	--	--	7.0	6.0	10.0	9.0	13.0	11.0
9	--	--	--	--	--	--	7.0	6.0	9.0	8.0	12.0	11.5
10	--	--	--	--	9.5	8.5	6.5	5.5	9.0	7.0	12.0	11.0
11	--	--	--	--	9.0	8.0	7.0	5.5	9.0	7.0	13.0	11.5
12	--	--	--	--	9.5	9.0	8.0	6.5	9.5	7.5	13.5	12.0
13	--	--	--	--	9.0	8.0	7.5	6.0	10.0	8.0	13.5	12.0
14	14.0	13.0	--	--	9.0	8.0	6.5	5.0	10.0	8.5	13.0	11.5
15	13.0	11.5	--	9.0 --	8.0	6.5	6.0	4.5	10.5	9.0	13.5	11.0
16	12.5	10.5	8.0	6.5	7.0	6.0	6.5	4.5	11.0	9.0	14.0	11.5
17	12.0	9.5	8.5	7.0	7.0	6.0	7.0	5.0	10.0	8.0	14.0	11.5
18	12.0	10.0	--	--	7.5	6.0	8.5	6.5	10.0	8.0	13.5	11.5
19	12.5	11.5	--	--	7.0	6.0	8.5	8.0	11.0	9.5	13.5	11.0
20	13.5	11.5	--	--	7.0	6.0	9.5	8.5	12.0	10.0	13.0	11.0
21	12.5	10.5	9.0	7.0	8.5	7.0	10.5	9.5	10.5	9.0	13.5	11.5
22	12.5	10.5	10.0	9.0	9.5	8.5	11.0	10.5	10.0	9.0	12.0	10.5
23	13.5	11.5	11.0	9.5	10.0	8.5	11.0	10.0	10.0	9.0	12.0	10.0
24	12.5	10.5	11.5	10.5	10.0	9.0	10.0	9.0	10.5	10.0	10.5	9.5
25	11.5	9.5	11.0	10.0	9.0	8.5	10.0	9.0	10.5	9.5	11.0	8.5
26	12.0	10.0	11.0	10.5	9.0	8.5	9.0	8.0	11.5	10.5	10.5	8.0
27	12.0	10.0	11.5	10.5	9.0	7.5	8.5	7.5	12.0	11.0	10.5	8.0
28	10.0	7.5	--	--	8.0	7.0	9.0	7.5	12.0	11.0	11.0	8.0
29	8.5	6.5	--	--	9.0	8.0	8.5	7.0	11.0	10.0	11.5	8.5
30	9.0	7.5	--	--	8.5	7.5	7.5	6.5	--	--	11.5	8.0
31	9.5	8.0	--	--	8.0	6.5	7.5	6.0	--	--	11.5	9.5
MONTH	15.0	6.5	--	--	10.5	6.0	11.0	4.5	12.0	5.5	14.0	8.0

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	12.0	10.0	15.0	10.0	18.0	14.0	19.5	16.5	--	--	--	--
2	14.0	11.0	16.0	11.0	16.0	14.0	17.5	16.5	--	--	--	--
3	14.0	11.5	15.5	11.0	17.5	14.0	17.0	16.0	--	--	--	--
4	13.5	11.5	15.0	12.0	18.5	14.0	19.0	16.0	--	--	--	--
5	12.5	11.5	15.0	12.5	19.0	15.0	18.5	16.0	--	--	--	--
6	12.5	11.5	13.5	12.0	18.5	15.0	18.5	16.0	--	--	--	--
7	13.0	11.0	13.0	11.5	18.5	15.0	19.0	15.5	--	--	--	17.0 --
8	12.5	9.5	14.0	11.5	16.5	15.0	19.0	15.5	--	--	16.5	14.0
9	11.5	8.5	15.0	10.5	16.0	13.5	19.0	15.0	--	--	16.0	13.0
10	12.0	8.5	16.0	11.5	15.5	13.0	19.0	14.0	--	--	15.5	12.5
11	11.0	10.0	16.5	12.0	17.0	12.5	19.5	15.0	--	--	15.0	12.0
12	10.0	9.5	17.5	12.0	18.5	13.5	20.0	15.5	--	--	15.0	13.0
13	11.0	8.0	18.0	13.0	18.0	14.0	20.5	15.5	--	--	15.0	13.0
14	12.0	8.5	17.5	13.5	18.0	14.5	21.0	16.5	--	--	15.0	12.5
15	13.5	9.5	17.5	13.5	19.0	15.5	20.5	17.0	--	14.0 --	14.0	12.5
16	12.5	10.0	15.0	13.5	18.5	14.0	19.5	17.0	--	--	14.0	12.5
17	11.5	8.0	16.0	13.0	19.0	14.5	18.0	17.0	--	--	13.5	12.5
18	11.5	7.5	15.5	11.5	18.5	15.5	18.0	16.5	--	--	14.5	12.5
19	12.5	8.0	15.0	12.0	17.0	15.0	18.0	16.0	--	--	14.5	12.0
20	13.0	9.0	13.5	12.5	18.0	15.0	18.0	16.0	--	--	13.5	11.0
21	14.0	10.0	13.5	12.0	18.5	15.0	17.5	16.5	--	--	14.5	11.0
22	13.5	10.0	16.5	12.0	16.0	15.0	19.0	16.0	--	--	15.0	12.5
23	12.0	10.0	16.0	13.5	17.0	15.0	18.0	16.5	--	--	13.5	11.0
24	13.0	10.5	17.0	12.5	18.0	13.5	18.5	16.0	--	--	13.0	10.5
25	13.5	9.5	17.5	13.0	19.0	14.0	19.0	15.0	--	--	13.0	11.0
26	15.0	10.0	17.0	13.5	18.5	15.0	19.5	16.0	--	--	14.5	13.0
27	15.0	11.0	17.5	13.5	18.5	15.0	19.5	15.5	--	--	16.0	14.5
28	14.0	10.5	18.0	14.0	19.0	15.0	19.5	16.0	--	--	16.0	14.0
29	13.0	8.5	18.0	14.0	19.5	15.0	--	--	--	--	16.0	13.5
30	14.0	9.0	18.0	14.0	20.5	15.5	--	--	--	--	15.0	13.5
31	--	--	18.0	14.0	--	--	--	--	--	--	--	--
MONTH	15.0	7.5	18.0	10.0	20.5	12.5	21.0	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 mile upstream from Clear Creek, 1.5 miles southeast of Petrolia, and 1.7 miles upstream from North Fork.

DRAINAGE AREA.--240 sq mi.

PERIOD OF RECORD.--Chemical analyses: January 1959 to September 1968, water years 1969-72 (partial-record station). Water temperatures: November 1965 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 28.0°C July 13, 14; minimum, 5.0°C Jan. 4-6, Feb. 2.

Period of record:
Water temperatures: Maximum (1966-68, 1969-70, 1971-72), 28.0°C July 13, 14, 1972; minimum (1966-70, 1971-72), 3.0°C Jan. 9, 1969.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Oct. 1-12, Mar. 11, 12, 29, 30, Apr. 11-13, recorder malfunction.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
FEB.									
08...	1240	1660	15	3.3	5.2	.4	56	0	46
SEP.									
13...	1100	28	37	6.1	7.9	1.0	124	0	102

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED 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)	PERCENT SODIUM
FEB.									
08...	9.7	4.1	.11	94	.13	421	51	5	18
SEP.									
13...	26	5.2	.05	152	.21	11.5	117	15	13

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
FEB.						
08...	.3	127	7.6	10.0	--	100
SEP.						
13...	.3	264	8.0	20.0	1	100

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
FEB.						
08...	1240	1660	123	7.3	10.0	11.5
SEP.						
13...	1100	28	247	8.1	20.0	11.5

11469000 MATTOLE RIVER NEAR PETROLIA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	12.5	9.0	9.0	8.0	7.5	6.5	7.0	5.5	10.5	9.5
2	---	---	12.5	9.0	8.5	8.0	7.5	6.5	6.5	5.0	11.0	10.0
3	---	---	12.5	8.5	8.5	7.5	7.0	6.0	8.5	6.5	12.5	11.0
4	---	---	12.5	8.5	8.5	8.0	6.0	5.0	9.0	8.0	13.0	11.5
5	---	---	12.5	9.5	10.0	8.5	6.0	5.0	9.5	8.5	13.0	11.5
6	---	---	11.5	8.5	10.0	8.5	6.5	5.0	10.0	9.0	13.0	11.5
7	---	---	12.0	9.5	8.5	7.5	7.5	6.0	10.0	8.5	13.0	11.0
8	---	---	10.5	8.5	8.5	7.0	7.5	6.0	10.0	9.0	12.5	11.0
9	---	---	11.5	9.5	9.0	8.5	8.0	7.0	10.0	9.0	11.5	11.0
10	---	---	12.0	11.5	8.5	8.0	8.0	6.5	10.0	8.0	12.0	11.0
11	---	---	12.5	11.5	8.0	7.5	8.0	7.0	10.0	9.0	---	---
12	---	---	12.0	11.0	8.5	7.5	9.0	8.0	10.5	8.5	---	---
13	19.5	15.5	11.0	10.5	8.5	7.5	9.0	7.0	11.0	9.5	---	---
14	17.5	13.5	10.5	10.0	8.5	7.5	7.5	6.0	10.0	9.0	13.0	9.5
15	15.5	13.5	10.0	9.0	8.0	7.5	7.0	5.5	10.5	9.5	13.5	11.0
16	16.0	11.5	9.5	8.5	7.5	6.0	7.5	5.5	11.5	9.5	14.5	11.5
17	15.0	11.5	9.5	8.5	7.5	6.0	8.0	6.5	11.5	9.5	15.0	12.5
18	14.5	12.0	9.5	8.0	7.5	7.0	9.5	8.0	11.0	9.5	14.5	12.5
19	14.5	13.5	9.5	7.5	7.5	7.0	9.5	9.0	11.5	10.5	13.5	11.5
20	15.0	13.0	10.0	9.0	7.5	7.0	9.5	9.5	11.5	10.5	14.0	11.0
21	14.0	12.0	10.0	9.0	7.5	7.0	10.5	9.5	11.0	9.5	13.5	12.0
22	14.0	12.0	10.5	9.0	8.5	7.5	10.5	10.0	10.0	8.0	12.5	11.0
23	14.5	12.5	10.5	10.0	8.5	7.5	10.5	10.0	10.0	9.0	12.5	10.5
24	14.0	11.0	11.0	10.5	8.5	8.0	10.0	9.5	10.0	9.5	10.5	10.5
25	14.0	11.0	11.0	10.5	8.5	8.0	9.5	8.5	10.0	9.0	11.0	9.5
26	13.0	11.0	10.5	10.0	8.0	7.5	9.0	8.5	11.5	10.0	10.5	8.5
27	13.5	11.0	10.5	10.0	8.5	7.5	9.5	9.0	11.5	11.0	11.5	8.5
28	12.0	9.0	10.5	10.0	7.5	6.5	9.0	7.5	11.5	11.0	11.5	8.5
29	11.5	7.5	10.5	10.0	8.5	7.5	8.5	7.0	11.0	10.0	---	---
30	11.0	9.5	10.0	9.0	8.5	7.5	7.5	6.5	---	---	---	---
31	12.0	9.0	---	---	7.5	6.5	7.5	6.0	---	---	12.5	10.5
MONTH	---	---	12.5	7.5	10.0	6.0	10.5	5.0	11.5	5.0	15.0	8.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	11.0	16.5	11.5	23.0	16.5	25.5	20.5	24.5	19.5	26.5	21.0
2	15.5	12.0	17.5	12.5	21.0	17.5	26.0	20.5	24.5	19.5	26.0	21.0
3	15.5	13.0	18.5	13.5	23.0	17.5	25.5	20.5	24.5	19.5	25.5	20.5
4	16.5	13.5	19.0	14.5	23.5	17.0	25.0	20.5	24.5	20.5	26.0	21.0
5	14.5	12.5	19.0	14.0	24.0	18.5	24.0	20.0	25.5	20.0	26.0	21.0
6	13.0	12.0	16.5	14.0	23.5	18.5	25.5	19.5	26.0	20.5	24.5	20.0
7	13.5	11.5	16.0	14.0	23.5	18.5	25.0	19.0	27.0	20.5	25.0	19.5
8	13.5	11.5	16.0	13.0	23.0	18.5	25.0	19.0	27.5	21.5	24.0	19.5
9	13.0	10.5	18.0	13.0	21.0	18.0	25.0	19.0	25.5	21.5	22.5	18.0
10	13.0	10.0	18.5	13.5	18.5	16.5	25.0	19.0	25.5	20.5	22.0	16.5
11	12.5	11.0	19.0	14.0	21.0	16.0	26.5	20.0	25.5	20.5	21.0	16.5
12	---	---	21.0	14.5	22.5	16.0	27.0	21.0	24.5	19.5	21.5	17.0
13	---	---	21.5	16.0	24.0	17.0	28.0	21.5	24.5	19.0	21.5	16.5
14	13.0	9.5	21.0	16.5	24.5	18.0	28.0	21.5	24.0	19.5	21.5	17.0
15	14.0	10.5	20.5	16.0	23.5	18.0	26.5	21.5	23.5	19.0	21.5	17.5
16	13.0	11.0	18.0	15.5	22.5	17.0	26.5	21.0	23.5	19.0	22.0	17.5
17	12.0	9.0	17.0	14.0	24.0	17.0	26.0	21.5	24.5	18.5	21.5	18.0
18	12.5	8.5	16.0	13.0	25.0	18.0	24.0	20.5	24.5	19.5	20.5	18.0
19	13.0	9.0	18.0	13.0	23.5	19.0	23.0	19.0	25.5	19.5	22.0	18.0
20	14.5	10.0	16.0	14.5	24.0	18.5	26.0	20.5	26.5	21.0	20.5	16.0
21	14.5	11.5	18.0	13.5	24.5	18.5	25.5	21.0	25.5	21.5	20.5	16.5
22	14.5	10.5	20.0	14.5	24.5	18.5	25.0	20.0	25.5	20.5	21.5	17.5
23	12.5	11.5	19.5	14.5	21.5	18.5	26.0	21.0	25.5	20.5	20.0	16.0
24	13.0	10.5	20.0	14.5	24.0	17.5	25.5	19.0	24.5	19.5	20.5	15.5
25	14.5	11.0	20.0	14.5	24.0	17.5	25.0	19.5	25.5	20.0	18.0	15.0
26	16.0	11.0	21.5	16.0	25.0	17.5	25.0	19.5	25.0	21.0	18.0	17.5
27	17.0	12.5	21.5	16.0	24.5	19.0	25.5	19.5	25.0	21.0	19.0	16.5
28	15.5	12.5	21.5	17.0	25.0	19.0	25.5	20.5	25.0	21.0	21.0	17.0
29	14.5	10.0	22.5	16.5	25.0	19.0	25.0	20.5	25.0	21.0	21.5	16.5
30	15.5	10.5	22.0	16.0	26.5	20.0	25.0	19.5	25.5	20.5	21.0	17.0
31	---	---	22.0	16.0	---	---	24.0	19.5	27.0	21.0	---	---
MONTH	17.0	8.5	22.5	11.5	26.5	16.0	28.0	19.0	27.5	18.5	26.5	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 mile upstream from Soda Creek, 0.7 mile downstream from Scott Dam, and 9.7 miles northeast of town of Potter Valley.
DRAINAGE AREA.--290 sq mi.
PERIOD OF RECORD.--Water temperatures: October 1963 to September 1972.
Sediment records: Water years 1966-67 (partial-record station).
Turbidity: Water years 1966-67, 1969-71 (partial-record station).
EXTREMES.--1971-72:
Water temperatures: Maximum, 20.5°C Sept. 14-17; minimum, 5.0°C on many days during January.
Period of record:
Water temperatures: Maximum, 23.0°C on several days in 1967; minimum (1966-72), 4.5°C on several days in 1969.
REMARKS.--Recorder stopped May 5 to June 6; probe inoperative July 12 to Aug. 3.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	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	12.0	---	---	15.5	14.0	---	---	17.0	16.5
2	11.0	10.5	13.5	13.0	---	---	15.5	14.5	---	---	17.0	16.5
3	11.0	10.5	13.5	13.0	---	---	15.5	14.5	---	---	18.0	17.0
4	11.0	10.5	13.5	13.0	---	---	15.5	14.5	14.5	14.0	18.0	17.0
5	11.5	10.5	---	---	---	---	15.5	14.5	14.5	14.0	18.5	17.0
6	11.0	11.0	---	---	---	---	15.5	14.5	14.5	14.0	18.5	18.5
7	11.0	11.0	---	---	15.0	12.0	15.5	14.0	15.0	14.5	18.5	18.5
8	11.0	11.0	---	---	14.5	13.5	15.5	14.0	14.5	14.0	19.5	18.5
9	11.0	11.0	---	---	13.5	13.5	15.5	14.0	15.0	14.0	19.5	19.5
10	11.0	11.0	---	---	14.0	13.5	15.5	14.0	15.0	14.0	20.0	19.5
11	11.0	11.0	---	---	14.5	13.5	14.0	13.5	15.0	14.5	20.0	20.0
12	12.0	11.0	---	---	15.0	13.5	---	---	15.0	14.5	20.0	20.0
13	12.0	12.0	---	---	15.0	13.5	---	---	15.0	14.5	20.0	20.0
14	12.0	12.0	---	---	15.0	13.5	---	---	15.0	14.5	20.5	20.0
15	12.0	12.0	---	---	15.5	13.5	---	---	15.0	14.5	20.5	20.5
16	13.0	12.0	---	---	15.5	13.5	---	---	15.0	14.5	20.5	20.5
17	13.0	13.0	---	---	15.5	13.5	---	---	15.0	14.5	20.5	20.0
18	13.0	12.0	---	---	15.5	13.5	---	---	15.5	15.0	20.0	20.0
19	12.0	12.0	---	---	15.5	14.0	---	---	15.5	15.0	20.0	20.0
20	12.0	12.0	---	---	15.5	14.0	---	---	15.5	15.0	20.0	20.0
21	12.0	12.0	---	---	15.5	14.0	---	---	15.5	15.0	20.0	20.0
22	12.0	11.5	---	---	15.5	14.5	---	---	15.5	15.0	20.0	20.0
23	11.5	11.5	---	---	15.5	14.0	---	---	16.0	15.0	20.0	20.0
24	12.0	11.5	---	---	15.0	13.5	---	---	16.0	15.0	20.0	20.0
25	13.0	12.0	---	---	15.5	13.5	---	---	16.0	15.0	20.0	19.5
26	12.0	12.0	---	---	15.5	13.5	---	---	16.0	15.0	19.5	19.5
27	12.0	11.5	---	---	15.5	13.5	---	---	16.0	15.0	19.5	19.0
28	12.0	11.5	---	---	15.5	14.0	---	---	16.5	15.5	19.5	19.0
29	13.0	12.0	---	---	15.5	14.0	---	---	16.5	15.5	19.5	19.0
30	13.0	13.0	---	---	15.5	14.5	---	---	16.5	15.5	19.5	19.0
31	---	---	---	---	---	---	---	---	16.5	16.0	---	---
MONTH	13.0	10.5	---	---	15.5	12.0	---	---	16.5	14.0	20.5	16.5

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 downstream from powerhouse of Pacific Gas and Electric Company, 1.8 miles southwest of Van Arsdale Dam, and 2.9 miles 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 September 1972.
Sediment records: March 1964 to May 1968.
Turbidity: Water years 1964-71 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 24.0°C June 30, July 1; minimum, 3.0°C Jan. 9, 10, 14, 15.

Period of record:
Water temperatures (1964-65, 1966-72): Maximum (1967-72), 24.5°C Aug. 10-12, 1971; minimum, 3.0°C Jan. 9, 10, 14, 15, 1972.

REMARKS.--Recorder stopped Oct. 10-13, Dec. 13 to Jan. 5, Sept. 1-6, 25-30. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT			NOV			DEC			JAN			FEB			MAR		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	17.0	--	13.5	12.5	--	10.0	9.5	--	8.0	--	--	--	5.5	--	3.5	8.0	--	7.5
2	17.0	--	14.0	12.5	--	10.5	9.5	--	8.5	--	--	--	5.0	--	3.5	8.0	--	7.5
3	17.5	--	15.0	12.5	--	10.0	9.0	--	7.5	--	--	--	5.5	--	4.5	8.0	--	7.5
4	18.0	--	15.5	12.0	--	10.0	8.5	--	8.0	--	--	--	5.5	--	5.0	9.0	--	7.5
5	18.0	--	15.5	12.0	--	10.0	9.5	--	8.0	--	--	--	5.5	--	5.0	10.0	--	8.0
6	18.5	--	15.5	12.0	--	9.5	9.5	--	6.5	5.0	--	3.5	6.0	--	5.5	10.5	--	7.5
7	18.5	--	16.0	12.0	--	10.0	8.0	--	6.5	5.0	--	4.0	6.0	--	4.5	11.0	--	9.0
8	18.5	--	15.0	11.5	--	10.0	7.0	--	6.0	4.5	--	3.5	6.0	--	5.0	11.0	--	8.5
9	18.0	--	15.5	11.0	--	10.5	7.5	--	5.0	4.5	--	3.0	6.5	--	4.5	10.0	--	8.0
10	--	--	--	12.0	--	11.0	6.5	--	5.0	4.5	--	3.0	6.5	--	4.0	10.0	--	8.5
11	--	--	--	12.5	--	11.5	7.0	--	5.5	4.5	--	3.5	6.5	--	4.5	10.5	--	9.0
12	--	--	--	12.0	--	11.0	6.5	--	6.0	5.0	--	4.0	7.0	--	5.0	10.5	--	8.5
13	--	--	--	11.0	--	10.5	--	--	--	5.0	--	3.5	7.5	--	6.0	10.5	--	8.0
14	17.5	--	16.0	10.5	--	9.0	--	--	--	5.0	--	3.0	7.0	--	5.5	10.0	--	7.5
15	16.0	--	14.0	10.5	--	8.5	--	--	--	5.0	--	3.0	7.0	--	5.5	10.5	--	7.5
16	16.0	--	13.0	10.5	--	8.5	--	--	--	4.5	--	3.5	7.5	--	5.0	11.0	--	7.5
17	15.5	--	12.5	10.5	--	9.0	--	--	--	5.0	--	3.5	7.0	--	5.0	11.0	--	7.5
18	15.5	--	13.0	10.0	--	9.0	--	--	--	6.0	--	4.5	7.5	--	5.5	10.5	--	7.5
19	15.0	--	14.0	10.5	--	8.5	--	--	--	6.0	--	5.0	7.5	--	6.0	10.0	--	7.0
20	15.0	--	13.0	10.5	--	9.0	--	--	--	6.0	--	5.5	9.0	--	7.0	10.0	--	7.5
21	15.5	--	12.5	10.5	--	9.0	--	--	--	7.5	--	6.0	8.5	--	6.5	10.0	--	7.5
22	15.0	--	13.0	10.5	--	9.5	--	--	--	8.5	--	7.5	7.0	--	6.0	9.5	--	8.5
23	15.5	--	13.5	10.5	--	9.5	--	--	--	8.5	--	7.0	7.0	--	6.0	10.5	--	7.5
24	14.5	--	12.0	11.0	--	10.5	--	--	--	7.0	--	5.5	7.0	--	6.5	9.5	--	8.0
25	14.0	--	11.5	11.0	--	9.5	--	--	--	6.5	--	5.5	7.5	--	7.0	10.0	--	7.5
26	14.5	--	11.5	10.5	--	10.0	--	--	--	5.5	--	4.5	8.0	--	7.0	9.5	--	6.5
27	14.0	--	12.0	11.0	--	10.0	--	--	--	6.0	--	4.0	8.5	--	7.0	10.0	--	6.5
28	13.0	--	10.5	10.5	--	10.0	--	--	--	6.0	--	5.0	8.5	--	7.5	10.5	--	7.0
29	10.5	--	9.0	10.5	--	9.5	--	7.0	--	5.5	--	4.0	8.5	--	6.5	11.0	--	7.0
30	12.0	--	10.0	10.0	--	9.0	--	--	--	5.5	--	4.0	--	--	--	11.5	--	7.5
31	12.5	--	10.0	--	--	--	--	--	--	5.5	--	3.5	--	--	--	10.5	--	8.5
MONTH	18.5	--	9.0	12.5	--	8.5	--	--	--	8.5	--	3.0	9.0	--	3.5	11.5	--	6.5

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	11.0	--	9.0	16.0	--	11.0	20.5	--	16.5	24.0	--	21.5	19.0	--	14.0	--	--	--
2	13.0	--	9.5	16.5	--	12.0	20.5	--	16.5	23.5	--	22.5	19.0	--	14.5	--	--	--
3	12.5	--	9.0	16.5	--	12.0	19.5	--	15.0	23.5	--	22.0	19.0	--	14.5	--	--	--
4	12.0	--	9.5	16.5	--	12.0	21.0	--	16.0	23.5	--	22.0	19.5	--	14.5	--	--	--
5	12.0	--	10.5	16.5	--	13.0	21.5	--	17.0	23.5	--	22.0	19.5	--	15.0	--	--	--
6	12.0	--	10.5	16.0	--	12.5	21.5	--	17.5	23.5	--	21.5	19.0	--	14.5	--	--	--
7	12.0	--	9.5	15.0	--	12.5	21.5	--	18.0	22.5	--	21.0	19.5	--	15.0	21.0	--	17.0
8	11.5	--	9.0	15.0	--	11.5	21.0	--	18.0	22.0	--	20.5	19.5	--	17.5	21.0	--	17.0
9	12.0	--	8.5	16.0	--	12.0	20.5	--	16.5	21.5	--	20.5	20.0	--	18.5	21.0	--	17.0
10	12.0	--	9.0	16.5	--	12.0	16.5	--	14.0	21.5	--	20.0	20.5	--	18.5	20.5	--	17.0
11	11.0	--	9.5	16.5	--	12.0	18.5	--	13.5	21.5	--	16.0	20.5	--	18.5	20.5	--	17.0
12	10.0	--	8.5	17.0	--	12.0	20.5	--	15.5	19.5	--	15.0	20.0	--	17.5	21.0	--	17.0
13	13.0	--	9.5	17.0	--	12.5	21.0	--	16.5	19.5	--	14.5	19.5	--	17.0	21.0	--	17.0
14	13.0	--	9.0	17.0	--	12.5	21.5	--	17.5	19.5	--	14.5	19.0	--	17.0	21.5	--	17.5
15	13.5	--	9.5	16.5	--	12.0	21.0	--	17.5	19.5	--	15.0	18.5	--	16.5	21.5	--	17.5
16	13.0	--	9.5	16.0	--	12.5	21.5	--	18.0	19.5	--	15.0	17.5	--	16.0	21.5	--	18.0
17	13.0	--	9.5	16.0	--	12.0	22.0	--	18.0	19.5	--	15.5	18.5	--	15.5	21.5	--	18.0
18	13.0	--	9.5	16.0	--	12.0	22.5	--	18.5	19.5	--	15.5	19.0	--	17.0	20.5	--	18.5
19	13.0	--	8.5	15.0	--	12.5	23.0	--	19.5	19.5	--	15.0	19.0	--	17.0	21.0	--	18.0
20	13.5	--	9.0	13.5	--	12.0	23.0	--	19.5	18.5	--	14.5	19.5	--	17.0	20.5	--	17.0
21	14.0	--	9.5	12.5	--	11.5	22.5	--	19.0	18.5	--	14.5	20.0	--	17.5	20.5	--	17.5
22	13.5	--	9.5	16.5	--	11.5	22.0	--	19.0	18.5	--	14.5	20.0	--	18.0	21.0	--	18.0
23	12.5	--	10.0	17.0	--	13.0	22.0	--	18.0	18.5	--	14.0	20.0	--	18.0	19.5	--	16.5
24	12.0	--	10.0	17.0	--	13.0	20.5	--	16.5	18.5	--	14.0	20.0	--	18.0	19.0	--	16.5
25	14.5	--	10.0	17.5	--	13.5	21.5	--	17.5	18.5	--	14.0	20.0	--	18.0	--	--	--
26	15.0	--	10.0	18.0	--	14.0	22.0	--	18.5	18.5	--	14.0	20.5	--	18.0	--	--	--
27	15.5	--	10.5	19.5	--	15.0	23.0	--	19.0	19.0	--	14.0	20.5	--	18.5	--	--	--
28	14.0	--	11.0	19.5	--	15.5	23.0	--	19.5	19.0	--	14.0	20.5	--	19.0	--	--	--
29	14.5	--	9.5	20.0	--	16.0	23.5	--	20.0	19.0	--	14.5	20.5	--	19.0	--	--	--
30	15.5	--	10.5	20.0	--	15.5	24.0	--	21.0	19.0	--	14.0	21.0	--	18.5	--	--	--
31	--	--	--	20.5	--	16.5	--	--	--	19.0	--	14.0	20.5	--	18.0	--	--	--
MONTH	15.5	--	8.5	20.5	--	11.0	24.0	--	13.5	24.0	--	14.0	21.0	--	14.0	--	--	--

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 upstream from Outlet Creek, and 6.3 miles south of Dos Rios.

DRAINAGE AREA.--528 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), October 1958 to September 1972.
Water temperatures: October 1966 to September 1972.
Sediment records: October 1966 to September 1972.
Turbidity: Water years 1967-68 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 31.0°C July 17; minimum, 4.0°C Jan. 11.
Sediment concentrations: Maximum daily, 1,010 mg/l Jan. 23; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 19,300 tons Jan. 23; minimum daily, 0.01 ton on many days.

Period of record:
Water temperatures (1966-67, 1968-72): Maximum (1971-72), 31.0°C July 17, 1972; minimum, 1.5°C Dec. 29, 1966, Jan. 6, 1970.
Sediment concentrations: Maximum daily, 3,590 mg/l Jan. 21, 1967; minimum daily, 0 mg/l on several days in 1969 and 1970.
Sediment discharge: Maximum daily, 351,000 tons Jan. 24, 1970; minimum daily, 0 tons on several days in 1969 and 1970.

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 1971 TO SEPTEMBER 1972

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)	DISSOLVED NITRATE (N) (MG/L)
OCT.								
21...	0900	18	--	--	--	--	--	--
NOV.								
11...	0830	37	7.2	123	0	101	4.6	.02
16...	0735	70	--	--	--	--	--	.01
DEC.								
15...	1015	309	6.6	69	0	57	2.7	.25
JAN.								
10...	1600	76	--	--	--	--	--	.01
12...	0900	79	6.4	91	0	75	3.6	.02
24...	1715	2500	--	--	--	--	--	.07
FEB.								
09...	1030	949	5.6	74	0	61	1.9	.02
MAR.								
08...	0845	1760	--	--	--	--	--	--
09...	0915	1500	--	--	--	--	--	.00
APR.								
12...	0915	1750	--	--	--	--	--	--
MAY								
03...	0745	113	6.0	98	0	80	3.0	.00
03...	1230	99	--	--	--	--	--	.10
31...	0730	53	--	--	--	--	--	.05
JUNE								
07...	0830	36	--	--	--	--	--	--
JULY								
13...	0745	8.5	--	--	--	--	--	--
AUG.								
03...	0745	5.4	--	--	--	--	--	--
SEP.								
14...	0800	3.5	11	109	0	89	--	--

DATE	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT.									
21...	--	--	--	--	--	--	--	--	--
NOV.									
11...	--	--	--	--	--	--	--	114	13
16...	.00	.01	.09	.18	.27	.07	.03	--	--
DEC.									
15...	--	--	--	--	--	--	--	64	7
JAN.									
10...	.00	.01	.02	.20	.22	.03	.00	--	--
12...	--	--	--	--	--	--	--	83	8
24...	.00	.07	.19	.11	.30	.20	.02	--	--
FEB.									
09...	--	--	--	--	--	--	--	62	1
MAR.									
08...	--	--	--	--	--	--	--	--	--
09...	.00	.00	.18	.04	.22	.04	.02	--	--
APR.									
12...	--	--	--	--	--	--	--	--	--
MAY									
03...	--	--	--	--	--	--	--	86	6
03...	.00	.10	.06	.01	.07	.04	.00	--	--
31...	.00	.05	.04	.01	.05	.11	.11	--	--
JUNE									
07...	--	--	--	--	--	--	--	--	--
JULY									
13...	--	--	--	--	--	--	--	--	--
AUG.									
03...	--	--	--	--	--	--	--	--	--
SEP.									
14...	--	--	--	--	--	--	--	101	12

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.						
21...	--	--	--	12.0	0	--
NOV.						
11...	.3	246	8.0	10.5	--	--
16...	--	243	--	6.0	--	4.0
DEC.						
15...	.4	154	7.5	4.0	--	--
JAN.						
10...	--	--	--	4.5	--	.5
12...	.3	192	7.7	4.5	--	--
24...	--	--	--	6.0	--	1.5
FEB.						
09...	.3	143	7.6	6.0	10	--
MAR.						
08...	--	--	--	10.0	16	--
09...	--	--	--	11.0	--	.5
APR.						
12...	--	--	--	9.0	80	--
MAY						
03...	.3	191	7.9	16.0	1	--
03...	--	--	--	19.0	--	.0
31...	--	--	--	20.5	--	.5
JUNE						
07...	--	--	--	22.5	0	--
JULY						
13...	--	--	--	22.0	0	--
AUG.						
03...	--	--	--	23.0	0	--
SEP.						
14...	.5	253	7.8	18.0	0	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.						
21...	0900	18	249	7.9	12.0	10.3
NOV.						
11...	0830	37	236	7.8	10.5	10.7
16...	0735	70	243	--	6.0	--
DEC.						
15...	1015	309	158	7.4	4.0	13.0
JAN.						
12...	0900	79	205	7.5	4.5	12.8
FEB.						
09...	1030	949	137	7.4	6.0	11.9
MAR.						
08...	0845	1760	129	7.4	10.0	10.5
APR.						
12...	0915	1750	133	7.6	9.0	11.2
MAY						
03...	0745	113	189	7.8	16.0	9.9
JUNE						
07...	0830	36	210	7.9	22.5	8.6
JULY						
13...	0745	8.5	251	8.0	22.0	7.7
AUG.						
03...	0745	5.4	256	8.0	23.0	7.9
SEP.						
14...	0800	3.5	233	8.0	18.0	8.5

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
NOV.									
16...	0735	.00	.0	.00	.00	.00	--	.00	.00
JAN.									
10...	1600	.00	.0	.00	.00	.00	.00	.00	.00
24...	1715	.00	.0	.00	.00	.00	.00	.00	.00
MAR.									
07...	0945	.00	.0	.00	.00	.00	.00	.00	.00
MAY									
03...	1230	.00	.0	.00	.00	.00	.00	.00	.00

DATE	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
NOV.									
16...	.00	.00	.00	--	--	--	.00	.00	.00
JAN.									
10...	.00	.00	.00	.00	.00	.00	.00	.00	.00
24...	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR.									
07...	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY									
03...	.00	.00	.00	.00	.00	.00	.00	.00	.00

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV.									
11...	0830	--	300	--	--	--	--	--	--
16...	0735	2	--	0	0	0	0	0	20
DEC.									
15...	1015	--	300	--	--	--	--	--	--
JAN.									
10...	1600	1	--	1	0	2	1	5	8
12...	0900	--	200	--	--	--	--	--	--
24...	1715	3	--	0	0	0	3	1	8
FEB.									
09...	1030	--	200	--	--	--	--	--	--
MAR.									
09...	0915	4	--	0	0	0	1	3	20
MAY									
03...	0745	--	200	--	--	--	--	--	--
03...	1230	1	--	0	0	1	1	3	20
31...	0730	0	--	0	0	0	10	0	8
SEP.									
14...	0800	--	500	--	--	--	--	--	--

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	8.0	6.0	5.0	9.0	12.5	14.0	---	26.0	25.5	23.0
2	---	11.5	7.5	7.0	5.5	9.5	17.5	18.0	23.0	---	---	---
3	---	---	6.0	5.0	5.0	11.5	16.5	18.0	---	30.0	26.5	25.0
4	---	12.0	5.0	4.5	6.0	10.5	17.5	23.0	---	---	---	---
5	---	---	7.0	5.0	6.5	12.0	14.0	19.5	24.0	30.0	25.0	25.0
6	20.0	13.5	7.0	5.5	5.0	11.0	12.5	17.0	---	---	---	---
7	---	10.0	5.0	5.5	8.0	11.0	13.5	18.0	26.0	26.0	27.0	22.0
8	---	10.0	6.0	5.5	7.0	13.0	12.0	15.0	---	---	---	---
9	---	10.0	6.0	7.0	7.0	11.0	12.5	18.0	21.5	25.5	25.5	22.0
10	---	13.0	6.0	6.0	7.5	12.0	14.0	19.0	---	---	---	---
11	---	13.0	6.5	4.0	8.0	12.5	12.0	19.0	---	25.0	26.0	21.5
12	---	10.5	6.5	5.5	8.5	13.0	10.5	23.0	20.5	---	---	---
13	18.5	10.5	5.0	7.0	7.5	14.5	8.5	21.0	---	28.0	---	21.0
14	---	9.0	7.0	6.5	9.0	15.0	12.0	23.5	22.0	---	22.5	---
15	---	9.0	6.0	6.5	9.0	15.0	13.5	21.0	---	30.0	---	23.0
16	---	9.0	6.0	5.0	9.5	14.5	12.0	19.5	23.5	---	21.5	---
17	---	8.5	6.5	6.5	9.5	13.0	10.5	18.0	---	31.0	---	23.0
18	---	8.0	5.0	8.5	10.5	13.0	11.0	18.0	25.0	28.5	24.0	---
19	12.5	6.5	6.0	10.0	10.5	12.5	15.0	16.0	---	---	---	22.5
20	14.0	10.0	5.0	9.0	12.0	14.0	13.0	15.0	28.0	24.0	24.5	---
21	---	9.0	5.0	10.0	10.0	15.5	14.0	15.0	---	---	---	22.0
22	---	11.5	7.5	11.0	8.5	12.5	14.5	17.0	27.0	24.0	25.0	---
23	14.5	9.5	6.0	9.0	8.5	11.0	14.0	16.0	---	---	---	16.5
24	---	10.5	7.5	7.0	8.5	11.0	12.0	18.0	26.0	26.5	23.5	---
25	---	10.0	6.5	6.5	8.5	11.5	12.5	20.5	---	---	---	18.0
26	---	10.0	6.0	5.5	9.5	10.5	16.0	22.0	24.0	25.5	27.0	18.0
27	---	10.0	6.0	5.0	11.0	12.0	15.5	22.0	---	---	---	18.0
28	---	9.5	5.0	5.5	11.5	11.0	14.0	---	27.0	26.0	26.0	---
29	---	10.0	6.0	5.5	9.5	9.0	14.5	25.0	---	---	---	21.0
30	10.0	7.5	7.0	5.0	---	12.5	16.0	---	24.0	25.5	25.5	---
31	---	---	7.5	5.5	---	12.0	---	26.0	---	---	---	---
MONTH	---	10.0	6.0	6.5	8.5	12.0	13.5	19.0	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	25	1	.07	25	1	.07	55	38	5.6
2	18	1	.05	18	1	.05	125	67	30
3	11	1	.03	14	1	.04	335	78	69
4	9.0	1	.02	12	1	.03	268	25	18
5	8.4	1	.02	11	1	.03	122	21	9.8
6	7.9	1	.02	18	1	.05	747	364	746
7	7.3	1	.02	25	1	.07	406	66	72
8	6.8	1	.02	25	1	.07	181	10	4.9
9	6.8	1	.02	27	1	.07	286	16	15
10	7.9	1	.02	31	1	.08	350	18	17
11	8.4	1	.02	34	2	.18	350	14	13
12	6.8	1	.02	37	2	.20	1270	98	379
13	5.7	1	.02	99	8	2.3	879	71	169
14	5.3	1	.01	177	12	6.7	395	28	30
15	4.9	1	.01	97	4	1.0	310	20	17
16	5.3	1	.01	87	2	.47	204	10	5.5
17	5.7	2	.03	53	3	.43	155	7	2.9
18	6.0	2	.03	53	2	.29	134	5	1.8
19	8.2	2	.04	49	2	.26	119	5	1.6
20	11	1	.03	36	1	.10	104	5	1.4
21	19	1	.05	25	1	.07	99	10	3.0
22	34	1	.09	24	1	.06	2330	746	4990
23	22	1	.06	22	1	.06	1470	110	437
24	18	1	.05	21	2	.11	1550	199	996
25	16	1	.04	22	21	1.2	1330	67	241
26	28	1	.08	131	27	11	689	25	47
27	18	2	.10	145	9	3.8	612	15	25
28	19	2	.10	259	28	25	406	10	11
29	24	2	.13	315	32	28	291	9	7.1
30	27	2	.15	119	19	6.9	242	6	3.9
31	33	2	.18	--	--	--	208	5	2.8
TOTAL	433.4	--	1.54	2011	--	88.69	16022	--	8372.3

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	185	4	2.0	612	12	20	4120	160	1780
2	177	4	1.9	492	10	13	3540	138	1330
3	177	2	.96	423	10	11	4200	166	1880
4	145	3	1.2	1250	98	354	3620	98	958
5	131	2	.71	1920	76	394	2920	70	552
6	116	2	.63	1780	47	226	2370	50	320
7	107	2	.58	1440	26	101	1970	36	191
8	99	2	.53	1160	20	63	1730	25	117
9	102	1	.28	935	18	45	1550	22	92
10	87	3	.70	781	10	21	1530	21	87
11	82	2	.44	650	8	14	1410	22	84
12	79	3	.64	558	8	12	708	16	31
13	77	2	.42	486	6	7.9	520	9	13
14	79	2	.43	450	7	8.5	432	7	8.2
15	75	2	.41	395	12	13	366	9	8.9
16	70	3	.57	360	6	5.8	352	8	7.6
17	68	2	.37	335	6	5.4	322	4	3.5
18	68	1	.18	291	5	3.9	304	3	2.5
19	92	5	1.2	259	5	3.5	291	4	3.1
20	237	7	5.1	291	6	4.7	269	6	4.4
21	2520	289	2490	335	7	6.3	252	4	2.7
22	5460	510	10800	1620	261	1640	812	39	96
23	7010	1010	19300	3480	293	2790	741	22	44
24	2760	138	1030	5030	390	5320	526	22	38
25	2660	102	733	4510	311	3990	832	29	65
26	2090	56	316	5500	322	4850	552	15	22
27	1660	38	170	4130	145	1620	448	7	8.5
28	1260	30	102	4420	406	5710	397	5	5.4
29	963	23	60	5990	585	9700	361	10	9.7
30	823	17	38	--	--	--	339	5	4.6
31	708	14	27	--	--	--	322	3	2.6
TOTAL	30167	--	35085.25	49883	--	36953.0	38106	--	7771.7

	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	300	3	2.4	169	4	1.8	46	2	.25
2	286	4	3.1	133	2	.72	42	2	.23
3	264	3	2.1	110	2	.59	41	2	.22
4	273	4	2.9	105	2	.57	40	2	.22
5	402	142	274	99	2	.53	39	2	.21
6	721	243	503	93	2	.50	37	2	.20
7	559	28	42	91	2	.49	36	1	.10
8	427	9	10	93	2	.50	36	1	.10
9	374	3	3.0	173	3	1.4	40	2	.22
10	300	4	3.2	93	2	.50	44	2	.24
11	572	63	122	83	4	.90	43	1	.12
12	1980	182	1120	74	2	.40	40	1	.11
13	2630	122	866	71	2	.38	37	1	.10
14	1470	30	119	71	2	.38	36	1	.10
15	1250	15	51	69	1	.19	34	1	.09
16	1120	11	33	96	3	.78	32	1	.09
17	1020	11	30	74	1	.20	31	2	.17
18	953	10	26	69	2	.37	31	2	.17
19	585	8	13	64	2	.35	29	2	.16
20	471	6	7.6	96	2	.52	28	2	.15
21	412	5	5.6	110	1	.30	28	2	.15
22	388	5	5.2	91	1	.25	26	1	.07
23	335	5	4.5	74	2	.40	25	1	.07
24	383	7	7.2	80	2	.43	25	2	.14
25	454	5	6.1	83	2	.45	25	1	.07
26	313	3	2.5	91	2	.49	25	1	.07
27	245	4	2.6	76	2	.41	23	2	.12
28	211	3	1.7	69	1	.19	22	4	.24
29	226	3	1.8	64	1	.17	19	3	.15
30	214	2	1.2	55	2	.30	16	2	.09
31	--	--	--	51	3	.41	--	--	--
TOTAL	19138	--	3271.7	2770	--	15.87	976	--	4.42

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	16	1	.04	6.3	1	.02	3.5	1	.01
2	16	2	.09	5.1	1	.01	3.1	1	.01
3	14	2	.08	5.7	1	.02	3.1	1	.01
4	14	2	.08	5.1	1	.01	3.1	1	.01
5	14	3	.11	5.1	1	.01	3.1	1	.01
6	14	3	.11	4.5	1	.01	3.1	1	.01
7	12	2	.06	5.1	2	.03	3.1	1	.01
8	12	3	.10	4.5	2	.02	3.1	1	.01
9	11	4	.12	4.5	3	.04	3.5	1	.01
10	9.5	3	.08	4.5	3	.04	3.5	1	.01
11	9.5	2	.05	4.5	1	.01	3.5	1	.01
12	9.5	1	.03	4.5	1	.01	3.5	1	.01
13	8.5	1	.02	4.5	1	.01	3.5	1	.01
14	8.5	2	.05	4.5	2	.02	3.1	1	.01
15	7.5	2	.04	4.5	2	.02	2.7	2	.01
16	6.9	2	.04	5.7	1	.02	2.7	2	.01
17	6.9	1	.02	9.5	1	.03	2.7	1	.01
18	6.3	1	.02	9.5	1	.03	3.5	1	.01
19	5.7	1	.02	8.5	1	.02	3.5	1	.01
20	5.7	1	.02	8.5	1	.02	3.5	1	.01
21	6.3	1	.02	7.5	1	.02	3.5	1	.01
22	6.9	1	.02	6.9	1	.02	4.0	1	.01
23	6.9	1	.02	6.3	1	.02	4.0	1	.01
24	7.5	1	.02	5.1	2	.03	4.0	1	.01
25	7.5	1	.02	4.5	2	.02	4.0	1	.01
26	6.9	1	.02	4.0	2	.02	20	11	1.4
27	6.9	1	.02	4.0	2	.02	188	266	144
28	6.9	1	.02	4.0	1	.01	55	178	26
29	6.3	1	.02	4.0	1	.01	29	138	11
30	6.3	1	.02	3.5	1	.01	23	110	6.8
31	6.3	1	.02	3.1	1	.01	--	--	--
TOTAL	282.2	--	1.40	167.5	--	.59	398.9	--	189.45

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 160355.0
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 91755.91

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.								
06...	1308	7.0	637	212	365	--	--	--
12...	1140	6.5	1640	133	589	--	--	--
22...	0925	7.5	2910	1200	9430	42	51	64
23...	0920	6.0	1570	121	513	--	--	--
JAN.								
21...	1335	10.0	3170	372	3180	25	43	60
22...	1652	11.0	7370	579	11500	32	48	58
FEB.								
24...	1135	8.5	5380	456	6620	22	33	44
SEP.								
27...	1055	18.0	192	283	147	--	--	--

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
DEC.								
06...	--	--	99	100	--	--	--	--
12...	--	--	95	100	--	--	--	--
22...	76	84	92	95	98	99	100	--
23...	--	--	93	100	--	--	--	--
JAN.								
21...	73	79	94	97	99	100	--	--
22...	81	88	90	94	99	100	--	--
FEB.								
24...	56	69	77	79	86	97	99	100
SEP.								
27...	--	--	100	--	--	--	--	--

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
FEB.							
15...	1300	9.0	1	390	1	3	5
15...	1305	9.0	1	390	--	--	1
15...	1310	9.0	1	390	1	2	4

DATE	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIFVE 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
FEB.						
15...	13	38	79	100	--	--
15...	1	3	5	15	42	100
15...	6	7	11	16	37	100

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 miles upstream from Middle Fork, and 2.1 miles south of Dos Rios.
DRAINAGE AREA.--705 sq mi.
PERIOD OF RECORD.--Water temperatures: October 1957 to September 1959, October 1960 to September 1965, May 1966 to September 1972.
Sediment records: Water year 1957 (partial-record station), October 1957 to September 1965.
EXTREMES.--1971-72:
Water temperatures: Minimum, 3.0°C Jan. 5, 6, Feb. 2.
Period of record:
Water temperatures: Maximum (1962-66), 29.0°C June 15, 1966; minimum (1962-67, 1971-72), 3.0°C Dec. 28, 1966, Jan. 5, 6, Feb. 2, 1972.
REMARKS.--Probe inoperative Oct. 1 to Nov. 25; recorder malfunction Apr. 10 to Aug. 23.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	7.5	7.5	6.0	5.5	5.0	3.5	8.5	7.5
2	---	---	---	---	7.5	6.5	5.5	5.0	4.5	3.0	9.0	8.0
3	---	---	---	---	6.5	5.5	5.5	4.5	5.0	4.0	10.0	9.0
4	---	---	---	---	5.5	4.5	4.5	3.5	6.0	5.0	10.5	9.5
5	---	---	---	---	6.5	5.5	4.0	3.0	7.0	6.0	10.5	10.0
6	---	---	---	---	8.0	6.5	4.0	3.0	7.5	7.0	10.5	10.0
7	---	---	---	---	6.5	5.5	4.5	3.5	7.5	7.0	12.0	10.0
8	---	---	---	---	5.5	4.0	4.5	3.5	7.5	7.0	12.5	11.0
9	---	---	---	---	6.5	5.5	4.5	3.5	8.0	7.0	11.5	10.5
10	---	---	---	---	6.0	5.0	4.5	3.5	8.0	6.5	10.5	10.0
11	---	---	---	---	5.5	5.0	4.5	3.5	8.0	7.0	11.5	10.5
12	---	---	---	---	5.5	5.0	5.0	4.5	8.5	7.5	13.0	11.5
13	---	---	---	---	5.5	5.0	6.5	5.0	9.0	8.0	14.5	12.5
14	---	---	---	---	5.5	5.0	6.0	5.0	8.5	8.0	14.5	12.5
15	---	---	---	---	5.5	5.0	5.5	4.5	9.5	7.5	15.0	13.5
16	---	---	---	---	5.0	3.5	5.0	4.5	10.0	8.0	15.0	13.0
17	---	---	---	---	4.5	4.0	6.0	4.5	10.0	8.0	15.0	13.0
18	---	---	---	---	5.0	4.5	7.0	6.0	9.5	8.5	14.5	12.5
19	---	---	---	---	5.0	4.5	7.5	7.0	10.0	9.0	13.5	11.5
20	---	---	---	---	5.0	4.5	8.0	7.5	11.0	9.5	13.5	11.0
21	---	---	---	---	4.5	4.0	9.0	8.0	10.5	9.0	13.0	12.0
22	---	---	---	---	6.5	4.5	9.5	9.0	9.0	7.5	13.0	10.5
23	---	---	---	---	6.5	6.0	9.0	7.5	8.0	7.5	11.5	9.5
24	---	---	---	---	6.5	6.5	8.0	6.5	8.0	8.0	11.0	10.0
25	---	---	---	---	6.5	5.5	6.5	6.0	8.0	7.5	10.0	9.0
26	---	---	10.5	8.0	5.5	5.0	6.0	5.0	9.5	8.0	9.5	8.0
27	---	---	9.5	9.0	5.5	5.0	5.0	4.0	10.0	9.0	10.5	8.0
28	---	---	9.5	9.0	5.5	5.0	5.0	4.0	10.5	10.0	11.0	8.5
29	---	---	9.0	8.5	6.0	5.5	5.0	4.5	10.0	8.5	11.5	9.0
30	---	---	8.5	7.5	6.5	6.0	5.0	4.0	---	---	13.0	10.0
31	---	---	---	---	6.0	5.0	5.0	4.0	---	---	12.5	11.0
MONTH	---	---	---	---	8.0	3.5	9.5	3.0	11.0	3.0	15.0	7.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.5	---	---	---	---	---	---	---	---	25.5	23.0
2	16.0	13.0	---	---	---	---	---	---	---	---	24.5	22.5
3	16.0	14.0	---	---	---	---	---	---	---	---	25.0	21.5
4	16.0	15.0	---	---	---	---	---	---	---	---	26.0	22.0
5	15.5	14.0	---	---	---	---	---	---	---	---	25.0	22.0
6	14.0	13.0	---	---	---	---	---	---	---	---	25.0	21.0
7	14.0	12.5	---	---	---	---	---	---	---	---	24.5	20.5
8	13.5	12.0	---	---	---	---	---	---	---	---	24.5	20.5
9	13.5	10.5	---	---	---	---	---	---	---	---	23.5	20.0
10	---	---	---	---	---	---	---	---	---	---	22.5	18.5
11	---	---	---	---	---	---	---	---	---	---	22.0	17.5
12	---	---	---	---	---	---	---	---	---	---	22.5	18.0
13	---	---	---	---	---	---	---	---	---	---	22.5	18.0
14	---	---	---	---	---	---	---	---	---	---	22.5	18.0
15	---	---	---	---	---	---	---	---	---	---	23.0	18.5
16	---	---	---	---	---	---	---	---	---	---	22.5	19.0
17	---	---	---	---	---	---	---	---	---	---	22.5	18.0
18	---	---	---	---	---	---	---	---	---	---	22.0	18.0
19	---	---	---	---	---	---	---	---	---	---	21.5	18.5
20	---	---	---	---	---	---	---	---	---	---	20.0	18.0
21	---	---	---	---	---	---	---	---	---	---	20.5	17.0
22	---	---	---	---	---	---	---	---	---	---	20.5	17.5
23	---	---	---	---	---	---	---	---	---	---	18.5	16.0
24	---	---	---	---	---	---	---	---	24.5	21.0	18.5	15.0
25	---	---	---	---	---	---	---	---	26.5	20.5	16.5	15.0
26	---	---	---	---	---	---	---	---	27.0	21.5	16.0	15.5
27	---	---	---	---	---	---	---	---	26.5	22.0	18.5	16.0
28	---	---	---	---	---	---	---	---	26.5	22.5	19.0	16.5
29	---	---	---	---	---	---	---	---	27.0	23.0	19.5	18.0
30	---	---	---	---	---	---	---	---	27.5	23.0	20.5	18.5
31	---	---	---	---	---	---	---	---	27.5	23.0	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	26.0	15.0

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, at gaging station 10 ft upstream from highway bridge, 0.5 mile upstream from mouth, and 9.5 miles east of Covelo.

DRAINAGE AREA.--162 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1964 to September 1966.
Specific conductance: October 1966 to September 1968.
Water temperatures: May 1964 to September 1972.
Sediment records: Water year 1966 (partial-record station), December 1966 to September 1972.
Turbidity: Water years 1966-68 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 27.5°C July 19; minimum, 1.0°C Feb. 1.
Sediment concentrations: Maximum daily, 2,570 mg/l Mar. 3; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 18,700 tons Jan. 22; minimum daily, 0.01 ton on several days.

Period of record:
Water temperatures: Maximum (1965-68, 1969-72), 31.5°C Aug. 23, 1964, Aug. 2, 1967; minimum (1965-72), freezing point on many days in 1965-69, 1971.
Sediment concentrations (1965-72): Maximum daily, 10,600 mg/l Jan. 4, 1966; minimum daily, 0 mg/l on several days in 1969.
Sediment discharge (1965-72): Maximum daily, 249,000 tons Jan. 24, 1970; minimum daily, 0 tons on several days in 1969.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972
(ONCE-DAILY MEASUREMENT)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	6.0	---	1.0	5.5	7.5	---	---	---	---	---
2	---	---	6.0	3.0	3.0	6.0	9.0	---	---	---	27.5	---
3	---	7.0	4.0	---	2.0	8.5	---	---	---	---	---	---
4	---	---	3.5	---	4.0	7.0	---	---	---	---	---	---
5	---	---	---	---	5.5	5.5	10.5	---	---	---	---	---
6	---	---	4.5	3.5	---	9.0	9.5	15.5	23.0	---	---	---
7	15.0	---	2.5	3.5	---	9.5	7.5	---	---	---	---	25.0
8	---	---	---	---	---	9.5	6.5	---	---	---	---	---
9	---	10.0	5.0	---	---	8.0	5.5	---	---	---	---	---
10	---	---	4.0	3.0	6.0	7.0	---	---	---	---	---	---
11	---	---	2.5	3.0	---	8.5	8.0	---	---	---	---	---
12	13.5	9.5	4.0	4.0	6.0	9.0	7.5	---	---	---	---	---
13	---	8.5	6.5	---	---	8.0	9.0	---	---	24.5	24.5	---
14	---	8.5	8.5	3.5	---	6.5	5.0	---	22.5	---	---	---
15	---	5.0	7.0	---	5.0	7.0	---	---	---	---	---	22.5
16	---	---	---	---	---	11.5	8.0	14.0	---	---	---	---
17	16.0	4.5	3.0	---	4.0	8.0	---	---	---	---	---	---
18	---	---	3.5	7.0	---	8.5	---	---	---	---	---	---
19	14.0	5.0	---	6.0	7.5	---	---	13.0	---	27.5	---	---
20	13.0	---	---	6.0	8.0	---	11.0	---	---	25.0	25.0	---
21	---	8.0	2.0	6.5	7.0	7.5	---	11.0	24.0	22.5	---	23.0
22	14.0	---	4.0	7.0	5.5	8.0	---	---	---	---	---	---
23	12.0	7.0	4.0	4.5	5.0	6.0	9.0	---	---	---	---	---
24	---	---	4.5	3.5	5.5	8.0	10.0	---	---	25.0	25.0	---
25	---	---	3.0	4.0	6.0	5.5	---	---	---	---	---	---
26	---	8.5	3.0	3.0	7.0	---	---	19.5	---	25.0	---	18.5
27	---	8.0	3.5	2.5	7.5	3.5	---	---	---	---	---	15.0
28	---	7.0	2.0	1.5	7.0	---	---	---	---	27.0	---	13.5
29	---	7.0	3.0	---	6.0	---	6.5	---	---	---	---	19.5
30	8.5	---	3.0	1.5	---	5.0	---	---	---	24.5	24.5	---
31	---	---	4.0	---	---	---	---	---	---	---	---	---
MONTH	---	---	4.0	---	---	7.5	---	---	---	---	---	---

11472900 BLACK BUTTE RIVER NEAR COVELO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1	.04	8.5	1	.02	55	6	.89
2	11	1	.03	8.8	1	.02	57	25	3.8
3	9.5	1	.03	8.5	1	.02	58	46	7.2
4	8.5	1	.02	8.5	1	.02	44	14	1.7
5	7.8	1	.02	8.5	1	.02	56	59	15
6	7.4	1	.02	8.1	1	.02	376	461	539
7	7.1	1	.02	7.8	1	.02	124	49	16
8	6.7	1	.02	7.4	1	.02	84	10	2.3
9	6.4	1	.02	7.8	1	.02	170	148	89
10	6.0	2	.03	9.5	1	.03	124	42	14
11	5.7	2	.03	20	2	.11	80	11	2.4
12	5.7	2	.03	57	6	.92	90	80	19
13	5.7	2	.03	66	88	19	64	23	4.0
14	5.4	2	.03	51	20	2.8	71	56	11
15	5.4	1	.01	28	4	.30	74	26	5.2
16	5.7	1	.02	23	3	.19	44	7	.83
17	6.0	1	.02	19	2	.10	50	11	1.5
18	6.4	1	.02	17	1	.05	61	13	2.1
19	6.7	1	.02	16	1	.04	55	4	.59
20	8.8	1	.02	15	1	.04	48	3	.39
21	8.8	1	.02	17	1	.05	38	48	4.9
22	8.8	1	.02	17	1	.05	590	1220	2480
23	8.5	1	.02	17	1	.05	296	132	122
24	8.5	1	.02	18	1	.05	310	268	278
25	8.5	1	.02	22	9	.53	229	70	43
26	8.5	1	.02	94	111	54	148	25	10
27	8.5	1	.02	138	79	36	118	17	5.4
28	8.5	1	.02	157	88	41	102	12	3.3
29	8.1	1	.02	134	45	16	92	10	2.5
30	7.8	1	.02	87	17	4.0	84	12	2.7
31	8.1	1	.02	--	--	--	85	13	3.0
TOTAL	240.5	--	.70	1096.4	--	175.49	3877	--	3690.70

	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	102	13	3.6	268	31	22	855	735	1700
2	108	12	3.5	235	22	14	1360	1530	6810
3	108	11	3.2	232	18	11	2360	2570	18100
4	94	8	2.0	349	196	191	1380	1280	4770
5	88	5	1.2	367	90	89	1100	1050	3120
6	87	3	.70	334	44	40	936	800	2020
7	94	3	.76	289	31	24	830	620	1390
8	88	3	.71	265	26	19	745	474	953
9	84	2	.45	241	24	16	630	298	507
10	82	2	.44	238	22	14	589	220	350
11	77	3	.62	223	18	11	575	200	311
12	76	3	.62	218	15	8.8	568	211	324
13	80	3	.65	213	15	8.6	568	212	325
14	84	3	.68	218	14	8.2	534	152	219
15	80	2	.43	220	14	8.3	513	110	152
16	84	1	.23	226	17	10	510	138	190
17	85	1	.23	205	10	5.5	513	142	197
18	122	18	5.9	188	10	5.1	483	101	132
19	271	315	366	188	11	5.6	405	70	77
20	538	380	552	274	30	24	329	42	37
21	968	1050	2990	274	25	18	287	28	22
22	2180	2200	18700	346	553	671	444	164	210
23	1780	2260	13200	529	751	1370	423	67	77
24	679	776	1440	837	881	2100	554	243	540
25	548	458	684	603	554	993	674	329	661
26	419	176	201	882	617	1480	480	156	202
27	379	155	159	761	440	907	410	88	97
28	352	70	67	1690	2190	12200	366	52	51
29	319	49	42	1320	1550	6230	308	34	28
30	286	49	38	--	--	--	284	24	18
31	268	47	34	--	--	--	268	18	13
TOTAL	10610	--	38498.92	12333	--	26504.1	20281	--	43603

11472900 BLACK BUTTE RIVER NEAR COVELO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	254	12	8.2	222	7	4.2	89	1	.24
2	264	20	14	218	6	3.5	83	1	.22
3	254	20	14	215	6	3.5	79	1	.21
4	241	20	13	215	6	3.5	72	1	.19
5	389	166	198	211	5	2.8	61	2	.33
6	501	168	227	206	5	2.8	58	2	.31
7	436	95	112	201	5	2.7	54	2	.29
8	373	42	42	199	6	3.2	52	2	.28
9	329	36	32	190	6	3.1	53	2	.29
10	306	32	26	183	7	3.5	58	2	.31
11	376	130	151	174	7	3.3	55	2	.30
12	467	170	214	169	7	3.2	51	2	.28
13	433	66	77	167	8	3.6	47	2	.25
14	405	57	62	165	8	3.6	42	2	.23
15	415	87	97	158	9	3.8	40	2	.22
16	405	52	57	158	9	3.8	36	2	.19
17	373	25	25	160	7	3.0	32	2	.17
18	345	20	19	151	5	2.0	27	2	.15
19	316	18	15	149	4	1.6	25	2	.14
20	301	14	11	172	4	1.9	23	2	.12
21	289	13	10	174	5	2.3	22	2	.12
22	280	11	8.3	160	4	1.7	21	2	.11
23	273	10	7.4	146	4	1.6	19	2	.10
24	277	14	10	137	3	1.1	19	2	.10
25	266	12	8.6	131	2	.71	18	2	.10
26	257	10	6.9	125	2	.68	17	2	.09
27	247	9	6.0	117	2	.63	16	2	.09
28	245	8	5.3	111	2	.60	14	2	.08
29	234	7	4.4	105	2	.57	13	2	.07
30	224	7	4.2	101	1	.27	12	2	.06
31	--	--	--	97	1	.26	--	--	--
TOTAL	9775	--	1485.3	5087	--	73.02	1208	--	5.64

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12	2	.06	8.0	1	.02	6.7	2	.04
2	11	3	.09	7.6	1	.02	6.7	2	.04
3	10	3	.08	7.3	1	.02	6.6	2	.04
4	9.7	3	.08	7.3	1	.02	6.6	1	.02
5	9.5	3	.08	7.3	1	.02	6.8	1	.02
6	9.3	3	.08	7.3	1	.02	6.6	1	.02
7	9.0	3	.07	7.1	1	.02	7.4	1	.02
8	8.8	3	.07	7.1	1	.02	5.0	1	.01
9	8.6	3	.07	7.1	1	.02	4.2	1	.01
10	8.2	3	.07	7.1	1	.02	3.7	1	.01
11	7.7	3	.06	7.1	1	.02	3.4	1	.01
12	7.4	2	.04	6.7	1	.02	3.3	1	.01
13	7.2	2	.04	6.7	1	.02	3.3	1	.01
14	7.0	2	.04	7.1	1	.02	3.6	1	.01
15	6.8	2	.04	7.1	1	.02	3.6	1	.01
16	6.8	2	.04	8.8	1	.02	3.3	1	.01
17	7.3	2	.04	11	1	.03	3.3	1	.01
18	7.7	2	.04	11	1	.03	3.3	1	.01
19	8.5	2	.05	10	1	.03	3.3	1	.01
20	8.5	2	.05	10	1	.03	3.6	1	.01
21	9.5	10	.26	10	3	.08	3.6	1	.01
22	12	8	.26	9.8	2	.05	3.6	1	.01
23	12	7	.23	9.6	2	.05	3.6	1	.01
24	10	6	.16	9.5	2	.05	3.6	1	.01
25	9.5	5	.13	9.5	2	.05	3.6	1	.01
26	9.1	4	.10	9.2	2	.05	23	47	11
27	8.8	4	.10	8.5	2	.05	109	388	126
28	8.5	3	.07	8.1	2	.04	51	20	2.8
29	8.5	3	.07	7.8	2	.04	20	6	.32
30	8.8	2	.05	7.8	2	.04	13	2	.07
31	8.5	2	.05	7.4	2	.04	--	--	--
TOTAL	276.2	--	2.67	255.9	--	.98	328.3	--	140.57

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 65368.3
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 114181.09

11472900 BLACK BUTTE RIVER NEAR COVELO, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.											
28...	0955	7.0	223	171	103	--	--	--	--	--	--
DEC.											
06...	0820	4.5	510	626	862	38	47	56	66	75	--
12...	1510	4.0	100	149	40	--	--	--	--	--	--
22...	0825	4.0	1070	3410	9850	28	32	45	59	72	79
22...	1100	3.5	925	1520	3800	25	37	45	57	60	80
JAN.											
19...	1610	6.0	334	217	196	--	--	--	--	--	--
22...	1530	7.0	1850	2760	13800	26	29	42	54	66	73
22...	1635	7.0	2110	2900	16500	25	34	45	58	71	--
23...	1545	4.5	1060	1560	4470	11	20	30	40	45	--
25...	1635	4.0	530	419	600	--	--	--	--	--	--
SEP.											
27...	0725	15.0	118	649	207	55	76	89	99	100	--

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.										
28...	87	--	90	--	96	--	100	--	--	--
DEC.										
06...	85	--	89	--	93	--	98	--	100	--
12...	97	--	100	--	--	--	--	--	--	--
22...	--	83	--	92	--	96	--	100	--	--
22...	--	84	--	89	--	96	--	100	--	--
JAN.										
19...	87	--	89	--	94	--	100	--	--	--
22...	--	80	--	91	--	97	--	100	--	--
22...	80	--	82	--	90	--	98	--	100	--
23...	58	--	61	--	69	--	80	--	90	100
25...	51	--	52	--	55	--	63	--	78	100
SEP.										
27...	--	--	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.							
01...	1530	6.0	1	51	--	--	1
01...	1535	6.0	1	51	--	1	2
APR.							
24...	1540	10.0	1	273	1	2	4
24...	1545	10.0	1	273	--	--	1
24...	1550	10.0	1	273	--	--	1
24...	1555	10.0	1	273	--	--	1

DATE	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM
DEC.							
01...	1	2	4	14	34	62	100
01...	16	26	31	38	51	77	100
APR.							
24...	10	22	39	57	72	89	100
24...	2	6	12	18	26	51	100
24...	4	6	9	12	37	100	--
24...	3	5	8	14	51	100	--

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 mile downstream from Black Butte River, and 8.6 miles east of Covelo.
DRAINAGE AREA.--367 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1964 to September 1966.
Water temperatures: July to November 1961, October 1962 to September 1972.
Sediment records: October 1962 to September 1967.
Turbidity: Water years 1965-67 (partial-record station).
EXTREMES.--1971-72:
Water temperatures: Maximum, 29.5°C July 15; minimum, 2.5°C Dec. 16, 17, Jan. 4, Feb. 2.
Period of record:
Water temperatures (1962-63, 1965-66, 1967-68, 1969-72): Maximum, 29.5°C July 15, 1972; minimum (1969-72), 2.5°C Jan. 15, 1971, Dec. 16, 17, 1971, Jan. 4, Feb. 2, 1972.
REMARKS.--Recorder stopped Oct. 1 to Dec. 1, Dec. 3-15. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	--	--	--	--	--	--	--	5.5	--	4.0	--	4.0	3.5	--	3.0	7.0	--	6.5
2	--	--	--	--	--	--	6.0	--	6.0	4.5	--	4.0	3.5	--	2.5	7.5	--	7.0
3	--	--	--	--	--	--	--	--	--	4.0	--	3.0	4.0	--	3.0	8.0	--	7.0
4	--	--	--	--	--	--	--	--	--	3.0	--	2.5	4.5	--	4.0	8.5	--	7.5
5	--	--	--	--	--	--	--	--	--	3.5	--	3.0	5.5	--	4.5	9.0	--	8.0
6	--	--	--	--	--	--	--	--	--	4.0	--	3.5	6.0	--	5.5	9.0	--	8.0
7	--	--	--	--	--	--	--	--	--	4.5	--	4.0	6.0	--	5.0	9.5	--	8.0
8	--	--	--	--	--	--	--	--	--	4.5	--	3.5	6.0	--	5.5	9.5	--	8.0
9	--	--	--	--	--	--	--	--	--	4.0	--	3.5	6.0	--	5.5	9.5	--	9.0
10	--	--	--	--	--	--	--	--	--	4.0	--	3.5	6.5	--	5.0	9.0	--	8.5
11	--	--	--	--	--	--	--	--	--	4.0	--	3.5	6.5	--	5.5	9.5	--	9.0
12	--	--	--	--	--	--	--	--	--	5.0	--	4.0	6.5	--	5.5	9.5	--	9.0
13	--	--	--	--	--	--	--	--	--	5.5	--	3.5	6.5	--	6.0	10.0	--	9.0
14	--	--	--	--	--	--	--	--	--	4.5	--	4.0	6.0	--	5.5	9.5	--	8.5
15	--	--	--	--	--	--	--	--	--	4.5	--	4.0	7.0	--	6.0	10.5	--	8.5
16	--	--	--	--	--	--	4.0	--	2.5	4.5	--	4.0	7.0	--	6.5	11.0	--	9.5
17	--	--	--	--	--	--	3.5	--	2.5	5.0	--	4.0	7.0	--	6.0	11.5	--	10.0
18	--	--	--	--	--	--	3.5	--	3.0	6.0	--	5.0	7.5	--	6.0	10.5	--	9.5
19	--	--	--	--	--	--	3.5	--	3.5	6.0	--	5.5	7.5	--	6.5	10.0	--	9.0
20	--	14.0	--	--	--	--	3.5	--	3.5	6.0	--	5.5	8.0	--	7.5	10.0	--	9.0
21	--	--	--	--	--	--	4.0	--	3.5	6.5	--	6.0	7.5	--	7.0	10.5	--	9.5
22	--	--	--	--	--	--	4.5	--	4.0	7.0	--	6.5	7.5	--	6.5	10.5	--	9.0
23	--	--	--	--	--	--	4.0	--	3.5	7.0	--	6.0	6.5	--	6.0	9.0	--	8.0
24	--	--	--	--	--	--	4.5	--	4.0	6.0	--	5.0	7.0	--	6.5	8.5	--	8.0
25	--	--	--	--	--	--	4.0	--	3.5	6.5	--	5.0	7.0	--	6.5	8.0	--	7.0
26	--	--	--	--	--	--	3.5	--	3.5	5.5	--	4.0	7.5	--	7.0	7.0	--	5.5
27	--	--	--	--	--	--	4.0	--	3.5	4.0	--	3.5	7.5	--	7.0	7.5	--	6.5
28	--	--	--	--	--	--	4.0	--	3.5	4.0	--	3.5	7.5	--	7.0	8.0	--	6.5
29	--	--	--	--	--	--	4.0	--	3.5	4.0	--	3.0	7.0	--	6.5	8.0	--	6.5
30	--	--	--	--	--	--	4.0	--	3.5	3.5	--	3.0	--	--	--	9.0	--	7.0
31	--	--	--	--	--	--	4.0	--	3.5	3.5	--	3.0	--	--	--	8.5	--	8.0
MONTH	--	--	--	--	--	--	--	--	--	7.0	--	2.5	8.0	--	2.5	11.5	--	5.5

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	9.0	--	8.5	12.0	--	9.0	20.5	--	17.0	28.0	--	23.0	26.0	--	22.0	25.5	--	21.5
2	11.5	--	9.0	13.5	--	10.5	18.5	--	17.0	27.5	--	23.5	26.5	--	22.5	25.5	--	22.0
3	11.0	--	10.0	13.5	--	10.5	20.0	--	16.0	27.5	--	23.5	26.5	--	22.5	25.5	--	22.0
4	11.0	--	10.0	14.0	--	11.0	21.0	--	17.0	27.0	--	23.5	27.0	--	22.5	25.5	--	22.0
5	10.0	--	9.5	14.0	--	11.5	21.5	--	18.0	27.0	--	23.5	27.5	--	23.5	24.5	--	21.5
6	9.5	--	8.5	12.5	--	11.0	22.0	--	20.0	27.0	--	23.0	27.0	--	23.0	24.5	--	21.5
7	9.0	--	8.0	11.5	--	11.0	22.0	--	19.5	26.0	--	23.0	27.5	--	23.5	25.0	--	21.5
8	8.5	--	8.0	12.0	--	10.0	21.5	--	19.5	26.0	--	22.5	27.5	--	24.0	24.5	--	21.5
9	8.5	--	7.5	13.0	--	10.0	19.5	--	17.5	25.5	--	22.5	27.5	--	24.0	24.0	--	21.0
10	8.5	--	7.0	13.0	--	11.0	17.5	--	16.0	26.0	--	22.5	28.0	--	24.0	23.5	--	20.5
11	8.0	--	7.5	15.0	--	12.0	19.0	--	15.5	26.5	--	22.5	27.0	--	24.0	22.5	--	20.5
12	7.5	--	6.5	15.0	--	12.5	20.5	--	16.5	27.5	--	23.5	26.5	--	23.5	23.0	--	19.5
13	7.5	--	5.5	16.0	--	13.0	21.5	--	18.0	28.0	--	23.5	25.5	--	23.0	23.0	--	19.5
14	9.0	--	6.0	16.0	--	13.5	22.5	--	18.5	28.5	--	23.5	25.0	--	22.5	23.0	--	19.5
15	10.0	--	7.5	15.5	--	13.0	22.5	--	19.5	29.5	--	24.5	25.0	--	22.0	23.5	--	19.5
16	10.0	--	8.0	14.0	--	12.5	22.5	--	19.5	29.0	--	25.0	23.5	--	22.0	23.0	--	19.5
17	9.0	--	7.0	15.5	--	12.5	23.5	--	19.5	29.0	--	25.0	24.5	--	21.5	23.0	--	19.5
18	8.0	--	6.0	14.5	--	12.5	24.0	--	20.0	28.5	--	25.0	24.5	--	22.0	22.0	--	19.5
19	8.5	--	6.0	13.5	--	12.5	24.5	--	20.5	27.5	--	24.5	24.5	--	22.0	22.0	--	19.5
20	9.5	--	7.0	12.5	--	11.5	24.5	--	21.0	26.5	--	24.0	24.5	--	21.5	22.0	--	19.0
21	10.5	--	8.0	11.5	--	11.0	24.0	--	20.0	27.0	--	23.5	25.0	--	21.5	23.0	--	19.0
22	10.0	--	8.5	14.5	--	10.5	24.5	--	20.5	27.0	--	23.5	25.0	--	22.0	23.5	--	18.0
23	9.5	--	8.5	15.5	--	12.5	22.0	--	20.5	27.0	--	23.5	25.0	--	21.5	21.5	--	16.5
24	9.5	--	8.5	16.5	--	13.5	23.0	--	19.5	26.5	--	23.5	25.0	--	21.5	22.5	--	16.5
25	10.0	--	7.5	17.5	--	14.0	23.5	--	19.5	26.5	--	22.5	26.0	--	22.0	19.0	--	16.5
26	11.5	--	8.5	18.5	--	14.5	24.5	--	20.0	26.5	--	22.5	26.0	--	22.0	20.5	--	18.0
27	12.0	--	9.0	19.0	--	15.5	25.5	--	21.0	27.0	--	22.5	26.5	--	22.0	20.5	--	17.0
28	11.0	--	9.5	19.0	--	16.0	26.0	--	21.5	27.5	--	23.0	26.0	--	22.0	21.5	--	16.5
29	10.0	--	7.5	19.0	--	16.0	26.5	--	22.0	26.0	--	23.0	24.5	--	22.5	22.0	--	16.5
30	11.0	--	8.0	19.5	--	16.0	28.5	--	22.5	26.5	--	22.5	25.5	--	22.0	22.5	--	17.0
31	--	--	--	19.5	--	16.5	--	--	--	26.0	--	22.5	25.0	--	22.0	--	--	--
MONTH	12.0	--	5.5	19.5	--	9.0	28.5	--	15.5	29.5	--	22.5	28.0	--	21.5	25.5	--	16.5

11473800 ELK CREEK NEAR HEARST, CALIF.

LOCATION.--Lat 39°38'50", long 123°07'13", in NE¼SE¼ sec.30, T.21 N., R.11 W., Mendocino County, at gaging station 900 ft upstream from small left-bank tributary, and 13.5 miles northeast of Hearst.

DRAINAGE AREA.--84.1 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1964 to September 1972.
Sediment records: Water years 1966-72 (partial-record station).
Turbidity: Water year 1967 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 31.5°C July 15-17; minimum, 1.0°C Feb. 2.

Period of record:
Water temperatures (1965-67, 1968-72): Maximm (1965-67, 1968-69, 1970-72), 34.5°C Aug. 2, 1967; minimum (1966-67, 1969-72), 1.0°C Jan. 3, 6-8, 1970, Feb. 2, 1972.

REMARKS.--No thermograph record Oct. 4-9, recorder malfunction; Nov. 12 to Dec. 6, July 29 to Sept. 21, recorder stopped.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.5	13.5	14.0	9.0	---	---	8.5	3.0	5.0	2.0	7.5	6.5
2	19.5	13.5	13.5	8.5	---	---	8.0	3.0	4.5	1.0	9.0	7.5
3	21.0	14.0	13.5	8.5	---	---	8.0	3.0	6.0	3.0	9.5	8.0
4	---	---	13.5	8.5	---	---	7.5	2.0	6.5	5.5	11.0	8.5
5	---	---	13.5	8.5	---	---	7.0	2.0	7.5	5.5	10.5	7.5
6	---	---	13.0	8.0	---	---	7.5	2.5	8.0	6.0	11.0	7.0
7	---	---	13.0	8.5	7.5	3.5	7.5	2.5	8.0	6.0	11.0	7.5
8	---	---	12.0	8.0	7.5	3.5	8.0	3.5	7.5	5.5	12.0	7.5
9	---	---	13.0	8.5	8.5	5.5	9.0	3.0	8.0	4.5	10.0	8.5
10	20.5	15.0	13.5	11.5	7.5	4.5	8.0	2.5	8.5	4.5	10.5	8.5
11	20.5	14.5	14.5	12.0	7.5	5.5	8.0	3.0	8.5	4.5	11.0	9.0
12	20.5	15.0	---	---	6.5	6.0	6.0	4.5	9.0	5.0	11.0	9.5
13	20.5	14.5	---	---	7.5	5.5	7.5	6.0	8.5	5.5	13.0	9.5
14	19.5	14.5	---	---	7.5	5.5	7.0	4.0	7.5	5.0	12.0	8.0
15	16.5	13.0	---	---	7.5	4.5	6.0	3.0	9.5	6.0	13.5	8.5
16	16.5	11.5	---	---	7.0	3.5	6.5	3.0	10.5	6.5	14.5	9.0
17	15.5	11.5	---	---	7.5	3.5	6.5	3.5	10.0	5.0	14.5	9.0
18	15.0	11.0	---	---	7.5	4.0	8.5	6.0	9.5	5.5	14.0	9.0
19	14.5	12.5	---	---	7.5	4.0	8.0	7.0	10.5	6.5	12.5	7.5
20	17.5	14.0	---	---	7.0	3.0	8.0	7.5	11.5	8.0	13.0	7.5
21	16.5	11.5	---	---	8.0	3.5	8.5	7.5	9.5	6.0	12.0	8.5
22	14.5	11.5	---	---	9.0	4.0	9.0	8.0	7.0	6.0	10.5	8.0
23	16.0	12.5	---	---	9.0	4.0	8.5	6.0	8.5	6.5	11.5	7.5
24	15.5	11.0	---	---	9.0	4.5	6.0	5.5	7.5	7.0	9.0	7.5
25	15.5	10.0	---	---	8.5	4.0	6.5	5.5	7.5	6.5	10.0	5.5
26	14.0	10.5	---	---	8.0	4.0	5.5	4.0	9.5	7.5	9.5	4.0
27	14.0	10.5	---	---	8.5	4.0	5.0	3.0	9.5	8.0	10.5	4.5
28	13.5	8.0	---	---	8.5	3.5	5.0	3.5	10.0	8.5	11.0	4.5
29	12.5	7.0	---	---	8.5	4.0	5.0	3.0	8.5	7.5	11.5	4.5
30	11.5	8.5	---	---	8.5	4.0	5.5	2.0	---	---	12.5	5.5
31	13.5	9.5	---	---	8.5	3.5	5.5	2.0	---	---	10.5	6.5
MONTH	21.0	7.0	---	---	9.0	3.0	9.0	2.0	11.5	1.0	14.5	4.0

11473800 ELK CREEK NEAR HEARST, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	8.5	17.5	8.5	25.0	16.5	30.5	22.0	---	---	---	---
2	15.5	9.5	18.0	9.0	20.5	16.5	30.0	21.5	---	---	---	---
3	14.5	9.0	18.0	9.5	24.5	15.5	30.0	21.5	---	---	---	---
4	13.5	9.5	18.5	10.5	25.0	16.0	30.0	21.5	---	---	---	---
5	12.5	9.5	19.0	10.5	26.5	17.0	29.5	21.0	---	---	---	---
6	11.5	8.5	18.0	10.0	25.0	18.0	29.0	20.5	---	---	---	---
7	11.5	7.5	15.5	11.5	26.0	16.5	28.5	19.5	---	---	---	---
8	11.0	7.0	16.0	9.5	25.0	17.5	28.5	19.0	---	---	---	---
9	12.0	6.5	18.5	10.5	19.0	15.5	27.5	20.5	---	---	---	---
10	12.0	7.0	19.0	10.5	21.0	13.5	28.0	19.0	---	---	---	---
11	9.5	8.0	20.0	11.5	23.5	13.5	29.0	20.0	---	---	---	---
12	9.0	7.0	21.0	12.0	24.5	15.5	30.0	21.0	---	---	---	---
13	11.5	6.0	21.5	13.0	25.5	16.5	30.5	21.0	---	---	---	---
14	13.0	6.0	21.5	13.5	26.0	17.0	31.0	21.5	---	---	---	---
15	14.5	7.0	21.5	13.0	26.0	17.5	31.5	22.5	---	---	---	---
16	13.5	8.0	16.5	13.0	25.5	18.0	31.5	23.0	---	---	---	---
17	13.0	6.0	19.5	12.0	26.5	17.5	31.5	23.0	---	---	---	---
18	12.5	5.5	19.0	12.5	28.0	18.5	31.0	23.5	---	---	---	---
19	13.5	5.5	15.5	12.0	28.0	19.0	29.5	22.0	---	---	---	---
20	15.0	5.5	13.0	11.5	27.5	19.0	29.5	21.5	---	---	---	---
21	15.5	8.0	13.0	11.0	27.5	17.5	28.5	21.0	---	---	---	---
22	15.0	7.5	19.5	11.5	27.5	19.0	29.0	20.5	---	---	22.5	18.0
23	12.0	8.0	20.0	13.0	24.5	19.0	29.0	20.5	---	---	20.5	16.0
24	12.0	8.5	21.0	12.5	26.0	16.5	28.5	20.5	---	---	20.5	15.5
25	15.0	8.0	22.0	13.0	25.5	17.5	28.5	20.0	---	---	18.0	15.5
26	16.5	8.0	23.0	14.0	27.5	18.5	28.5	20.0	---	---	19.5	16.5
27	17.0	9.0	23.5	15.0	28.5	19.0	29.0	20.0	---	---	21.5	16.0
28	15.5	9.0	23.5	15.5	29.5	20.0	29.5	20.5	---	---	22.5	16.5
29	15.0	6.5	24.0	16.0	29.5	20.5	---	---	---	---	23.0	15.5
30	16.0	7.0	24.5	15.5	30.0	21.0	---	---	---	---	23.0	16.0
31	---	---	24.5	16.5	---	---	---	---	---	---	---	---
MONTH	17.0	5.5	24.5	8.5	30.0	13.5	31.5	19.0	---	---	---	---

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS,
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
20...	1340	17.0	3.2	2	.02
DEC.					
07...	1040	3.5	63	8	1.4
JAN.					
11...	1025	3.5	42	3	.34
FEB.					
16...	1020	6.5	113	10	3.1
MAR.					
21...	1030	9.0	147	6	2.4
APR.					
26...	0950	9.5	131	4	1.4
JUNE					
07...	1020	19.0	25	1	.07

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 mile upstream from Eastman Creek, 1.7 miles southeast of Dos Rios, and 1.9 miles upstream from mouth.

DRAINAGE AREA.--745 sq mi.

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 September 1972.
Sediment records: Water years 1956-57 (partial-record station), October 1957 to September 1972.
Turbidity: Water years 1965-68 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 32.0°C July 16; minimum, 3.0°C Feb. 2.
Sediment concentrations: Maximum daily, 2,520 mg/l Jan. 23; minimum daily, 1 mg/l on many days.
Sediment discharge: Maximum daily, 150,000 tons Jan. 23; minimum daily, 0.03 ton on several days.

Period of record:
Water temperatures: Maximum (1971-72), 32.0°C July 16, 1972; minimum (1968-72), freezing point Dec. 22, 1968.
Sediment concentrations (1965-72): Maximum daily, 11,800 mg/l Jan. 4, 1966; minimum daily, 1 mg/l on many days in 1965-72.
Sediment discharge (1965-72): Maximum daily, 1,430,000 tons Jan. 4, 1966; minimum daily, 0.02 ton on several days in 1970.

REMARKS.--No thermograph record Oct. 20 to Jan. 14, Feb. 8 to Mar. 29, recorder malfunction; Jan. 15 to Feb. 7, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	23.5	--	16.0	--	--	--	--	6.5	--	--	5.0	--	--	5.5	--	--	7.0	--
2	21.5	--	15.5	--	11.0	--	--	7.0	--	--	5.0	--	--	3.0	--	--	8.0	--
3	21.0	--	16.0	--	--	--	--	5.0	--	--	4.0	--	--	4.0	--	--	11.0	--
4	21.0	--	17.0	--	10.0	--	--	5.0	--	--	3.5	--	--	6.0	--	--	9.5	--
5	20.0	--	16.5	--	--	--	--	7.0	--	--	4.0	--	--	5.0	--	--	8.0	--
6	20.5	--	16.5	--	9.5	--	--	5.5	--	--	4.0	--	--	4.5	--	--	9.0	--
7	20.5	--	17.0	--	9.0	--	--	4.0	--	--	5.0	--	--	7.0	--	--	9.5	--
8	20.5	--	17.0	--	9.5	--	--	5.0	--	--	5.5	--	--	6.5	--	--	11.0	--
9	20.5	--	16.5	--	9.0	--	--	5.0	--	--	5.0	--	--	6.5	--	--	10.0	--
10	19.5	--	15.5	--	12.0	--	--	5.5	--	--	4.5	--	--	6.0	--	--	10.0	--
11	20.5	--	16.0	--	12.0	--	--	--	--	--	4.0	--	--	6.0	--	--	10.5	--
12	19.0	--	16.0	--	10.5	--	--	6.0	--	--	5.0	--	--	6.5	--	--	11.0	--
13	19.5	--	15.0	--	10.0	--	--	4.0	--	--	6.5	--	--	7.0	--	--	10.5	--
14	19.0	--	14.5	--	8.5	--	--	6.5	--	--	5.0	--	--	7.5	--	--	10.0	--
15	15.5	--	13.0	--	8.0	--	--	5.5	--	--	5.5	--	--	8.0	--	--	11.5	--
16	16.0	--	12.0	--	8.0	--	--	5.5	--	--	4.5	--	--	8.0	--	--	10.5	--
17	15.0	--	11.5	--	8.0	--	--	6.0	--	--	5.5	--	--	8.0	--	--	11.0	--
18	14.5	--	11.5	--	8.0	--	--	4.0	--	--	7.5	--	--	7.5	--	--	11.0	--
19	15.0	--	12.0	--	6.5	--	--	5.5	--	--	8.5	--	--	8.5	--	--	9.5	--
20	--	13.0	--	--	9.0	--	--	4.0	--	--	8.0	--	--	11.0	--	--	10.0	--
21	--	14.5	--	--	7.5	--	--	4.5	--	--	9.0	--	--	8.5	--	--	13.0	--
22	--	--	--	--	8.5	--	--	6.0	--	--	9.0	--	--	7.5	--	--	11.0	--
23	--	12.5	--	--	8.0	--	--	6.0	--	--	7.5	--	--	8.0	--	--	9.0	--
24	--	--	--	--	9.0	--	--	6.5	--	--	5.5	--	--	7.5	--	--	9.0	--
25	--	--	--	--	9.5	--	--	5.5	--	--	5.5	--	--	8.0	--	--	8.0	--
26	--	--	--	--	9.5	--	--	5.0	--	--	4.0	--	--	8.5	--	--	7.5	--
27	--	--	--	--	9.0	--	--	5.5	--	--	3.5	--	--	9.0	--	--	9.0	--
28	--	--	--	--	8.0	--	--	4.5	--	--	4.0	--	--	10.5	--	--	8.0	--
29	--	--	--	--	7.5	--	--	5.5	--	--	4.5	--	--	7.5	--	--	7.0	--
30	--	9.0	--	--	7.0	--	--	6.0	--	--	4.0	--	--	--	--	11.5	--	7.0
31	--	--	--	--	--	--	--	7.0	--	--	4.0	--	--	--	--	10.5	--	8.0
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	11.5	9.5	16.5	11.0	24.0	18.5	30.5	24.5	29.0	22.0	27.0	20.0
2	14.0	10.5	17.5	12.0	21.5	18.5	30.0	23.5	--	--	26.0	20.0
3	14.0	11.0	17.5	12.5	23.5	17.0	30.0	23.5	--	--	27.0	19.5
4	13.5	11.0	18.0	13.0	24.5	18.5	30.5	23.5	--	--	26.5	20.0
5	13.0	11.0	18.5	13.5	25.5	19.0	29.5	23.0	29.0	22.5	26.0	19.5
6	11.0	9.5	17.0	13.0	26.0	20.0	29.0	22.5	28.0	22.0	26.0	19.0
7	11.0	9.0	14.5	11.5	25.5	22.0	28.0	22.0	29.0	23.0	26.0	19.5
8	10.0	8.5	15.5	11.0	24.5	19.5	28.5	21.5	28.5	23.5	25.5	20.0
9	10.5	7.5	17.0	12.0	21.0	19.0	27.5	22.0	29.0	23.5	24.5	19.0
10	11.0	8.0	18.0	13.5	20.5	16.0	28.0	21.5	29.5	23.5	23.5	17.5
11	9.5	8.5	19.0	14.0	22.0	15.5	29.5	22.0	28.5	22.5	24.0	19.0
12	8.5	7.5	20.0	15.0	23.5	17.5	30.0	23.0	28.0	22.0	24.0	16.5
13	10.0	7.5	20.5	15.5	24.5	18.5	30.5	24.0	27.0	21.0	23.0	16.5
14	11.5	7.0	20.5	15.5	26.0	19.5	31.0	25.0	26.0	20.0	24.0	16.5
15	12.5	9.0	20.5	15.5	26.0	20.0	31.5	26.0	24.0	19.5	24.0	16.5
16	12.5	9.5	17.0	14.0	25.5	19.5	32.0	26.0	23.5	20.0	23.5	17.0
17	11.0	8.0	18.0	13.5	26.5	19.5	31.5	25.5	26.0	19.5	24.0	16.5
18	11.0	7.5	18.0	13.5	28.0	21.0	30.5	24.0	25.5	20.5	21.5	15.5
19	12.0	7.0	16.0	13.0	28.0	21.5	30.0	23.5	25.5	19.5	22.0	16.5
20	13.0	8.0	13.0	12.0	27.5	21.5	28.5	22.5	26.0	20.0	21.5	15.5
21	14.0	9.5	16.5	12.0	27.5	20.5	28.5	22.5	27.0	20.0	22.5	15.5
22	14.0	9.5	18.0	13.5	27.0	20.5	29.5	22.5	26.5	21.0	21.5	17.5
23	11.0	10.0	19.0	14.0	24.0	19.5	29.5	23.0	26.5	20.5	19.0	14.5
24	12.0	9.5	20.0	15.0	25.5	19.0	29.5	22.5	25.5	20.0	19.0	13.5
25	13.5	9.0	21.0	15.0	27.0	20.0	29.0	22.5	27.5	20.5	16.5	14.0
26	15.5	10.0	22.0	16.0	27.5	21.0	29.0	22.0	28.0	20.5	18.0	16.0
27	16.0	11.5	23.0	17.0	28.5	21.5	29.5	22.5	27.5	20.5	19.0	16.0
28	14.5	11.0	23.0	17.5	29.0	22.0	29.5	23.0	28.0	21.5	20.5	17.0
29	14.0	9.5	23.0	17.5	29.0	23.0	28.0	24.0	28.5	22.0	21.0	16.5
30	15.0	9.5	24.0	17.5	30.5	24.0	30.0	22.5	28.0	21.0	21.0	17.0
31	--	--	24.0	18.0	--	--	29.0	22.0	28.5	20.5	--	--
MONTH	16.0	7.0	24.0	11.0	30.5	15.5	32.0	21.5	29.5	19.5	27.0	13.5

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	68	4	.73	32	1	.09	513	30	42
2	55	2	.30	34	1	.09	450	43	53
3	44	1	.12	34	1	.09	457	32	39
4	38	1	.10	34	1	.09	408	20	22
5	37	1	.10	32	1	.09	326	10	8.8
6	34	1	.09	32	1	.09	2800	892	8310
7	34	1	.09	31	1	.08	1340	185	669
8	31	1	.08	31	1	.08	680	41	75
9	30	1	.08	31	1	.08	950	188	732
10	28	1	.08	32	1	.09	1140	137	480
11	27	2	.15	53	1	.14	716	35	68
12	27	4	.29	218	49	36	815	171	437
13	25	8	.54	341	56	58	689	5	9.3
14	24	6	.39	311	20	17	492	25	33
15	23	5	.31	146	3	1.2	584	42	69
16	23	4	.25	105	2	.57	385	16	17
17	24	3	.19	85	1	.23	336	10	9.1
18	24	3	.19	78	1	.21	390	14	15
19	25	3	.20	71	1	.19	414	14	16
20	29	1	.08	66	1	.18	396	9	9.6
21	31	2	.17	76	1	.21	358	6	5.8
22	31	2	.17	88	1	.24	4780	1490	23300
23	32	1	.09	78	1	.21	3720	525	5270
24	32	1	.09	73	1	.20	3250	820	7440
25	32	1	.09	88	21	5.0	2620	195	1380
26	32	1	.09	232	36	68	1700	80	367
27	31	1	.08	2140	331	2270	1310	48	170
28	31	1	.08	1580	356	1770	960	36	93
29	31	1	.08	1450	158	619	797	26	56
30	30	1	.08	920	62	154	672	19	34
31	31	1	.08	--	--	--	592	13	21
TOTAL	994	--	5.46	8522	--	5001.45	35040	--	49250.6

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	656	20	35	1220	63	208	6090	825	13600
2	707	22	42	1040	46	129	7110	1090	21400
3	761	23	47	980	36	95	13400	1940	74000
4	648	15	26	2260	360	2580	8140	1100	24200
5	576	13	20	2830	260	1990	6030	800	13000
6	544	14	21	2220	124	743	4580	560	6920
7	560	13	20	1900	80	410	3850	440	4570
8	552	9	13	1650	60	267	3400	325	2980
9	506	8	11	1510	50	204	3180	293	2520
10	492	9	12	1380	40	149	3450	376	3500
11	478	10	13	1290	34	118	3860	398	4180
12	457	6	7.4	1220	32	105	3610	285	2780
13	568	7	11	1170	30	95	3670	275	2720
14	536	8	12	1170	30	95	3340	230	2070
15	478	9	12	1190	33	106	2860	195	1510
16	485	6	7.9	1180	32	102	2890	208	1620
17	485	8	10	1140	28	86	2860	185	1430
18	600	10	16	1090	24	71	2680	164	1190
19	1290	175	610	1060	22	63	2220	125	749
20	3340	510	4600	1520	128	525	1870	101	510
21	6710	1330	29200	1690	84	383	1630	85	374
22	11900	1670	68900	3280	986	13100	2880	234	2220
23	18700	2520	150000	5760	878	14500	3040	190	1560
24	5810	750	11800	8220	999	22400	2830	182	1600
25	3900	470	4950	5520	577	9230	5320	569	8630
26	2990	321	2590	8380	850	19200	3360	213	1930
27	2410	375	2440	6510	585	10300	2720	140	1030
28	1950	197	1040	10100	1460	50000	2250	115	699
29	1600	102	441	12800	1750	60500	1960	110	582
30	1490	88	354	--	--	--	1760	75	356
31	1370	75	277	--	--	--	1620	63	276
TOTAL	73549	--	277538.3	91280	--	207754	118460	--	204706

	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	1510	51	208	898	21	51	337	6	5.5
2	1580	70	299	890	17	41	314	6	5.1
3	1570	65	276	914	17	42	301	6	4.9
4	1450	55	215	874	21	50	281	5	3.8
5	2160	198	1440	914	20	49	273	4	2.9
6	3740	404	4080	866	17	40	265	4	2.9
7	3020	258	2100	858	17	39	253	4	2.7
8	2360	160	1020	866	12	28	245	4	2.6
9	1930	80	417	770	14	29	245	3	2.0
10	1650	88	392	730	12	24	265	3	2.1
11	2030	206	1350	738	12	24	245	3	2.0
12	3360	364	3480	716	13	25	229	3	1.9
13	3100	185	1550	695	10	19	214	4	2.3
14	2460	123	817	702	11	21	203	4	2.2
15	2410	160	1040	709	9	17	196	3	1.6
16	2400	140	907	688	9	17	203	2	1.1
17	2080	104	584	702	11	21	186	2	1.0
18	1790	86	416	639	9	16	177	3	1.4
19	1580	60	256	618	8	13	170	3	1.4
20	1430	65	251	667	10	18	161	6	2.6
21	1350	50	182	702	13	25	153	3	1.2
22	1290	45	157	688	8	15	142	3	1.2
23	1200	43	139	611	6	9.9	134	3	1.1
24	1310	60	212	569	4	6.1	131	3	1.1
25	1200	37	120	520	5	7.0	126	3	1.0
26	1050	31	88	508	5	6.9	122	3	.99
27	1010	30	82	490	4	5.3	115	3	.93
28	1010	32	87	490	4	5.3	113	3	.92
29	938	24	61	478	4	5.2	110	4	1.2
30	882	20	48	454	5	6.1	103	6	1.7
31	--	--	--	380	6	6.2	--	--	--
TOTAL	54850	--	22274	21344	--	682.0	6012	--	63.34

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	99	3	.80	35	1	.09	15	1	.04
2	92	3	.75	35	1	.09	14	1	.04
3	85	3	.69	34	1	.09	14	1	.04
4	81	3	.66	37	1	.10	14	1	.04
5	75	3	.61	28	2	.15	16	1	.04
6	71	3	.58	26	2	.14	15	1	.04
7	67	2	.36	26	1	.07	20	1	.05
8	63	2	.34	24	1	.06	18	1	.05
9	60	3	.49	23	1	.06	17	1	.05
10	58	2	.31	22	1	.06	15	1	.04
11	55	1	.15	21	1	.06	14	1	.04
12	53	2	.29	20	1	.05	14	1	.04
13	48	2	.26	19	1	.05	14	1	.04
14	45	2	.24	18	1	.05	14	1	.04
15	41	3	.33	18	1	.05	13	1	.04
16	36	3	.29	20	1	.05	13	1	.04
17	38	2	.21	22	1	.06	12	1	.03
18	45	2	.24	24	1	.06	12	1	.03
19	48	2	.26	24	1	.06	12	1	.03
20	50	1	.14	23	1	.06	12	1	.03
21	38	1	.10	23	1	.06	12	1	.03
22	37	1	.10	24	1	.06	12	1	.03
23	35	1	.09	22	1	.06	12	1	.03
24	41	1	.11	21	1	.06	12	1	.03
25	45	1	.12	20	1	.05	12	1	.03
26	42	1	.11	20	1	.05	24	2	.13
27	39	1	.11	18	1	.05	548	722	1310
28	38	1	.10	18	1	.05	293	80	63
29	38	1	.10	17	1	.05	164	7	3.1
30	38	1	.10	17	1	.05	113	3	.92
31	34	1	.09	16	1	.04	--	--	--
TOTAL	1635	--	9.13	715	--	2.04	1490	--	1378.09

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 413891
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 768664.41

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.											
27...	0815	9.0	2470	359	2390	41	56	63	71	79	--
DEC.											
06...	1235	5.5	4300	1650	19200	24	28	40	52	64	71
22...	0850	7.0	5020	2520	34200	23	33	44	58	71	81
22...	1635	6.0	6730	1770	32200	26	37	50	63	72	81
23...	0815	6.0	3980	526	5650	33	45	51	57	63	70
24...	1535	6.5	4000	1220	13200	19	25	31	38	43	51
JAN.											
20...	0715	8.0	3400	640	5880	3	9	28	40	46	--
21...	1250	9.0	5300	1090	15600	8	14	25	36	41	--
22...	0805	8.5	8250	856	19100	11	22	36	49	55	--
22...	1615	9.0	10100	1560	42500	11	17	26	34	39	60
23...	0910	7.5	20400	2550	140000	20	27	39	50	60	--
24...	1015	5.5	5790	709	11100	18	30	40	51	56	--
FEB.											
24...	0950	7.5	9210	1370	34100	19	27	34	43	48	61
29...	1005	7.5	13100	1760	62300	18	27	34	42	46	58
MAR.											
03...	1535	11.0	13100	1510	53400	20	32	39	48	52	69
SEP.											
27...	0950	17.0	569	1220	1870	54	68	84	94	96	--

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
NOV.											
27...	85	--	86	--	90	--	98	--	100	--	--
DEC.											
06...	--	72	--	80	--	98	--	100	--	--	--
22...	--	86	--	94	--	100	--	--	--	--	--
22...	--	85	--	92	--	99	--	100	--	--	--
23...	--	75	--	85	--	99	--	100	--	--	--
24...	--	59	--	70	--	90	--	100	--	--	--
JAN.											
20...	59	--	62	--	72	--	92	--	100	--	--
21...	58	--	65	--	80	--	94	--	100	--	--
22...	75	--	78	--	84	--	93	--	100	--	--
22...	--	68	--	85	--	100	--	--	--	--	--
23...	67	--	73	--	85	--	93	--	96	--	100
24...	73	--	77	--	84	--	93	--	100	--	--
FEB.											
24...	--	70	--	86	--	97	--	100	--	--	--
29...	--	69	--	79	--	92	--	96	--	100	--
MAR.											
03...	--	77	--	86	--	97	--	100	--	--	--
SEP.											
27...	100	--	--	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.								
01...	1000	5.5	1	520	1	2	6	13
01...	1005	5.5	1	520	--	--	--	2
01...	1010	5.5	1	520	--	--	--	--
01...	1015	5.5	1	520	--	--	2	8

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
DEC.							
01...	19	27	39	58	68	100	--
01...	3	6	9	15	22	45	100
01...	--	1	3	12	23	48	100
01...	34	57	74	93	100	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	NUMBER OF SAMPLING POINTS	DISCHARGE (CFS)	STREAM WIDTH (FT)	SEDIMENT BEDLOAD DISCHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM
FEB.							
15...	1400	4	E1190	E110	119	7	48

DATE	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
FEB.						
15...	86	92	94	98	99	100

E Estimated.

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 mile southeast of Fort Seward, 1.9 miles upstream from Dobbyn Creek, and 11.8 miles northeast of Garberville.

DRAINAGE AREA.--2,107 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1972 (partial-record station).
Water temperatures: November 1960 to September 1972.
Sediment records: October 1965 to September 1972.
Turbidity: Water years 1966-68, 1971-72 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Minimum, 2.5°C Feb. 6.
Sediment concentrations: Maximum daily, 2,940 mg/l Jan. 23; minimum daily, 1 mg/l on several days.
Sediment discharge: Maximum daily, 431,000 tons Jan. 23; minimum daily, 0.14 ton Sept. 7-9, 23.

Period of record:
Water temperatures: Maximum (1960-64, 1965-71), 34.5°C June 25, 1968; minimum (1960-65, 1965-72), 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 1965-71.
Sediment discharge: Maximum daily, 4,270,000 tons Jan. 4, 1966; minimum daily, 0.06 ton Sept. 23, 24, 1970.

REMARKS.--No thermograph record Dec. 25 to Mar. 23, June 6 to July 7, July 20 to Aug. 22, probe inoperative; Sept. 8-30, recorder malfunction. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)
NOV.								
16...	1140	678	.17	--	.00	.0	.17	.10
JAN.								
11...	1025	1000	.05	--	.00	.0	.05	.04
25...	1120	15500	.07	--	.00	.0	.07	.32
MAR.								
09...	1600	8630	.01	.00	.00	.0	.01	.31
MAY								
04...	1015	1500	.03	.10	.00	.0	.03	.08
31...	1200	630	.00	.00	.00	.0	.00	.04

DATE	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	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.								
16...	.13	.18	.28	.09	.03	270	9.5	5.0
JAN.								
11...	.05	.16	.20	.04	.02	--	5.0	.5
25...	.41	.04	.36	.62	.01	--	7.0	3.0
MAR.								
09...	.40	.02	.33	.19	.01	--	12.0	.5
MAY								
04...	.10	.03	.11	.03	.00	--	16.5	.5
31...	.05	.00	.04	.03	.01	--	19.5	.0

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
NOV.									
16...	1140	.00	.0	.00	.00	.00	--	.00	.00
JAN.									
11...	1025	.00	.0	.00	.00	.00	.00	.00	.00
25...	1145	.00	.0	.00	.00	.00	.00	.00	.00
MAR.									
09...	1600	.00	.0	.00	.00	.00	.00	.00	.00
MAY									
04...	1015	.00	.0	.00	.00	.00	.00	.00	.00

DATE	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
NOV.									
16...	.00	.00	.00	--	--	--	.00	.00	.00
JAN.									
11...	.00	.00	.00	.00	.00	.00	.00	.00	.00
25...	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR.									
09...	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY									
04...	.00	.00	.00	.00	.00	.00	.00	.00	.00

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV.									
16...	1140	2	0	0	0	2	0	.1	20
JAN.									
11...	1025	3	1	0	2	1	4	.1	8
25...	1120	0	1	0	0	4	0	.3	8
MAR.									
09...	1600	3	0	0	0	2	0	1.4	20
MAY									
04...	1015	0	0	0	1	2	1	1.7	8
31...	1200	0	0	0	0	20	0	.1	8

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	17.0	-- 15.0	12.5	-- 12.0	8.0	-- 7.5	-- 5.5	--	-- 5.0	--	-- 7.5	--
2	18.5	-- 15.0	12.5	-- 12.0	8.0	-- 7.0	-- 6.5	--	-- 4.0	--	-- 9.0	--
3	19.0	-- 16.5	12.5	-- 12.0	8.5	-- 7.0	-- 5.5	--	-- 4.5	--	-- 9.0	--
4	20.0	-- 16.5	12.0	-- 11.5	7.5	-- 7.0	-- 4.5	--	-- 5.5	--	-- 10.0	--
5	20.5	-- 17.5	12.5	-- 12.0	7.5	-- 7.0	-- 4.0	--	-- 5.5	--	-- 10.5	--
6	21.0	-- 18.0	12.5	-- 12.0	8.0	-- 7.5	-- 3.5	--	-- 2.5	--	-- 11.5	--
7	21.5	-- 18.0	12.0	-- 11.5	7.5	-- 6.5	-- 4.5	--	-- 8.0	--	-- 12.0	--
8	21.5	-- 18.5	12.0	-- 11.5	6.5	-- 6.0	-- 4.5	--	-- 8.0	--	-- 12.5	--
9	21.5	-- 19.0	11.5	-- 11.0	7.0	-- 6.0	-- 5.5	--	-- 8.0	--	-- 12.0	--
10	20.5	-- 18.5	11.0	-- 11.0	6.5	-- 6.0	-- 5.5	--	-- 8.5	--	-- 10.5	--
11	21.0	-- 18.0	11.0	-- 11.0	6.5	-- 6.0	-- 5.0	--	-- 9.0	--	-- 10.5	--
12	21.0	-- 18.0	11.0	-- 11.0	6.5	-- 6.0	-- 5.5	--	-- 9.5	--	-- 11.0	--
13	20.0	-- 18.0	11.0	-- 11.0	6.5	-- 6.0	-- 6.5	--	-- 8.0	--	-- 13.0	--
14	19.0	-- 17.0	11.0	-- 10.5	7.0	-- 6.0	-- 8.0	--	-- 8.0	--	-- 13.0	--
15	17.0	-- 16.0	10.5	-- 10.0	6.5	-- 6.0	-- 6.5	--	-- 9.0	--	-- 14.0	--
16	17.0	-- 15.0	10.0	-- 9.5	6.5	-- 6.0	-- 6.5	--	-- 11.0	--	-- 15.5	--
17	15.5	-- 14.0	10.0	-- 9.5	6.5	-- 6.0	-- 6.0	--	-- 10.5	--	-- 15.5	--
18	15.5	-- 14.0	10.0	-- 9.5	6.0	-- 6.0	-- 7.0	--	-- 10.0	--	-- 15.0	--
19	14.5	-- 14.0	10.0	-- 9.5	6.0	-- 6.0	-- --	--	-- 8.5	--	-- 12.5	--
20	15.0	-- 14.0	10.0	-- 9.5	6.0	-- 6.0	-- --	--	-- 9.5	--	-- 14.5	--
21	15.0	-- 13.0	9.5	-- 9.5	6.0	-- 5.5	-- 8.5	--	-- 9.5	--	-- 12.5	--
22	14.5	-- 13.0	9.5	-- 9.0	6.0	-- 5.5	-- 9.0	--	-- 8.0	--	-- 11.5	--
23	15.0	-- 14.0	9.5	-- 9.0	6.5	-- 6.0	-- 8.0	--	-- 7.0	--	-- 11.5	--
24	15.0	-- 13.5	9.0	-- 9.0	6.5	-- 6.0	-- 6.5	--	-- 7.0	--	11.0	-- 10.5
25	14.5	-- 13.5	9.0	-- 9.0	-- 5.0	--	-- 7.0	--	-- 7.0	--	11.0	-- 10.5
26	14.0	-- 13.0	9.0	-- 9.0	-- 5.0	--	-- 5.0	--	-- 8.0	--	11.0	-- 10.5
27	13.5	-- 13.0	9.0	-- 8.5	-- 6.0	--	-- 4.0	--	-- 9.5	--	11.5	-- 11.0
28	13.5	-- 13.0	8.5	-- 8.0	-- 5.0	--	-- 4.5	--	-- 10.0	--	11.5	-- 11.0
29	13.0	-- 12.5	8.5	-- 8.5	-- 6.0	--	-- 5.0	--	-- 8.5	--	11.0	-- 10.5
30	13.0	-- 12.0	8.5	-- 8.0	-- 6.5	--	-- 5.0	--	-- --	--	11.5	-- 10.5
31	12.5	-- 12.0	--	-- --	-- 6.5	--	-- 5.0	--	-- --	--	11.0	-- 11.0
MONTH	21.5	-- 12.0	12.5	-- 8.0	--	-- --	-- --	--	-- --	--	--	-- --

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	11.5	-- 11.0	19.5	-- 10.5	28.0	-- 17.5	-- --	--	-- --	--	23.0	-- 20.0
2	12.0	-- 11.0	21.0	-- 12.0	25.0	-- 17.5	-- --	--	-- --	--	22.5	-- 20.0
3	12.0	-- 11.5	21.0	-- 13.0	27.0	-- 17.5	-- --	--	-- --	--	22.5	-- 19.0
4	12.0	-- 11.5	21.0	-- 14.0	29.5	-- 18.0	-- --	--	-- --	--	23.0	-- 20.0
5	11.5	-- 11.0	20.5	-- 14.0	28.5	-- 18.5	-- --	--	-- --	--	23.0	-- 20.5
6	11.5	-- 11.0	20.0	-- 14.0	--	-- --	-- --	--	-- --	--	22.0	-- 20.0
7	11.5	-- 11.0	16.0	-- 13.5	--	-- --	-- --	--	-- --	--	22.0	-- 18.5
8	11.5	-- 11.0	20.0	-- 12.5	--	-- --	27.0	-- 23.0	-- --	--	--	-- --
9	11.5	-- 11.0	19.5	-- 13.5	--	-- --	28.0	-- 24.0	-- --	--	--	-- --
10	11.5	-- 11.0	20.0	-- 13.5	--	-- --	29.0	-- 24.5	-- --	--	--	-- --
11	11.0	-- 11.0	21.5	-- 13.0	--	-- --	29.0	-- 25.5	-- --	--	--	-- --
12	11.0	-- 11.0	25.0	-- 13.5	--	-- --	28.0	-- 24.5	-- --	--	--	-- --
13	11.0	-- 11.0	25.5	-- 15.0	--	-- --	27.0	-- 24.0	-- --	--	--	-- --
14	11.5	-- 11.0	24.5	-- 16.0	--	-- --	26.5	-- 23.0	-- --	--	--	20.0 --
15	11.5	-- 11.0	25.0	-- 15.5	--	-- --	26.0	-- 22.5	-- --	--	--	-- --
16	11.5	-- 11.0	24.0	-- 16.0	--	-- --	25.5	-- 22.5	-- --	--	--	-- --
17	11.5	-- 11.0	20.0	-- 15.0	--	-- --	26.0	-- 22.5	-- --	--	--	-- --
18	12.0	-- 11.0	20.0	-- 14.5	--	-- --	25.5	-- 22.5	-- --	--	--	-- --
19	12.0	-- 11.5	18.0	-- 14.5	--	-- --	25.5	-- 22.0	-- --	--	--	-- --
20	13.0	-- 11.5	15.0	-- 14.5	--	-- --	-- --	--	-- --	--	--	-- --
21	16.5	-- 12.0	15.0	-- 14.5	--	-- --	-- --	--	-- --	--	--	-- --
22	20.0	-- 12.0	20.0	-- 15.0	--	-- --	-- --	--	-- --	--	--	-- --
23	14.0	-- 11.5	21.0	-- 15.0	--	-- --	-- --	--	22.5	-- 19.5	--	-- --
24	14.5	-- 10.5	23.0	-- 15.5	--	-- --	-- --	--	22.0	-- 19.5	--	-- --
25	17.0	-- 11.0	25.5	-- 14.0	--	-- --	-- --	--	23.0	-- 19.0	--	-- --
26	19.0	-- 11.0	27.0	-- 15.0	--	-- --	-- --	--	23.5	-- 20.0	--	-- --
27	21.0	-- 13.0	27.5	-- 17.0	--	-- --	-- --	--	24.5	-- 21.0	--	-- --
28	15.5	-- 11.5	28.0	-- 16.5	--	-- --	-- --	--	24.0	-- 21.0	--	-- --
29	16.0	-- 8.0	27.5	-- 16.5	--	-- --	-- --	--	24.0	-- 21.0	--	-- --
30	18.0	-- 9.5	27.5	-- 17.0	--	-- --	-- --	--	23.5	-- 20.5	--	-- --
31	--	-- --	27.0	-- 17.5	--	-- --	-- --	--	23.0	-- 20.0	--	-- --
MONTH	21.0	-- 8.0	28.0	-- 10.5	--	-- --	-- --	--	--	-- --	--	-- --

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	142	10	3.8	99	1	.27	1980	45	241
2	149	4	1.6	116	1	.31	1980	109	636
3	145	3	1.2	128	2	.69	2780	130	976
4	124	3	1.0	120	2	.65	2670	70	505
5	117	3	.95	105	1	.28	2220	53	318
6	101	3	.82	95	1	.26	7030	639	12800
7	92	3	.75	84	2	.45	5450	307	5040
8	89	3	.72	84	1	.23	2700	72	525
9	86	4	.93	101	2	.55	2410	86	626
10	83	3	.67	132	2	.71	4210	174	1980
11	75	2	.41	155	5	2.1	3590	108	1050
12	75	2	.41	232	10	6.3	5140	264	4010
13	73	2	.39	1280	189	811	6040	188	3070
14	70	2	.38	1750	147	732	3640	95	934
15	68	2	.37	1080	28	82	3630	60	588
16	66	2	.36	665	10	18	2670	35	252
17	63	1	.17	499	6	8.1	2050	28	155
18	61	1	.16	390	3	3.2	1950	22	116
19	58	5	.78	330	3	2.7	1940	12	63
20	66	2	.36	293	3	2.4	1760	14	67
21	66	2	.36	270	2	1.5	1590	15	64
22	74	2	.40	239	3	1.9	11800	1490	60600
23	108	2	.58	235	2	1.3	13300	810	29100
24	126	2	.68	251	2	1.4	10100	637	18400
25	136	1	.37	244	5	3.3	10600	470	13500
26	122	1	.33	728	276	1020	6080	180	2950
27	113	1	.31	4100	1100	12400	4390	140	1660
28	103	1	.28	3950	490	5250	3520	54	513
29	105	1	.28	5630	464	7140	2710	40	293
30	101	1	.27	3570	120	1160	2310	28	175
31	98	1	.26	--	--	--	1980	24	128
TOTAL	2955	--	20.35	26955	--	28651.60	134220	--	161335

	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	1850	17	85	4300	46	534	21500	850	49300
2	1880	15	76	3660	37	366	20800	810	45500
3	1860	15	75	3250	33	290	33200	1640	149000
4	1720	12	56	6130	298	6430	24200	990	64700
5	1490	11	44	9940	409	11000	18200	620	30500
6	1360	11	40	8500	193	4430	14500	440	17200
7	1280	7	24	6760	100	1830	11800	320	10200
8	1240	6	20	5580	72	1080	9900	250	6680
9	1170	4	13	4770	56	721	8650	225	5250
10	1080	4	12	4080	42	463	8380	250	5660
11	990	5	13	3550	33	316	8880	266	6380
12	960	6	16	3160	28	239	7850	212	4490
13	960	4	10	2910	26	204	6900	178	3320
14	978	5	13	2790	22	166	6360	155	2660
15	948	3	7.7	2740	20	148	5340	128	1850
16	924	4	10	2550	20	138	4930	114	1520
17	912	2	4.9	2420	20	131	4760	104	1340
18	924	4	10	2280	18	111	4420	92	1100
19	1310	10	35	2170	18	105	3940	80	851
20	3380	101	1160	2620	35	248	3380	65	593
21	11400	699	29600	3320	49	437	3030	54	442
22	24500	1550	118000	6040	420	10100	4050	145	2000
23	52200	2940	431000	18600	1550	77000	7430	339	7160
24	22200	1090	65300	27000	1160	84300	5800	224	3850
25	15500	590	24700	21000	736	42400	10900	652	19500
26	12500	400	13500	30200	1330	109000	7450	250	5030
27	8900	260	6250	21900	730	43200	5620	124	1880
28	7450	180	3620	23300	885	60100	4680	88	1110
29	5980	115	1860	35500	1910	188000	4110	65	721
30	5170	82	1140	--	--	--	3650	50	493
31	4770	67	863	--	--	--	3310	40	357
TOTAL	197786	--	697557.6	271020	--	643487	287920	--	450637

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	3070	30	249	1690	16	73	586	2	3.2
2	2890	23	179	1590	15	64	554	2	3.0
3	2970	20	160	1530	15	62	522	2	2.8
4	2780	15	113	1480	14	56	494	2	2.7
5	2800	15	113	1460	13	51	454	2	2.5
6	5380	247	3790	1430	13	50	427	2	2.3
7	5440	160	2350	1380	12	45	399	2	2.2
8	4490	100	1210	1360	12	44	374	2	2.0
9	3900	72	758	1310	11	39	374	2	2.0
10	3340	56	505	1270	11	38	406	3	3.3
11	3600	62	603	1140	10	31	454	7	8.6
12	8730	500	13000	1080	9	26	413	6	6.7
13	10900	554	16900	1030	8	22	371	5	5.0
14	7530	260	5290	1020	7	19	342	4	3.7
15	6060	160	2620	1030	7	19	315	4	3.4
16	5420	120	1760	996	6	16	294	4	3.2
17	4850	91	1190	1030	6	17	276	4	3.0
18	4300	72	836	978	6	16	267	4	2.9
19	3790	50	512	888	6	14	257	4	2.8
20	3200	40	346	870	5	12	244	4	2.6
21	2890	35	273	984	5	13	226	3	1.8
22	2700	31	226	1070	5	14	209	3	1.7
23	2540	28	192	936	5	13	196	3	1.6
24	2770	25	187	835	4	9.0	187	3	1.5
25	2820	25	190	805	4	8.7	183	3	1.5
26	2490	23	155	775	4	8.4	183	3	1.5
27	2190	21	124	745	3	6.0	176	3	1.4
28	2020	20	109	715	3	5.8	170	3	1.4
29	1920	19	98	695	3	5.6	161	3	1.3
30	1810	18	88	665	2	3.6	150	3	1.2
31	--	--	--	625	2	3.4	--	--	--
TOTAL	119590	--	54126	33412	--	804.5	9664	--	82.8

	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	143	2	.77	52	2	.28	32	2	.17
2	138	2	.75	51	2	.28	32	2	.17
3	130	2	.70	48	2	.26	32	2	.17
4	123	2	.66	48	2	.26	31	2	.17
5	120	2	.65	48	2	.26	29	2	.16
6	115	2	.62	48	2	.26	28	2	.15
7	110	2	.59	47	2	.25	26	2	.14
8	106	2	.57	44	2	.24	26	2	.14
9	103	2	.56	42	2	.23	26	2	.14
10	99	2	.53	39	2	.21	27	2	.15
11	95	2	.51	39	2	.21	30	2	.16
12	92	2	.50	36	2	.19	31	2	.17
13	91	2	.49	36	2	.19	29	2	.16
14	89	2	.48	35	2	.19	29	2	.16
15	88	2	.48	34	2	.18	28	2	.15
16	85	2	.46	36	2	.19	28	2	.15
17	80	2	.43	38	2	.21	28	2	.15
18	74	2	.40	37	2	.20	28	2	.15
19	70	2	.38	41	2	.22	28	2	.15
20	67	2	.36	45	2	.24	27	2	.15
21	64	2	.35	47	2	.25	27	2	.15
22	63	2	.34	48	2	.26	27	2	.15
23	61	2	.33	47	2	.25	26	2	.14
24	61	2	.33	44	2	.24	27	2	.15
25	61	2	.33	43	2	.23	27	2	.15
26	61	2	.33	41	2	.22	47	3	.38
27	59	2	.32	41	2	.22	98	5	1.3
28	59	2	.32	39	2	.21	1110	300	899
29	58	2	.31	37	2	.20	630	100	170
30	58	2	.31	35	2	.19	399	40	43
31	55	2	.30	32	2	.17	--	--	--
TOTAL	2678	--	14.46	1297	--	6.99	2993	--	1117.53

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1090490
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 2037840.83

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.										
27...	0900	9.0	3160	1170	9980	46	58	72	91	93
29...	1550	8.5	5720	355	5480	52	68	79	91	95
DEC.										
06...	1030	7.5	8240	774	17200	16	33	44	59	66
22...	1455	6.0	16700	2490	112000	27	32	49	61	77
24...	1555	6.0	11300	776	23700	20	27	48	58	68
JAN.										
21...	1600	8.5	14100	1180	44900	15	29	43	62	74
22...	1325	9.0	20000	1110	59900	14	27	44	58	74
22...	1700	9.0	24800	1680	112000	15	23	41	55	64
23...	0825	8.0	65400	2960	523000	23	36	49	63	76
23...	1540	7.5	47000	2260	287000	20	33	46	59	76
FEB.										
04...	1515	5.5	6840	286	5280	--	--	--	--	--
24...	0730	7.0	27000	1420	104000	23	32	44	56	65
26...	0910	8.0	32600	1410	124000	20	30	40	51	59
29...	0730	8.5	41300	2160	241000	23	26	38	52	66
MAR.										
14...	1625	13.0	6260	180	3040	--	--	--	--	--

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.									
27...	--	100	--	--	--	--	--	--	--
29...	--	99	--	100	--	--	--	--	--
DEC.									
06...	--	96	--	98	--	100	--	--	--
22...	--	82	--	92	--	98	--	99	100
24...	--	90	--	93	--	99	--	100	--
JAN.									
21...	--	91	--	94	--	99	--	100	--
22...	--	89	--	91	--	97	--	100	--
22...	--	87	--	91	--	99	--	100	--
23...	89	--	93	--	100	--	--	--	--
23...	87	--	90	--	99	--	100	--	--
FEB.									
04...	--	95	--	96	--	100	--	--	--
24...	--	80	--	88	--	99	--	100	--
26...	--	76	--	87	--	98	--	100	--
29...	80	--	91	--	99	--	100	--	--
MAR.									
14...	--	76	--	80	--	87	--	94	100

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
FEB.							
08...	1600	8.0	5	5300	196	241	1

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
FEB.							
08...	9	43	69	80	90	97	100

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)	DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
Oct. 20, 1971.	--	2	1	Dec. 26.....	--	146	75
Oct. 23.....	--	2	1	Dec. 27.....	--	156	95
Oct. 26.....	--	1	1	Dec. 28.....	--	50	35
Oct. 29.....	--	1	0	Dec. 29.....	--	38	30
Oct. 31.....	--	1	1	Dec. 30.....	--	27	20
Nov. 2.....	--	1	1	Dec. 31.....	--	24	15
Nov. 4.....	--	2	1	Jan. 1, 1972..	--	17	15
Nov. 5.....	--	1	1	Jan. 2.....	--	14	10
Nov. 7.....	--	2	1	Jan. 3.....	--	16	10
Nov. 8.....	--	1	1	Jan. 4.....	--	11	10
Nov. 9.....	--	2	1	Jan. 5.....	--	12	9
Nov. 10.....	--	2	2	Jan. 6.....	--	9	8
Nov. 11.....	--	5	5	Jan. 7.....	--	7	6
Nov. 12.....	--	6	5	Jan. 8.....	--	6	6
Nov. 13.....	--	188	95	Jan. 9.....	--	4	4
Nov. 14.....	--	120	70	Jan. 10.....	--	4	4
Nov. 15.....	--	19	15	Jan. 11.....	--	5	5
Nov. 16.....	--	10	10	Jan. 12.....	--	6	4
Nov. 17.....	--	6	5	Jan. 13.....	--	4	4
Nov. 18.....	--	3	3	Jan. 14.....	--	5	4
Nov. 19.....	--	3	2	Jan. 15.....	--	3	3
Nov. 20.....	--	3	2	Jan. 16.....	--	4	4
Nov. 21.....	--	2	1	Jan. 17.....	--	2	2
Nov. 22.....	--	3	1	Jan. 18.....	--	4	3
Nov. 23.....	--	2	1	Jan. 19.....	--	9	8
Nov. 24.....	--	2	1	Jan. 20.....	--	116	50
Nov. 25.....	--	5	4	Jan. 21.....	--	1180	420
Nov. 26.....	--	3	2	Jan. 22.....	1325	1110	450
Nov. 27.....	--	1170	220	Jan. 22.....	1700	1680	480
Nov. 29.....	--	355	120	Jan. 23.....	0825	2960	780
Nov. 30.....	--	88	55	Jan. 23.....	1540	2260	700
Dec. 1.....	--	36	30	Jan. 24.....	--	936	330
Dec. 2.....	--	188	90	Jan. 25.....	--	558	250
Dec. 3.....	--	123	60	Jan. 26.....	--	378	160
Dec. 4.....	--	76	45	Jan. 27.....	--	266	100
Dec. 5.....	--	41	30	Jan. 28.....	--	159	70
Dec. 6.....	--	774	260	Jan. 29.....	--	113	55
Dec. 7.....	--	210	170	Jan. 30.....	--	80	45
Dec. 8.....	--	60	40	Jan. 31.....	--	66	40
Dec. 9.....	--	43	35	Feb. 1.....	--	44	35
Dec. 11.....	--	116	70	Feb. 2.....	--	35	30
Dec. 12.....	--	383	220	Feb. 3.....	--	32	25
Dec. 13.....	--	154	70	Feb. 4.....	--	286	100
Dec. 14.....	--	93	60	Feb. 5.....	--	466	200
Dec. 15.....	--	54	35	Feb. 6.....	--	184	85
Dec. 16.....	--	31	25	Feb. 7.....	--	93	60
Dec. 17.....	--	24	20	Feb. 8.....	--	60	40
Dec. 18.....	--	21	15	Feb. 9.....	--	53	50
Dec. 19.....	--	12	25	Feb. 10.....	--	40	40
Dec. 20.....	--	14	10	Feb. 11.....	--	32	35
Dec. 21.....	--	12	10	Feb. 12.....	--	28	30
Dec. 22.....	--	2490	710	Feb. 13.....	--	26	25
Dec. 23.....	--	620	290	Feb. 14.....	--	21	25
Dec. 24.....	--	776	300	Feb. 15.....	--	20	20
Dec. 25.....	--	461	270	Feb. 16.....	--	20	25

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE OF COLLECTION	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)	DATE OF COLLECTION	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
Feb. 17, 1972.	20	20	Mar. 11.....	258	95
Feb. 18.....	18	20	Mar. 12.....	216	90
Feb. 19.....	18	20	Mar. 13.....	174	85
Feb. 20.....	30	30	Mar. 14.....	226	95
Feb. 21.....	45	35	Mar. 15.....	123	55
Feb. 22.....	424	90	Ma		
Feb. 23.....	1460	40	Mar. 16.....	113	50
Feb. 24.....	1420	40	Mar. 17.....	106	55
Feb. 25.....	632	90	Mar. 18.....	90	45
Feb. 26.....	1410	45	Mar. 19.....	84	50
			Mar. 20.....	63	35
Feb. 27.....	738	85	Mar. 21.....	52	30
Feb. 28.....	859	20	Mar. 22.....	152	60
Feb. 29.....	2160	90	Mar. 23.....	276	100
Mar. 1.....	740	90	Mar. 24.....	210	80
Mar. 2.....	784	90	Mar. 25.....	776	150
Mar. 3.....	2040	25	Mar. 26.....	244	90
Mar. 4.....	1080	65	Mar. 27.....	112	55
Mar. 5.....	667	95	Mar. 28.....	80	40
Mar. 6.....	422	190	Mar. 29.....	62	30
Mar. 7.....	305	100	Mar. 30.....	48	25
Mar. 8.....	248	100	Mar. 31.....	40	25
Mar. 9.....	224	90	May 31.....	2	2
Mar. 10.....	230	90	July 11.....	2	2

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 mile upstream from Northwestern Pacific Railroad Bridge, 0.4 mile north of town of South Fork, and 0.5 mile upstream from South Fork.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1972. 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 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	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)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.									
20...	1215	66	--	--	--	--	--	--	--
NOV.									
10...	1400	132	--	--	--	--	--	--	--
DEC.									
14...	1415	3640	--	--	--	--	--	--	--
JAN.									
11...	1400	990	--	--	--	--	--	--	--
FEB.									
08...	1630	5580	--	--	--	--	--	--	--
MAR.									
07...	1430	11800	--	--	--	--	--	--	--
APR.									
11...	1330	3600	--	--	--	--	--	--	--
MAY									
02...	1415	1590	5.2	92	0	75	2.9	82	7
JUNE									
06...	1345	427	5.6	103	0	84	2.1	77	0
JULY									
12...	1215	92	--	--	--	--	--	--	--
AUG.									
02...	1300	51	7.0	146	0	120	6.3	130	10
SEP.									
13...	1430	29	7.6	151	0	124	6.4	145	21

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 BORON (B) (UG/L)
OCT.						
20...	--	--	--	14.0	0	--
NOV.						
10...	--	--	--	13.0	34	--
DEC.						
14...	--	--	--	6.0	60	--
JAN.						
11...	--	--	--	6.0	4	--
FEB.						
08...	--	--	--	10.0	45	--
MAR.						
07...	--	--	--	15.0	149	--
APR.						
11...	--	--	--	12.0	20	--
MAY						
02...	.2	181	7.9	17.0	3	200
JUNE						
06...	.3	212	8.0	21.5	1	100
JULY						
12...	--	--	--	22.0	2	--
AUG.						
02...	.3	--	7.8	22.0	0	200
SEP.						
13...	.3	308	7.9	21.5	0	200

11475250 EEL RIVER AT SOUTH FORK, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.						
20...	1215	66	302	7.7	14.0	10.3
NOV.						
10...	1400	132	268	7.5	13.0	11.0
DEC.						
14...	1415	3640	143	7.4	6.0	12.6
JAN.						
11...	1400	990	201	7.5	6.0	12.9
FEB.						
08...	1630	5580	137	7.4	10.0	11.8
MAR.						
07...	1430	11800	137	7.6	15.0	10.0
APR.						
11...	1330	3600	148	7.7	12.0	10.9
MAY						
02...	1415	1590	185	7.8	17.0	10.0
JUNE						
06...	1345	427	196	8.1	21.5	9.4
JULY						
12...	1215	92	279	7.9	22.0	8.5
AUG.						
02...	1300	51	295	7.6	22.0	8.5
SEP.						
13...	1430	29	291	7.8	21.5	9.3

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 mile upstream from mouth, and 5.3 miles north of Branscomb.

DRAINAGE AREA.--6.50 sq mi.

PERIOD OF RECORD.--Chemical analyses: February 1968 to September 1972.
Water temperatures: October 1967 to September 1972.
Sediment records: Water years 1969-72 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 20.0°C on several days during July and August.

Period of record:
Water temperatures: Maximum, 21.0°C on several days in 1968 and 1969; minimum (1967-70), 5.0°C on several days in 1969.

REMARKS.--Chemical-quality samples collected 0.2 mile downstream from gaging station. No thermograph record Nov. 30 to Jan. 12, Feb. 8 to Mar. 14, July 29 to Aug. 2, Aug. 31 to Sept. 2, recorder stopped; Mar. 24 to Apr. 29, May 4-9, 14, 30, June 6-29, July 1, recorder malfunction. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
OCT.									
19...	0955	1.2	14	1600	14	4.3	7.8	.4	80
JAN.									
04...	1355	18	15	0	13	3.0	5.5	.7	55
FEB.									
08...	1155	37	15	90	9.0	3.2	5.4	.7	60
MAR.									
14...	1245	30	16	40	9.2	3.0	5.8	.7	53
APR.									
27...	1240	14	16	30	10	3.2	5.8	.6	59
JUNE									
08...	1210	5.0	15	40	12	4.0	6.5	.6	68
JULY									
18...	1425	2.3	16	30	12	4.0	7.5	.8	72

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 NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
OCT.									
19...	0	65	4.0	3.1	.1	.00	.05	89	.12
JAN.									
04...	0	45	3.2	3.4	.1	.00	.06	71	.10
FEB.									
08...	0	49	1.8	1.9	.0	.00	.01	67	.09
MAR.									
14...	0	43	2.0	1.3	.1	.00	.03	64	.09
APR.									
27...	0	48	2.5	2.1	.0	.00	.04	69	.09
JUNE									
08...	0	55	3.0	1.9	.0	.00	.12	77	.10
JULY									
18...	0	59	6.0	2.0	.1	.00	.05	84	.11

DATE	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	DISSOLVED BORON (B) (UG/L)
OCT.										
19...	.31	53	0	24	.5	137	7.6	8.0	--	50
JAN.										
04...	3.55	45	0	21	.4	100	7.8	5.0	--	20
FEB.										
08...	6.80	36	0	24	.4	92	7.5	7.5	--	30
MAR.										
14...	5.29	35	0	26	.4	92	7.8	10.0	--	20
APR.										
27...	2.61	38	0	25	.4	103	7.8	11.5	--	30
JUNE										
08...	1.04	46	0	23	.4	118	7.1	14.0	--	50
JULY										
18...	.52	46	0	26	.5	131	7.7	18.5	1.0	40

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.									
18...	1600	1.3	--	--	--	--	--	--	E250
19...	1000	1.2	--	130	6.4	8.0	11.6	103	--
NOV.									
30...	1315	17	57	100	6.9	7.0	11.8	102	135
JAN.									
04...	1400	18	--	98	7.2	5.0	12.4	102	210
FEB.									
08...	1200	37	--	93	7.2	7.5	11.6	101	13
MAR.									
14...	1300	30	49	96	7.3	10.0	11.0	102	--
APR.									
27...	1245	14	57	136	7.1	11.5	10.6	102	390
JUNE									
08...	1215	5.0	--	102	--	14.0	10.2	104	1100
JULY									
18...	1430	2.3	--	106	--	18.5	9.3	103	3800

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)
JULY									
18...	1425	.00	.0	.00	.00	.00	.00	.00	.00

DATE	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	PARATHION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
JULY									
18...	.00	.00	.00	.00	.00	.00	.00	.00	.00

SUSPENDED-SEDIMENT DISCHARGE MEASUREMENTS,
WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
18...	1700	8.0	1.3	2	.01
NOV.					
30...	1435	7.0	17	2	.09
JAN.					
04...	1500	5.0	18	1	.05
FEB.					
08...	1130	7.5	38	7	.72
MAR.					
14...	1345	10.0	30	2	.16
APR.					
27...	1325	11.5	14	12	.45
JUNE					
08...	1150	14.0	4.9	1	.01
JULY					
18...	1400	18.5	2.3	2	.01

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	10.5	--	9.5	6.5	--	6.5	--	--	--	--	--	--	5.5	--	5.0	--	--	--
2	9.5	--	9.0	6.5	--	6.5	--	--	--	--	--	--	5.5	--	5.0	--	--	--
3	9.5	--	9.0	6.5	--	6.5	--	--	--	--	--	--	6.5	--	5.5	--	--	--
4	10.0	--	9.5	6.5	--	6.5	--	--	--	--	5.0	--	7.5	--	6.5	--	--	--
5	10.5	--	10.0	6.5	--	6.5	--	--	--	--	--	--	8.0	--	7.5	--	--	--
6	10.5	--	10.5	7.0	--	6.5	--	--	--	--	--	--	8.5	--	7.5	--	--	--
7	11.0	--	10.5	7.0	--	7.0	--	--	--	--	--	--	8.5	--	7.0	--	--	--
8	11.0	--	11.0	7.0	--	7.0	--	--	--	--	--	--	--	7.5	--	--	--	--
9	11.0	--	11.0	7.0	--	7.0	--	--	--	--	--	--	--	--	--	--	--	--
10	11.0	--	10.5	7.0	--	7.0	--	--	--	--	--	--	--	--	--	--	--	--
11	10.5	--	10.5	7.0	--	7.0	--	--	--	--	--	--	--	--	--	--	--	--
12	10.5	--	10.5	7.0	--	7.0	--	--	--	--	--	--	--	--	--	--	--	--
13	10.5	--	10.5	7.0	--	7.0	--	--	--	7.5	--	6.0	--	--	--	--	--	--
14	10.5	--	10.5	7.0	--	6.5	--	--	--	6.0	--	5.5	--	--	--	--	10.0	--
15	10.5	--	9.5	6.5	--	6.5	--	--	--	6.0	--	5.5	--	--	--	10.5	--	8.5
16	9.5	--	8.5	6.5	--	6.5	--	--	--	6.0	--	5.5	--	--	--	10.5	--	10.0
17	8.5	--	8.0	6.5	--	6.5	--	--	--	7.0	--	5.5	--	--	--	10.5	--	10.0
18	8.0	--	8.0	6.5	--	6.5	--	--	--	8.0	--	7.0	--	--	--	10.5	--	9.5
19	8.0	--	8.0	7.0	--	6.5	--	--	--	8.5	--	7.5	--	--	--	10.5	--	10.0
20	8.0	--	8.0	7.0	--	7.0	--	--	--	8.5	--	8.0	--	--	--	10.5	--	9.5
21	8.0	--	8.0	7.0	--	7.0	--	--	--	9.0	--	8.5	--	--	--	9.5	--	9.5
22	8.0	--	8.0	7.0	--	7.0	--	--	--	9.0	--	9.0	--	--	--	10.0	--	9.5
23	8.0	--	8.0	7.0	--	7.0	--	--	--	9.0	--	8.5	--	--	--	10.0	--	9.0
24	8.0	--	8.0	7.0	--	7.0	--	--	--	8.5	--	8.0	--	--	--	--	--	--
25	8.0	--	8.0	7.0	--	7.0	--	--	--	8.5	--	7.5	--	--	--	--	--	--
26	8.0	--	8.0	7.0	--	7.0	--	--	--	8.0	--	7.0	--	--	--	--	--	--
27	8.0	--	8.0	7.0	--	7.0	--	--	--	7.0	--	6.0	--	--	--	--	--	--
28	8.0	--	7.5	7.0	--	7.0	--	--	--	6.5	--	6.0	--	--	--	--	--	--
29	7.5	--	6.5	7.0	--	6.5	--	--	--	6.5	--	6.0	--	--	--	--	--	--
30	6.5	--	6.5	--	7.0	--	--	--	--	6.0	--	5.5	--	--	--	--	--	--
31	6.5	--	6.5	--	--	--	--	--	--	5.5	--	5.5	--	--	--	--	--	--
MONTH	11.0	--	6.5	7.0	--	6.5	--	--	--	--	--	--	--	--	--	--	--	--

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

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CALIF.

LOCATION.--Lat 39°52'30", 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 mile upstream from Rock Creek, and 0.5 mile northwest of Leggett.

DRAINAGE AREA.--248 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 25.5°C July 15; minimum, 4.5°C Jan. 7, 8.

Period of record:
Water temperatures: Maximum (1965-69, 1970-72), 26.0°C on several days in 1969; minimum (1965-70, 1971-72), 3.5°C on several days in 1967 and 1968.

REMARKS.--Probe inoperative Oct. 1-17.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

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 mile upstream from Rocky Glen Creek, 4.3 miles southeast of Miranda, and 20 miles upstream from mouth.

DRAINAGE AREA.--537 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1972.
Water temperatures: November 1960 to September 1972.
Sediment records: Water years 1955-62 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 31.0°C July 15.

Period of record:
Water temperatures (1960-64, 1965-72): Maximum (1960-61, 1963-64, 1965-68, 1970-72), 34.0°C July 25, 1964; minimum (1960-64, 1965-70), 1.0°C Jan. 20, 21, 1963.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Thermograph recorder malfunction Jan. 3 to Feb. 3, Feb. 17-27.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	DISSOLVED NITRATE (N) (MG/L)	HARDNESS (CA,MG) (MG/L)
OCT.									
20...	1300	90	--	--	--	--	--	--	--
NOV.									
10...	1445	190	--	--	--	--	--	--	--
DEC.									
14...	1500	1830	--	--	--	--	--	--	--
JAN.									
11...	1430	537	--	--	--	--	--	--	--
FEB.									
08...	1715	2560	--	--	--	--	--	--	--
MAR.									
07...	1515	3440	--	--	--	--	--	--	--
APR.									
11...	1415	1560	--	--	--	--	--	--	--
MAY									
02...	1500	684	--	--	--	--	--	--	--
JUNE									
06...	1415	237	8.0	93	2	80	3.7	.00	83
JULY									
12...	1300	111	8.7	116	0	95	7.6	--	92
AUG.									
02...	1330	73	--	--	--	--	--	--	--
SEP.									
13...	1500	47	9.7	112	0	92	8.9	--	93

DATE	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.							
20...	--	--	--	--	15.5	1	--
NOV.							
10...	--	--	--	--	13.0	41	--
DEC.							
14...	--	--	--	--	7.5	50	--
JAN.							
11...	--	--	--	--	6.0	3	--
FEB.							
08...	--	--	--	--	9.0	19	--
MAR.							
07...	--	--	--	--	13.0	66	--
APR.							
11...	--	--	--	--	12.0	29	--
MAY							
02...	--	--	--	--	17.0	1	--
JUNE							
06...	3	.4	194	8.4	24.0	0	100
JULY							
12...	0	.4	227	7.9	24.0	0	100
AUG.							
02...	--	--	--	--	23.0	0	--
SEP.							
13...	1	.4	225	8.1	22.0	0	200

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
20...	1300	90	257	8.0	15.5	11.9
NOV.						
10...	1445	190	226	7.7	13.0	11.0
DEC.						
14...	1500	1830	129	7.3	7.5	12.1
JAN.						
11...	1430	537	166	7.3	6.0	12.6
FEB.						
08...	1715	2560	121	7.3	9.0	11.5
MAR.						
07...	1515	3440	119	7.4	13.0	11.6
APR.						
11...	1415	1560	134	7.6	12.0	11.2
MAY						
02...	1500	684	157	7.9	17.0	10.2
JUNE						
06...	1415	237	176	8.2	24.0	10.9
JULY						
12...	1300	111	---	8.2	24.0	10.5
AUG.						
02...	1330	73	202	8.2	23.0	12.3
SEP.						
13...	1500	47	205	8.3	22.0	14.2

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	15.0	11.0	9.5	9.0	8.0	7.5	7.0	---	---	12.5	10.0
2	18.0	15.0	11.5	9.5	8.5	8.0	7.5	7.0	---	---	13.0	12.5
3	18.5	15.5	11.5	9.5	8.0	7.5	7.0	6.0	---	---	13.5	13.0
4	19.5	16.5	11.5	9.5	8.0	7.5	---	---	8.0	7.0	13.0	12.0
5	20.0	17.0	12.0	10.5	9.5	8.0	---	---	8.5	7.5	13.0	11.5
6	20.5	18.0	12.0	10.0	9.0	7.5	---	---	9.0	8.5	13.0	11.5
7	20.5	17.5	11.0	10.0	8.0	6.5	---	---	9.5	8.5	13.5	11.5
8	21.0	18.5	10.5	10.0	7.5	6.0	---	---	10.0	9.5	13.0	11.0
9	20.5	18.0	11.0	10.0	8.5	7.5	---	---	10.0	9.0	11.5	11.0
10	18.5	17.0	12.5	11.0	7.5	7.0	---	---	9.5	9.0	12.0	11.5
11	18.5	16.5	13.0	12.0	7.5	7.0	---	---	9.5	8.5	12.5	11.5
12	19.0	16.5	12.0	11.5	8.0	7.0	---	---	9.5	9.0	13.0	11.5
13	18.0	16.0	11.5	10.0	7.5	6.5	---	---	10.0	9.0	14.0	12.5
14	17.0	14.5	10.0	9.5	7.5	7.0	---	---	9.0	8.5	13.5	12.0
15	14.5	13.0	9.5	8.5	7.5	6.5	---	---	10.0	9.0	13.5	12.0
16	13.5	11.0	9.5	8.5	6.5	6.0	---	---	11.0	10.0	15.0	13.0
17	13.0	11.5	10.0	9.0	6.5	6.0	---	---	---	---	15.5	14.0
18	12.5	11.5	10.0	9.0	7.0	6.5	---	---	---	---	15.0	13.5
19	13.0	12.5	10.5	9.0	7.0	7.0	---	---	---	---	14.5	13.0
20	14.5	13.0	11.0	9.5	7.0	6.5	---	---	---	---	14.5	12.5
21	14.0	12.0	10.5	8.5	8.0	7.0	---	---	---	---	14.0	13.0
22	13.5	12.0	11.0	9.0	9.0	8.0	---	---	---	---	13.5	13.0
23	14.0	12.5	11.5	9.5	8.5	8.0	---	---	---	---	13.0	11.0
24	13.5	11.0	12.5	11.0	9.0	8.5	---	---	---	---	12.5	11.0
25	13.5	11.0	11.5	11.0	8.5	8.0	---	---	---	---	11.0	10.0
26	13.0	11.0	11.0	10.5	8.0	7.5	---	---	---	---	11.0	9.0
27	12.5	10.5	11.0	10.0	8.5	8.0	---	---	---	---	11.0	9.0
28	10.5	9.0	10.5	10.0	8.0	7.0	---	---	10.5	9.5	11.5	9.0
29	10.0	8.0	10.5	10.0	8.0	7.5	---	---	10.5	10.0	12.0	9.5
30	9.5	8.5	10.0	9.0	8.0	7.0	---	---	---	---	13.0	10.0
31	11.0	9.0	---	---	7.0	6.5	---	---	---	---	12.5	11.0
MONTH	21.0	8.0	13.0	8.5	9.5	6.0	---	---	---	---	15.5	9.0

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.5	16.0	12.5	26.5	22.0	22.0	19.0	27.0	22.0	25.5	22.0
2	15.5	13.0	17.0	13.5	26.5	21.5	22.5	19.0	26.0	21.5	24.5	22.5
3	16.0	14.0	17.5	14.5	27.0	22.0	22.0	20.0	26.5	21.5	24.5	20.0
4	16.0	14.5	18.0	15.5	27.5	22.0	21.5	19.5	26.5	22.0	25.0	20.5
5	15.5	14.0	18.0	15.5	24.0	20.0	23.0	19.5	27.5	22.0	24.0	21.0
6	14.5	13.5	17.0	15.5	24.0	19.5	24.0	20.5	28.5	23.5	23.5	19.5
7	14.5	13.5	16.0	15.0	24.0	19.5	25.5	21.0	28.5	25.0	23.5	19.0
8	14.5	13.0	16.5	14.5	23.0	20.0	26.0	21.5	28.5	25.0	23.0	19.0
9	14.0	12.0	16.5	14.0	20.0	18.0	25.5	20.5	28.5	24.0	22.5	18.5
10	14.0	12.0	17.5	15.0	19.0	17.5	25.0	21.5	28.5	24.0	22.0	18.0
11	13.5	11.5	18.5	15.0	20.5	17.0	26.0	20.5	27.5	22.5	22.0	17.0
12	11.5	10.5	20.0	16.0	21.5	17.5	27.0	20.0	25.5	21.5	22.5	18.0
13	12.0	9.5	21.0	17.5	22.5	18.5	28.5	23.0	23.0	19.5	22.0	18.0
14	13.5	10.0	21.0	18.0	23.0	19.0	29.0	23.0	23.5	18.5	22.5	20.0
15	14.5	12.0	21.5	17.5	22.5	20.0	31.0	24.0	26.0	20.0	23.5	19.5
16	13.5	12.5	19.5	17.0	22.0	17.5	30.0	26.0	22.5	19.5	21.5	19.0
17	13.0	11.0	17.5	16.0	22.0	18.0	29.5	25.0	24.0	19.5	21.5	19.0
18	13.0	10.5	17.0	14.0	24.0	18.0	29.0	24.5	24.0	19.5	21.0	18.5
19	13.0	11.0	17.0	15.0	25.0	20.0	28.0	23.0	24.0	20.5	21.5	17.0
20	14.0	11.0	16.0	14.5	26.0	21.0	26.0	23.5	25.5	23.0	21.0	16.5
21	14.5	12.0	15.5	14.0	26.0	20.5	27.5	23.0	26.0	22.5	19.5	18.0
22	14.0	12.0	18.5	15.0	25.5	20.0	28.0	23.0	26.0	22.5	20.5	16.0
23	14.0	12.0	18.5	15.5	23.0	20.5	27.0	23.0	25.5	22.5	19.0	15.5
24	13.0	11.5	18.5	15.5	23.5	19.0	26.5	22.0	25.0	21.5	19.0	15.0
25	14.0	11.5	20.5	16.5	24.5	19.0	27.0	22.0	25.5	20.0	16.0	15.0
26	15.5	11.5	21.0	17.5	25.0	19.5	27.0	22.0	26.5	22.5	17.0	16.0
27	16.5	13.5	22.5	18.5	27.0	20.5	27.0	22.0	26.5	21.5	18.0	16.5
28	15.0	13.5	23.0	20.0	28.0	22.5	28.0	22.0	27.0	21.5	18.5	17.0
29	14.0	11.0	25.5	20.5	23.0	20.5	27.0	23.0	26.5	22.5	20.0	17.5
30	15.0	11.5	26.0	20.0	22.5	20.0	27.5	23.5	26.5	21.5	21.5	17.5
31	---	---	27.5	21.5	---	---	27.5	22.5	26.0	20.5	---	---
MONTH	16.5	9.5	27.5	12.5	28.0	17.0	31.0	19.0	28.5	18.5	25.5	15.0

11477000 EEL RIVER AT SCOTIA, CALIF.
(International Hydrological Decade River 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 mile north of Scotia, and 6 miles upstream from Van Duzen River.

DRAINAGE AREA.--3,113 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1972.
Water temperatures: October 1957 to September 1972.
Sediment records: Water years 1955-57 (partial-record station), October 1957 to September 1972.
Turbidity: Water years 1965-68, 1972 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 23.5°C July 15, Aug. 7, 21; minimum, 4.0°C Jan. 4, 5.
Sediment concentrations: Maximum daily, 3,360 mg/l Jan. 23; minimum daily, 2 mg/l on many days.
Sediment discharge: Maximum daily, 1,050,000 tons Jan. 23; minimum daily, 0.48 ton Sept. 23-25.

Period of record:
Water temperatures: Maximum (1960-64, 1965-72), 25.0°C Aug. 21, 22, 1971; minimum, 3.5°C Jan. 13, 14, 1963.
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.
Sediment discharge: Maximum daily, 57,000,000 tons (estimated) Dec. 23, 1964; minimum daily, 0.25 tons Aug. 21, 1970.

REMARKS.--Selected chemical quality samples collected by California Department of Water Resources. No thermograph record Feb. 14 to Mar. 1, recorder stopped. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.										
20...	1115	201	8.4	0	37	12	10	1.0	157	0
NOV.										
10...	1300	2580	8.3	20	28	8.1	7.8	1.3	103	0
16...	1450	1950	--	--	--	--	--	--	--	--
DEC.										
14...	1345	10400	11	30	15	5.1	5.5	1.3	65	0
JAN.										
11...	1300	2140	12	40	27	13	7.8	2.1	128	0
25...	1430	35700	--	--	--	--	--	--	--	--
FEB.										
08...	1530	9950	12	20	21	6.6	5.2	.9	89	0
MAR.										
07...	1315	20300	15	10	16	4.6	4.2	.9	78	0
10...	0900	13400	--	--	--	--	--	--	--	--
APR.										
11...	1215	5140	11	10	18	6.0	5.1	.8	84	0
MAY										
02...	1245	3010	11	20	22	6.3	5.8	.8	105	0
04...	1415	2740	--	--	--	--	--	--	--	--
31...	1430	1220	--	--	--	--	--	--	--	--
JUNE										
06...	1300	886	6.3	10	28	7.5	5.4	1.0	116	1
JULY										
12...	1130	268	9.3	0	35	9.9	8.1	1.4	151	0
AUG.										
02...	1200	174	8.6	20	34	10	9.1	1.4	124	14
SEP.										
13...	1345	104	8.1	10	37	12	9.8	1.6	169	0

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 NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)
OCT.										
20...	129	29	7.9	.1	--	--	--	--	.05	--
NOV.										
10...	84	36	8.2	.1	--	--	--	--	.25	--
16...	--	--	--	--	.26	--	.00	.0	.26	.09
DEC.										
14...	53	13	5.2	.1	.06	--	.00	.0	.06	.03
JAN.										
11...	105	26	7.6	.0	.06	--	.00	.0	.06	.03
25...	--	--	--	--	.12	--	.00	.0	.12	.36
FEB.										
08...	73	15	3.7	.1	--	--	--	--	.07	--
MAR.										
07...	64	7.8	2.0	.1	--	--	--	--	.13	--
10...	--	--	--	--	.03	.10	.00	.0	.03	.24
APR.										
11...	68	9.7	2.3	.2	--	--	--	--	.00	--
MAY										
02...	86	12	2.1	.0	--	--	--	--	.00	--
04...	--	--	--	--	.03	.10	.00	.0	.03	.04
31...	--	--	--	--	.00	.00	.00	.0	.00	.04
JUNE										
06...	96	15	3.9	.0	--	--	--	--	.00	--
JULY										
12...	124	20	7.0	.1	--	--	--	--	.03	--
AUG.										
02...	125	20	5.7	.2	--	--	--	--	.01	--
SEP.										
13...	139	21	6.8	.2	--	--	--	--	.00	--

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS- SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED 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.										
20...	--	--	--	.06	--	183	.25	99.3	140	13
NOV.										
10...	--	--	--	.31	--	150	.20	1050	100	16
16...	.12	.23	.32	.12	.04	--	--	--	--	--
DEC.										
14...	.04	.15	.18	.17	.01	90	.12	2530	58	5
JAN.										
11...	.04	.15	.18	.04	.01	160	.22	924	120	16
25...	.46	.03	.39	1.2	.01	--	--	--	--	--
FEB.										
08...	--	--	--	.14	--	109	.15	2930	80	7
MAR.										
07...	--	--	--	.07	--	90	.12	4930	59	0
10...	.31	.06	.30	.15	.01	--	--	--	--	--
APR.										
11...	--	--	--	.12	--	95	.13	1320	70	1
MAY										
02...	--	--	--	.01	--	112	.15	910	81	0
04...	.05	.10	.14	.03	.00	--	--	--	--	--
31...	.05	.04	.08	.04	.00	--	--	--	--	--
JUNE										
06...	--	--	--	.03	--	126	.17	301	100	4
JULY										
12...	--	--	--	.02	--	165	.22	119	130	4
AUG.										
02...	--	--	--	.03	--	165	.22	77.5	130	1
SEP.										
13...	--	--	--	.03	--	180	.24	50.5	140	3

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)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.							
20...	13	.4	314	8.2	16.5	1	--
NOV.							
10...	14	.3	239	7.4	12.5	200	--
16...	--	--	222	--	10.0	--	6.5
DEC.							
14...	17	.3	140	7.6	7.0	90	2.0
JAN.							
11...	12	.3	275	7.9	7.0	4	2.0
25...	--	--	--	--	7.0	--	1.0
FEB.							
08...	12	.3	184	7.6	11.0	10	--
MAR.							
07...	13	.2	135	7.8	12.0	100	--
10...	--	--	--	--	12.0	--	2.0
APR.							
11...	14	.3	158	7.6	12.0	20	--
MAY							
02...	13	.3	185	6.9	17.0	3	--
04...	--	--	--	--	16.5	--	.0
31...	--	--	--	--	18.0	--	.5
JUNE							
06...	10	.2	224	8.4	20.0	1	--
JULY							
12...	12	.3	277	7.2	23.0	1	--
AUG.							
02...	13	.4	286	8.5	23.0	2	--
SEP.							
13...	13	.4	306	8.1	21.0	1	--

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.					
20...	1115	201	8.1	16.5	15.0
NOV.					
10...	1300	2580	7.4	12.5	10.7
16...	1450	1950	--	10.0	--
DEC.					
14...	1345	10400	7.3	7.0	12.2
JAN.					
11...	1300	2140	7.7	7.0	12.3
25...	1430	35700	--	7.0	--
FEB.					
08...	1530	9950	8.1	11.0	11.0
MAR.					
07...	1315	20300	7.5	12.0	10.7
10...	0900	13400	--	12.0	--
APR.					
11...	1215	5140	7.4	12.0	10.7
MAY					
02...	1245	3010	7.9	17.0	10.5
04...	1415	2740	--	16.5	--
31...	1430	1220	--	18.0	--
JUNE					
06...	1300	886	8.0	20.0	9.6
JULY					
12...	1130	268	8.1	23.0	9.6
AUG.					
02...	1200	174	8.2	23.0	12.3
SEP.					
13...	1345	104	8.2	21.0	11.6

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)
NOV.											
16...	1450	.00	--	.0	--	.00	--	.00	--	.00	--
JAN.											
11...	1300	.00	--	.0	--	.00	--	.00	--	.00	--
25...	1430	.00	--	.0	--	.00	--	.00	--	.00	--
MAR.											
10...	0900	.00	--	.0	--	.00	--	.00	--	.00	--
MAY											
04...	1415	.00	--	.0	--	.00	--	.00	--	.00	--
31...	1430	.00	<.2	.0	<1	.00	<.2	.00	<.2	.00	<.2

DATE	DIAZINON (UG/L)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)
NOV.										
16...	--	.00	--	.00	--	.00	--	.00	--	.00
JAN.										
11...	.00	.00	--	.00	--	.00	--	.00	--	.00
25...	.00	.00	--	.00	--	.00	--	.00	--	.00
MAR.										
10...	.00	.00	--	.00	--	.00	--	.00	--	.00
MAY										
04...	.00	.00	--	.00	--	.00	--	.00	--	.00
31...	.00	.00	<.2	.00	<.2	.00	<.2	.00	<.2	.00

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	PARATHION (UG/L)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
NOV.										
16...	--	--	--	--	.00	--	.00	--	.00	--
JAN.										
11...	--	.00	.00	.00	.00	--	.00	--	.00	--
25...	--	.00	.00	.00	.00	--	.00	--	.00	--
MAR.										
10...	--	.00	.00	.00	.00	--	.00	--	.00	--
MAY										
04...	--	.00	.00	.00	.00	--	.00	--	.00	--
31...	<.2	.00	.00	.00	.00	<1.6	.00	<.5	.00	<.6

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.												
20...	1115	--	130	--	--	--	--	--	20	--	510	--
NOV.												
10...	1300	--	70	--	--	--	--	--	2	--	410	--
16...	1450	2	--	0	0	0	3	2	--	.1	--	10
DEC.												
14...	1345	10	70	1	0	2	1	5	0	.1	280	20
JAN.												
11...	1300	10	80	1	0	2	1	5	0	.1	270	20
25...	1430	2	--	0	0	1	4	0	--	.3	--	8
FEB.												
08...	1530	--	70	--	--	--	--	--	0	--	260	--
MAR.												
07...	1315	--	60	--	--	--	--	--	0	--	200	--
10...	0900	5	--	1	0	0	2	0	--	1.4	--	20
APR.												
11...	1215	--	60	--	--	--	--	--	0	--	240	--
MAY												
02...	1245	--	70	--	--	--	--	--	0	--	300	--
04...	1415	4	--	0	0	1	2	2	--	.8	--	20
31...	1430	0	--	0	0	0	6	1	--	.2	--	8
JUNE												
06...	1300	--	120	--	--	--	--	--	0	--	350	--
JULY												
12...	1130	--	110	--	--	--	--	--	0	--	130	--
AUG.												
02...	1200	--	140	--	--	--	--	--	10	--	430	--
SEP.												
13...	1345	--	130	--	--	--	--	--	0	--	380	--

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	12.5	12.0	16.0	14.0	19.0	16.5	22.5	19.0	20.5	19.0	21.5	18.5
2	14.5	12.5	17.0	15.0	19.0	17.5	22.0	19.0	21.0	18.5	20.5	18.5
3	14.5	12.0	18.0	16.5	18.0	16.5	--	--	21.0	18.5	21.5	18.5
4	13.5	12.5	17.5	16.0	19.0	16.0	21.5	19.5	20.5	18.0	21.0	19.5
5	13.0	12.5	16.0	15.5	19.5	17.5	20.5	19.5	22.5	18.0	21.0	19.5
6	12.5	12.0	17.0	15.5	20.0	18.5	21.0	18.5	23.0	19.5	21.0	18.5
7	12.0	11.5	17.0	15.5	20.0	18.5	21.5	18.5	23.5	20.0	21.0	18.0
8	11.5	11.0	16.0	15.0	21.0	18.5	21.0	18.0	23.0	19.5	21.0	18.0
9	11.0	10.5	16.0	15.0	19.5	17.5	21.5	18.0	22.5	20.0	21.0	19.0
10	11.5	10.5	16.5	14.0	18.0	17.0	21.5	17.5	22.5	19.5	20.0	17.5
11	11.5	11.0	17.5	15.0	18.5	16.5	21.5	18.0	22.0	19.0	19.5	16.5
12	11.0	9.5	18.5	16.0	19.5	16.5	22.5	18.5	21.5	18.5	20.5	17.5
13	9.5	9.0	19.5	17.0	20.0	17.0	23.0	19.5	21.0	18.0	20.5	17.5
14	10.5	9.0	19.0	17.5	20.5	18.0	22.5	19.5	20.0	18.5	20.0	17.0
15	12.5	11.0	19.5	17.5	19.0	17.0	23.5	19.5	20.0	19.5	19.5	17.5
16	12.0	11.5	19.0	18.0	19.0	16.5	23.0	20.0	19.5	18.0	18.5	17.0
17	12.0	11.5	18.0	16.0	20.0	16.5	22.0	20.0	21.0	17.0	20.0	18.0
18	11.5	10.5	16.0	15.0	20.5	17.0	21.5	20.0	21.0	18.0	20.0	18.0
19	12.5	11.0	17.5	15.0	21.0	18.5	22.0	19.0	21.5	18.5	20.0	17.5
20	13.5	12.0	16.5	15.0	21.5	19.0	22.0	19.0	23.0	19.5	19.0	16.5
21	14.0	13.0	15.0	14.5	21.0	19.0	21.0	19.5	23.5	20.5	18.5	16.5
22	14.5	13.0	17.0	14.5	21.0	18.5	21.5	19.0	22.5	20.0	19.0	17.0
23	14.5	13.5	17.0	15.0	19.5	17.5	21.0	19.5	22.5	20.0	18.0	16.0
24	14.0	13.0	17.5	15.0	19.5	17.0	20.0	18.5	21.5	19.0	18.0	15.5
25	14.0	13.0	18.0	15.0	20.0	17.0	21.5	18.0	22.0	18.5	17.0	15.0
26	15.0	13.0	19.0	16.5	20.5	17.0	21.0	19.0	22.5	18.0	16.5	16.0
27	15.0	14.0	19.5	17.0	21.5	18.0	22.0	19.0	22.5	19.0	16.5	15.5
28	16.0	15.0	20.0	17.5	22.0	18.5	22.0	19.0	21.5	19.0	17.5	15.5
29	15.0	13.5	20.0	18.0	21.5	19.0	21.5	19.0	22.0	19.5	18.5	16.0
30	15.5	13.5	19.5	17.5	22.0	19.0	21.0	18.5	22.5	19.5	19.0	17.0
31	--	--	18.5	16.5	--	--	21.5	19.5	22.0	18.0	--	--
MONTH	16.0	9.0	20.0	14.0	22.0	16.0	23.5	17.5	23.5	17.0	21.5	15.0

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	290	5	3.9	214	2	1.2	5130	213	2950
2	270	4	2.9	219	2	1.2	4880	255	3510
3	257	4	2.8	219	2	1.2	6530	362	6510
4	243	4	2.6	221	2	1.2	6580	315	5600
5	233	4	2.5	220	2	1.2	5900	230	3660
6	222	3	1.8	217	2	1.2	9160	468	12500
7	212	3	1.7	215	2	1.2	10300	622	18000
8	205	3	1.7	210	2	1.1	6250	215	3630
9	198	3	1.6	442	44	110	5250	126	1790
10	194	3	1.6	2360	308	2000	8980	236	6010
11	190	4	2.1	1520	150	616	9280	218	5460
12	185	4	2.0	2090	140	790	14200	687	29500
13	180	4	1.9	5070	302	4440	17400	823	40200
14	177	3	1.4	5270	424	6010	11000	300	8910
15	180	3	1.5	3280	240	2130	9370	225	5690
16	178	2	.96	2050	110	609	7420	165	3310
17	177	2	.96	1440	45	175	5680	95	1460
18	172	2	.93	1100	25	74	4880	60	791
19	180	2	.97	900	22	53	4500	58	705
20	203	2	1.1	774	20	42	4080	55	606
21	235	2	1.3	696	20	38	3800	60	616
22	231	2	1.2	633	20	34	16700	1100	73500
23	227	2	1.2	584	20	32	35200	1720	170000
24	234	2	1.3	584	20	32	25600	895	63300
25	245	2	1.3	626	20	34	29500	984	80500
26	252	2	1.4	1190	77	509	16600	460	20600
27	244	2	1.3	6080	794	13700	11600	340	10600
28	233	2	1.3	7270	521	10300	9010	260	6330
29	224	2	1.2	10600	536	15400	7180	205	3970
30	217	3	1.8	8280	300	6710	5890	163	2590
31	216	3	1.7	--	--	--	4900	120	1590
TOTAL	6704	--	51.92	64574	--	63847.5	322750	--	594388

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	4350	60	705	9220	293	7290	44100	1030	123000
2	4110	50	555	8140	258	5670	36600	860	85000
3	3910	46	486	7420	242	4850	61200	1460	243000
4	3670	42	416	8590	273	6330	50000	1120	151000
5	3310	38	340	16600	527	23600	35500	800	76700
6	2980	32	257	15800	382	16300	26600	650	46700
7	2760	27	201	15000	292	11800	20600	560	31100
8	2590	21	147	10600	252	7210	17100	480	22200
9	2470	16	107	8980	220	5330	14700	430	17100
10	2290	13	80	8050	195	4240	13400	400	14500
11	2160	11	64	7240	178	3480	14700	400	15900
12	2210	12	72	6580	160	2840	14200	310	11900
13	2190	13	77	5950	150	2410	12600	203	6910
14	2120	11	63	5680	137	2100	11700	162	5120
15	2050	8	44	5500	128	1900	10400	142	3990
16	1960	6	32	5200	118	1660	9220	124	3090
17	1900	5	26	4880	110	1450	8680	114	2670
18	1900	5	26	4630	102	1280	8110	107	2340
19	2070	5	28	4480	100	1210	7330	102	2020
20	3360	150	1360	5680	110	1690	6610	97	1730
21	18900	1390	91000	6400	185	3200	6070	95	1560
22	56700	2510	380000	11500	340	10600	7390	120	2390
23	113000	3360	1050000	29700	902	73600	13900	453	17700
24	55500	1770	265000	49500	1450	194000	11700	384	12300
25	35400	1050	100000	45000	1070	130000	21800	617	36600
26	28200	655	49900	66900	1720	322000	17600	440	20900
27	21000	548	31100	54300	1170	172000	12400	260	8700
28	16700	475	21400	52000	1060	149000	10100	190	5180
29	13300	419	15000	76700	1770	372000	9280	148	3710
30	11300	373	11400	--	--	--	8470	110	2520
31	10000	330	8910	--	--	--	7690	73	1520
TOTAL	434360	--	2028796	556220	--	1539040	549750	--	979050

	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	5980	55	888	3230	20	174	1200	4	13
2	5410	50	730	3030	18	147	1120	4	12
3	5260	50	710	2850	16	123	1040	4	11
4	4990	49	660	2740	14	104	982	4	11
5	4990	55	741	2650	14	100	922	4	10
6	7270	140	3000	2610	14	99	886	4	9.6
7	9430	267	6860	2550	12	83	840	4	9.1
8	7930	139	2980	2550	12	83	934	4	10
9	6670	98	1760	2490	12	81	994	4	11
10	5680	75	1150	2430	11	72	994	4	11
11	5410	58	847	2210	10	60	970	3	7.9
12	14800	206	10000	2080	9	51	886	3	7.2
13	23900	269	17300	2010	8	43	820	3	6.6
14	21600	247	14400	1920	8	41	770	3	6.2
15	17900	218	10500	1850	7	35	740	3	6.0
16	12700	155	5310	1850	12	60	690	3	5.6
17	9460	106	2710	1940	8	42	660	3	5.3
18	8110	82	1800	1940	5	26	641	3	5.2
19	7450	64	1290	1820	6	29	623	3	5.0
20	6610	50	892	1690	6	27	596	4	6.4
21	5770	38	592	1830	6	30	560	4	6.0
22	5020	35	474	1940	8	42	533	4	5.8
23	4650	33	414	1790	9	43	515	4	5.6
24	5200	42	590	1530	8	33	506	6	8.2
25	5560	36	540	1450	8	31	515	5	7.0
26	4830	30	391	1390	6	23	506	4	5.5
27	4300	24	279	1330	7	25	479	3	3.9
28	3890	22	231	1310	6	21	454	5	6.1
29	3580	22	213	1300	6	21	422	5	5.7
30	3400	20	184	1260	5	17	414	4	4.5
31	--	--	--	1220	5	16	--	--	--
TOTAL	237750	--	88436	62790	--	1782	22212	--	227.4

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	398	4	4.3	186	4	2.0	104	4	1.1
2	382	4	4.1	174	4	1.9	101	4	1.1
3	366	4	4.0	168	4	1.8	101	4	1.1
4	350	4	3.8	162	4	1.7	101	4	1.1
5	334	4	3.6	162	4	1.7	98	3	.79
6	326	4	3.5	162	4	1.7	98	3	.79
7	318	4	3.4	150	4	1.6	98	3	.79
8	310	4	3.3	144	4	1.6	101	3	.82
9	295	4	3.2	138	4	1.5	101	3	.82
10	275	4	3.0	126	4	1.4	101	3	.82
11	275	4	3.0	120	4	1.3	101	3	.82
12	268	4	2.9	117	4	1.3	101	2	.55
13	261	4	2.8	110	4	1.2	104	2	.56
14	261	4	2.8	110	4	1.2	107	2	.58
15	254	4	2.7	110	4	1.2	107	2	.58
16	240	4	2.6	110	4	1.2	98	2	.53
17	236	4	2.5	117	4	1.3	132	2	.71
18	228	4	2.5	120	4	1.3	186	3	1.5
19	222	4	2.4	132	4	1.4	150	3	1.2
20	216	4	2.3	138	4	1.5	110	2	.59
21	216	4	2.3	138	4	1.5	101	2	.55
22	216	4	2.3	138	4	1.5	94	2	.51
23	210	4	2.3	138	4	1.5	88	2	.48
24	210	4	2.3	132	4	1.4	88	2	.48
25	204	4	2.2	132	4	1.4	88	2	.48
26	204	4	2.2	126	3	1.0	126	8	2.7
27	204	4	2.2	120	2	.65	596	24	39
28	198	4	2.1	114	7	2.2	898	55	133
29	198	4	2.1	114	5	1.5	1450	220	861
30	198	4	2.1	110	5	1.5	922	50	124
31	192	4	2.1	104	5	1.4	--	--	--
TOTAL	8065	--	86.9	4122	--	45.35	6651	--	1179.05

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 2275948
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 5296930.12

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.										
12...	0935	6.0	13300	478	17200	35	43	52	61	69
12...	1600	6.0	16600	1010	45300	27	34	47	58	67
13...	1620	6.0	16500	624	27800	31	40	52	63	72
23...	1000	6.5	36600	1740	172000	27	35	49	58	74
JAN.										
21...	1130	7.5	12100	1200	39200	8	14	21	28	33
22...	1145	8.0	52600	2230	317000	9	16	27	39	46
25...	0930	7.0	35700	1100	106000	12	26	35	46	58
26...	0920	6.0	29300	657	52000	11	24	38	53	66
FEB.										
05...	1030	6.5	16800	578	26200	19	26	35	44	50
24...	1715	8.0	50900	1630	224000	22	26	38	46	66
25...	0920	7.5	48700	1100	145000	23	33	44	56	66
26...	1105	9.0	74400	2120	426000	21	25	37	50	66
26...	1605	10.5	75200	2120	430000	22	25	39	50	68
29...	1100	10.5	85000	1990	457000	19	27	39	52	65
MAR.										
01...	1305	8.5	47100	972	124000	22	33	44	54	61
02...	1415	9.5	42700	846	97500	26	28	43	54	68
03...	1500	9.5	66400	1710	307000	21	31	44	58	72
APR.										
03...	1650	14.5	5680	43	659	--	--	--	--	--
15...	0920	11.5	18700	231	11700	--	--	--	--	--

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.										
12...	--	79	--	85	--	99	--	100	--	--
12...	--	75	--	80	--	96	--	100	--	--
13...	--	81	--	87	--	96	--	100	--	--
23...	83	--	92	--	99	--	100	--	--	--
JAN.										
21...	--	51	--	62	--	98	--	100	--	--
22...	--	74	--	82	--	99	--	100	--	--
25...	--	74	--	86	--	100	--	--	--	--
26...	--	80	--	88	--	100	--	--	--	--
FEB.										
05...	--	63	--	75	--	97	--	100	--	--
24...	78	--	91	--	99	--	100	--	--	--
25...	--	85	--	90	--	96	--	99	99	100
26...	80	--	93	--	99	--	100	--	--	--
26...	81	--	94	--	100	--	--	--	--	--
29...	78	--	92	--	99	--	100	--	--	--
MAR.										
01...	--	82	--	94	--	100	--	--	--	--
02...	80	--	91	--	100	--	--	--	--	--
03...	85	--	94	--	100	--	--	--	--	--
APR.										
03...	--	61	--	69	--	84	--	100	--	--
15...	--	49	--	53	--	69	--	97	100	--

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)	DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
Dec. 26, 1971.	--	434	350	Mar. 29.....	--	140	35
Dec. 30.....	--	164	30	Mar. 31.....	--	70	25
Dec. 31.....	--	99	25	Apr. 2.....	--	50	20
Jan. 1, 1972..	0945	63	15	Apr. 3.....	--	43	15
Jan. 1.....	1455	55	20	Apr. 5.....	--	57	20
Jan. 2.....	--	53	15	Apr. 6.....	--	164	35
Jan. 3.....	--	46	15	Apr. 7.....	--	307	75
Jan. 4.....	--	42	10	Apr. 8.....	--	150	60
Jan. 6.....	1030	32	10	Apr. 11.....	--	56	20
Jan. 6.....	1330	36	10	Apr. 15.....	--	231	65
Jan. 7.....	1055	20	9	Apr. 17.....	--	100	35
Jan. 7.....	1425	24	7	Apr. 21.....	--	38	15
Jan. 7.....	1625	25	9	Apr. 24.....	--	42	20
Jan. 8.....	1115	18	8	Apr. 27.....	--	24	10
Jan. 8.....	1310	16	8	May 4.....	--	14	6
Jan. 8.....	1600	21	9				
Jan. 9.....	1000	14	8	May 5.....	--	14	6
Jan. 9.....	1655	14	6	May 9.....	--	12	6
Jan. 11.....	--	10	4	May 15.....	--	8	4
Jan. 13.....	--	14	8	May 16.....	--	12	5
				May 18.....	--	5	4
Jan. 15.....	--	8	5				
Jan. 16.....	--	6	4	May 23.....	--	9	2
Jan. 17.....	--	4	4	May 25.....	--	8	4
Jan. 18.....	--	6	4	May 26.....	--	6	3
Jan. 22.....	--	2230	500	May 27.....	--	7	4
				May 28.....	--	2	3
Jan. 25.....	--	1100	650				
Jan. 26.....	--	657	490	June 2.....	--	4	2
Jan. 28.....	--	350	480	June 16.....	--	3	2
Feb. 2.....	--	256	35	June 21.....	--	4	2
Feb. 5.....	--	578	90	June 23.....	--	4	3
				June 24.....	--	6	4
Feb. 24.....	--	1630	30				
Feb. 25.....	--	1110	45	June 25.....	--	5	3
Feb. 26.....	--	2120	20	June 26.....	--	4	3
Feb. 28.....	--	971	180	June 27.....	--	3	3
Feb. 29.....	--	1990	250	June 28.....	--	5	2
				June 29.....	--	5	3
Mar. 1.....	--	972	65				
Mar. 2.....	--	846	70	June 30.....	--	4	6
Mar. 3.....	--	1710	250	July 23.....	--	4	2
Mar. 11.....	--	422	95	Aug. 25.....	--	4	3
Mar. 13.....	--	184	75	Aug. 26.....	--	3	2
				Aug. 27.....	--	2	4
Mar. 16.....	--	126	50				
Mar. 19.....	--	101	35	Aug. 28.....	--	7	2
Mar. 20.....	--	98	35	Sept. 15.....	--	2	2
Mar. 23.....	--	538	110	Sept. 27.....	--	21	7

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 upstream from private road bridge, 0.3 mile upstream from South Fork, and 2.8 miles west of Dinsmores.
DRAINAGE AREA.--85.1 sq mi.
PERIOD OF RECORD.--Water temperatures: October 1965 to September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 25.5°C July 16; minimum, 1.0°C Jan. 4.
Period of record:
Water temperatures: Maximum, 25.5°C Aug. 11, 1971, July 16, 1972; minimum (1965-68, 1969-72), freezing point on several days in 1965-68.
REMARKS.--Recorder malfunction Oct. 1-12, Nov. 12-30, Jan. 5 to Feb. 23, June 4 to July 11, Sept. 15-30. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	--	--	--	10.0	--	7.5	8.0	--	6.5	5.0	--	2.5	--	--	--	6.0	--	5.5
2	--	--	--	10.0	--	7.0	7.0	--	5.0	5.0	--	2.5	--	--	--	7.5	--	6.0
3	--	--	--	9.0	--	6.5	6.0	--	4.0	3.0	--	2.0	--	--	--	8.0	--	6.5
4	--	--	--	10.0	--	7.0	7.0	--	5.0	4.0	--	1.0	--	--	--	9.0	--	7.0
5	--	--	--	10.0	--	8.0	7.0	--	5.0	--	3.0	--	--	--	--	10.0	--	6.0
6	--	--	--	9.0	--	6.5	7.0	--	5.0	--	--	--	--	--	--	10.5	--	6.0
7	--	--	--	9.5	--	7.5	6.5	--	4.0	--	--	--	--	--	--	11.0	--	7.0
8	--	--	--	9.5	--	7.5	6.5	--	5.0	--	--	--	--	--	--	11.5	--	6.5
9	--	--	--	9.0	--	8.0	7.0	--	4.5	--	--	--	--	6.5	--	8.5	--	7.5
10	--	--	--	11.5	--	8.5	5.0	--	3.5	--	--	--	--	--	--	9.0	--	7.0
11	--	--	--	10.5	--	8.5	6.0	--	4.0	--	--	--	--	--	--	9.0	--	7.5
12	--	--	--	--	--	--	6.0	--	3.0	--	--	--	--	--	--	9.5	--	8.0
13	17.0	--	15.0	--	--	--	7.0	--	3.0	--	--	--	--	--	--	12.0	--	8.0
14	16.5	--	13.5	--	--	--	6.0	--	4.0	--	--	--	--	--	--	12.0	--	7.0
15	14.5	--	12.0	--	--	--	6.5	--	4.0	--	--	--	--	--	--	13.0	--	7.5
16	13.0	--	10.5	--	--	--	6.0	--	2.5	--	--	--	--	--	--	14.0	--	8.5
17	12.0	--	9.0	--	--	--	5.5	--	2.5	--	--	--	--	--	--	14.0	--	8.5
18	12.0	--	10.0	--	--	--	5.5	--	3.0	--	--	--	--	--	--	13.5	--	9.0
19	12.5	--	11.0	--	--	--	5.5	--	2.5	--	--	--	--	--	--	12.0	--	7.0
20	12.5	--	11.0	--	--	--	6.0	--	2.5	--	--	--	--	--	--	13.0	--	7.0
21	12.0	--	9.5	--	--	--	4.5	--	2.5	--	--	--	--	--	--	11.0	--	8.0
22	11.5	--	10.0	--	--	--	5.0	--	3.5	--	--	--	--	--	--	10.0	--	8.0
23	12.0	--	10.0	--	--	--	4.5	--	4.0	--	--	--	--	--	--	11.0	--	7.0
24	11.5	--	8.5	--	--	--	5.0	--	4.0	--	--	--	5.0	--	4.5	8.0	--	7.0
25	11.0	--	8.5	--	--	--	5.5	--	4.0	--	--	--	5.5	--	5.0	7.5	--	5.5
26	11.0	--	9.5	--	--	--	5.5	--	4.5	--	--	--	6.5	--	5.0	9.0	--	4.5
27	10.5	--	8.0	--	--	--	5.5	--	4.0	--	--	--	7.0	--	6.5	7.5	--	5.0
28	9.0	--	6.5	--	--	--	5.0	--	3.5	--	--	--	7.0	--	6.5	10.0	--	6.5
29	9.0	--	6.0	--	--	--	5.0	--	3.5	--	--	--	6.5	--	5.5	11.5	--	5.5
30	9.0	--	8.0	--	8.0	--	5.0	--	3.0	--	--	--	--	--	--	11.0	--	6.5
31	10.0	--	7.0	--	--	--	5.0	--	2.5	--	--	--	--	--	--	8.5	--	6.0
MONTH	--	--	--	--	--	--	8.0	--	2.5	--	--	--	--	--	--	14.0	--	4.5

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	9.0	--	7.0	16.5	--	9.0	21.0	--	15.5	--	--	--	21.5	--	18.5	19.5	--	17.0
2	14.5	--	8.5	17.0	--	9.5	20.5	--	15.5	--	--	--	20.5	--	17.5	19.0	--	17.0
3	13.5	--	8.5	17.5	--	10.5	19.5	--	15.0	--	--	--	21.0	--	18.0	19.0	--	17.0
4	13.5	--	9.0	18.5	--	11.0	--	--	--	--	--	--	21.5	--	18.5	19.0	--	17.0
5	10.5	--	8.5	18.5	--	12.0	--	--	--	--	--	--	21.5	--	19.0	19.0	--	16.5
6	9.0	--	7.5	17.5	--	10.5	--	--	--	--	--	--	22.0	--	19.5	18.0	--	16.0
7	10.5	--	7.0	14.0	--	11.0	--	--	--	--	--	--	22.0	--	19.5	18.0	--	15.0
8	8.5	--	6.0	15.5	--	10.5	--	--	--	--	--	--	22.0	--	20.0	17.5	--	15.0
9	9.0	--	7.0	16.0	--	11.0	--	--	--	--	--	--	22.5	--	20.5	17.5	--	15.0
10	11.0	--	7.0	17.5	--	11.0	--	--	--	--	--	--	22.0	--	20.0	16.5	--	14.0
11	8.0	--	6.5	18.0	--	11.0	--	--	--	--	--	--	22.0	--	19.5	16.0	--	13.5
12	6.5	--	6.0	19.5	--	12.0	--	--	--	23.5	--	19.0	21.0	--	19.0	16.5	--	13.0
13	10.0	--	5.0	20.5	--	13.5	--	--	--	23.5	--	19.0	20.0	--	17.5	16.5	--	13.5
14	11.5	--	6.0	20.5	--	14.5	--	--	--	24.0	--	20.5	19.5	--	17.0	16.5	--	14.0
15	11.5	--	6.5	20.0	--	14.0	--	--	--	25.0	--	21.5	18.5	--	16.5	--	14.5	--
16	10.0	--	8.0	15.0	--	14.0	--	--	--	25.5	--	22.0	17.5	--	16.5	--	--	--
17	10.5	--	7.0	15.0	--	12.5	--	--	--	25.0	--	22.0	18.0	--	15.0	--	--	--
18	11.5	--	6.5	15.5	--	11.0	--	--	--	25.0	--	21.5	18.5	--	16.0	--	--	--
19	12.0	--	7.0	15.5	--	12.0	--	--	--	24.0	--	20.0	19.0	--	16.5	--	--	--
20	13.5	--	7.0	14.0	--	11.5	--	--	--	23.5	--	20.0	20.5	--	17.0	--	--	--
21	14.0	--	8.0	11.5	--	11.0	--	--	--	23.5	--	19.0	21.0	--	17.5	--	--	--
22	14.0	--	8.0	17.5	--	10.5	--	--	--	23.0	--	19.0	20.5	--	17.0	--	--	--
23	11.5	--	8.5	17.0	--	12.5	--	--	--	23.0	--	19.5	20.5	--	17.0	--	--	--
24	10.0	--	8.0	18.5	--	12.0	--	--	--	23.0	--	19.5	20.5	--	17.0	--	--	--
25	13.5	--	7.0	19.0	--	12.5	--	--	--	22.5	--	18.5	20.5	--	17.5	--	--	--
26	15.5	--	8.0	20.5	--	14.0	--	--	--	22.5	--	19.0	20.5	--	18.0	--	--	--
27	16.0	--	9.0	21.0	--	15.0	--	--	--	21.5	--	18.5	20.5	--	18.0	--	--	--
28	12.0	--	9.0	21.5	--	15.5	--	--	--	21.5	--	18.0	21.0	--	18.0	--	--	--
29	13.5	--	6.5	20.5	--	16.0	--	--	--	21.5	--	18.5	21.5	--	18.0	--	--	--
30	15.5	--	7.5	21.0	--	16.0	--	--	--	22.0	--	19.0	20.0	--	17.5	--	--	--
31	--	--	--	20.0	--	16.0	--	--	--	21.0	--	18.0	19.0	--	17.0	--	--	--
MONTH	16.0	--	5.0	21.5	--	9.0	--	--	--	--	--	--	22.5	--	15.0	--	--	--

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 mile upstream from Grizzly Creek, and 5 miles west of Bridgeville.

DRAINAGE AREA.--222 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), October 1958 to September 1972.
Water temperatures: December 1960 to September 1972.
Sediment records: Water years 1955-67 (partial-record station).
Turbidity: Water years 1964-67 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 28.0°C July 15; minimum, 2.5°C Jan. 4, 5.

Period of record:
Water temperatures (1960-64, 1965-72): Maximum, 29.5°C July 1, 2, 1967; minimum, 0.5°C Dec. 18-20, 23, 1965.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	NONCARBONATE HARDNESS (MG/L)
OCT.									
20...	1030	28	--	--	--	--	--	--	--
NOV.									
10...	1150	1210	4.8	57	0	47	4.3	65	18
DEC.									
14...	1230	1740	4.2	57	0	47	1.7	53	6
JAN.									
11...	1215	349	--	--	--	--	--	--	--
FEB.									
08...	1445	1000	2.7	58	0	48	.8	50	2
MAR.									
07...	1230	1670	3.0	56	0	46	.9	48	2
APR.									
11...	1115	1030	--	--	--	--	--	--	--
MAY									
02...	1130	353	3.9	73	0	60	1.9	63	3
JUNE									
06...	1200	101	--	--	--	--	--	--	--
JULY									
12...	1050	31	--	--	--	--	--	--	--
AUG.									
02...	1120	16	--	--	--	--	--	--	--
SEP.									
13...	1300	9.7	--	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.						
20...	--	--	--	14.0	0	--
NOV.						
10...	.3	150	7.2	10.5	--	100
DEC.						
14...	.3	125	7.5	6.0	--	100
JAN.						
11...	--	--	--	5.5	4	--
FEB.						
08...	.2	112	7.4	7.0	--	0
MAR.						
07...	.2	107	7.6	9.0	62	0
APR.						
11...	--	--	--	9.0	17	--
MAY						
02...	.2	139	7.7	15.0	2	100
JUNE						
06...	--	--	--	20.0	0	--
JULY						
12...	--	--	--	19.0	0	--
AUG.						
02...	--	--	--	18.5	0	--
SEP.						
13...	--	--	--	19.0	0	--

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
20...	1030	28	253	8.0	14.0	11.3
NOV.						
10...	1150	1210	149	7.3	10.5	11.0
DEC.						
14...	1230	1740	129	7.3	6.0	12.4
JAN.						
11...	1215	349	149	7.3	5.5	12.6
FEB.						
08...	1445	1000	109	7.3	7.0	12.1
MAR.						
07...	1230	1670	106	7.4	9.0	11.0
APR.						
11...	1115	1030	114	7.4	9.0	11.7
MAY						
02...	1130	353	136	7.7	15.0	10.4
JUNE						
06...	1200	101	174	8.0	20.0	9.1
JULY						
12...	1050	31	217	7.9	19.0	9.3
AUG.						
02...	1120	16	276	7.9	18.5	9.0
SEP.						
13...	1300	9.7	261	7.8	19.0	9.7

TEMPERATURE (°C) OF WATER. WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	11.0	11.5	7.0	8.0	7.0	6.0	5.0	4.0	3.5	7.5	7.0
2	18.5	12.5	12.0	8.5	8.5	6.5	5.5	4.5	4.0	3.5	9.0	7.0
3	19.5	14.0	12.0	7.5	7.0	6.5	4.5	3.0	5.5	4.0	9.5	8.5
4	21.0	15.0	12.5	9.0	7.5	6.5	4.0	2.5	6.5	5.5	10.0	9.0
5	21.0	14.5	13.0	10.0	9.0	7.5	4.5	2.5	7.0	5.5	10.0	9.0
6	20.0	15.5	12.0	7.5	9.0	7.5	5.0	3.0	7.5	7.0	11.0	9.0
7	21.5	15.5	12.0	8.5	7.5	5.5	6.0	4.5	7.5	6.0	11.5	9.5
8	21.5	15.5	10.5	7.5	7.5	5.5	6.0	4.0	7.5	6.5	11.5	10.0
9	20.0	16.5	10.5	8.5	8.0	7.0	6.5	5.0	7.5	5.5	11.5	10.5
10	17.0	16.0	11.0	10.0	7.0	5.5	6.0	4.5	7.5	6.0	10.5	10.0
11	19.5	15.5	11.5	10.5	6.0	5.0	5.5	4.5	8.0	6.5	10.5	9.5
12	19.5	15.0	10.5	9.5	6.0	5.5	6.5	5.5	7.5	6.5	11.5	10.5
13	18.0	15.5	9.5	7.5	6.0	5.0	7.0	6.0	8.0	7.5	12.5	11.0
14	17.0	14.0	8.5	7.0	6.5	5.5	6.0	4.0	8.0	7.5	12.0	10.0
15	14.5	12.5	7.5	6.0	6.0	5.0	5.5	3.5	8.0	7.0	12.0	10.5
16	14.5	10.5	7.5	5.5	5.5	4.0	6.5	4.0	9.0	7.5	14.0	9.0
17	14.0	9.5	8.0	6.0	6.0	4.5	7.0	4.5	9.0	7.5	14.0	12.5
18	14.5	10.0	8.5	6.5	6.0	5.0	8.0	6.5	9.5	8.0	14.0	12.0
19	13.5	12.5	8.5	5.5	6.0	4.5	8.0	7.5	9.5	8.5	12.5	11.0
20	16.5	12.5	9.0	7.0	5.5	4.5	8.0	8.0	9.5	8.5	13.5	11.0
21	15.0	11.0	10.0	8.0	6.5	4.5	8.5	8.0	9.0	7.5	12.5	11.0
22	14.5	11.0	11.5	9.0	7.0	6.5	8.5	8.5	8.0	5.5	11.5	9.5
23	14.5	12.0	10.5	9.0	6.5	6.0	8.5	7.0	7.0	6.0	11.0	8.5
24	14.0	10.5	11.0	9.5	7.0	6.0	7.0	6.0	6.5	6.5	10.0	9.0
25	14.0	9.5	10.0	8.5	6.0	5.5	7.0	5.0	7.5	6.0	9.0	8.0
26	12.0	10.5	10.0	9.0	6.0	5.5	5.0	4.0	8.0	7.0	8.0	6.0
27	12.0	9.0	9.5	9.0	6.0	5.0	4.0	3.0	9.0	8.0	9.0	6.5
28	11.0	7.0	9.0	8.5	5.5	4.0	4.5	3.5	8.5	8.5	10.0	7.5
29	10.5	5.5	9.0	8.5	6.0	5.0	4.0	3.0	8.5	7.5	10.0	7.5
30	9.5	8.0	8.5	7.5	6.0	5.0	4.0	3.0	---	---	11.5	9.0
31	11.5	8.0	---	---	6.0	5.0	4.0	3.5	---	---	10.5	10.0
MONTH	21.5	5.5	13.0	5.5	9.0	4.0	8.5	2.5	9.5	3.5	14.0	6.0

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.0	17.0	10.5	22.5	16.0	26.5	18.5	23.0	19.0	22.0	17.0
2	13.5	10.5	18.0	11.5	21.0	16.5	26.0	18.5	22.5	18.5	21.0	18.0
3	14.5	12.5	19.0	12.5	18.0	16.5	26.0	19.0	23.0	18.0	22.0	17.0
4	15.5	12.5	15.0	13.5	23.0	15.5	26.0	19.0	23.0	18.5	22.0	17.5
5	13.0	12.0	15.5	13.5	23.5	17.0	25.0	19.0	25.5	18.5	19.0	17.5
6	12.0	10.5	18.0	13.5	24.0	17.5	22.5	18.5	26.5	19.5	21.0	17.5
7	11.0	9.5	16.0	13.0	24.0	17.5	25.0	18.0	26.0	20.0	21.5	17.5
8	11.0	9.5	17.5	12.0	24.5	18.0	25.0	18.0	25.5	20.5	21.5	17.5
9	11.0	8.0	17.0	12.5	20.5	16.5	25.0	18.0	24.5	20.0	20.5	18.0
10	11.5	8.5	19.0	13.0	18.5	14.5	25.0	17.5	25.0	19.5	20.0	17.0
11	10.0	8.5	20.0	14.0	21.0	14.0	24.5	18.5	24.0	19.5	20.0	16.0
12	9.0	6.5	22.0	13.5	22.5	15.5	25.0	19.0	23.0	19.0	20.0	16.0
13	9.5	5.5	22.5	15.5	23.0	16.5	26.5	19.5	22.5	18.5	20.0	15.0
14	11.5	7.5	21.5	16.5	24.0	17.0	27.0	20.0	22.5	18.5	20.0	15.0
15	12.0	9.5	22.5	16.0	19.5	17.0	28.0	19.5	22.0	17.5	19.5	15.0
16	11.5	9.0	18.5	15.5	22.5	15.0	27.0	20.0	19.5	17.5	19.5	15.5
17	10.5	7.5	17.5	13.5	23.5	16.5	26.0	20.0	22.0	17.0	20.0	16.0
18	11.0	7.0	17.0	12.0	24.5	16.5	25.0	20.0	22.5	18.0	18.0	16.5
19	12.0	7.5	18.5	13.0	24.5	17.5	23.0	19.5	24.5	17.5	18.5	16.0
20	13.5	9.0	15.0	13.0	25.0	17.5	25.5	20.0	25.0	18.5	18.5	14.0
21	14.5	10.5	14.0	12.5	23.5	18.0	25.0	20.0	24.0	19.0	19.0	14.5
22	15.0	10.5	18.5	12.5	24.0	17.0	25.5	20.0	22.5	18.5	19.0	15.5
23	13.0	10.0	18.0	13.0	21.0	17.0	23.0	19.5	21.5	19.0	17.5	14.0
24	11.5	9.5	19.0	13.0	23.0	16.0	24.0	19.5	22.5	18.5	14.0	13.0
25	12.5	9.0	21.0	13.5	23.5	17.0	24.5	19.0	24.0	18.0	15.5	13.5
26	15.0	10.5	21.5	15.0	25.0	17.0	25.0	18.5	23.5	19.0	16.5	14.5
27	16.0	11.5	23.0	16.0	26.0	17.0	25.0	19.0	23.5	19.0	15.0	13.5
28	14.5	10.0	23.0	16.0	26.0	18.0	24.5	19.0	22.5	18.0	19.0	14.0
29	13.5	8.5	23.0	16.5	25.5	18.5	24.0	19.0	23.0	18.0	20.0	13.5
30	15.0	9.0	21.5	16.5	26.5	18.5	24.5	18.0	23.0	17.5	20.0	14.5
31	---	---	20.0	16.0	---	---	24.0	19.0	22.5	16.5	---	---
MONTH	16.0	5.5	23.0	10.5	26.5	14.0	28.0	17.5	26.5	16.5	22.0	13.0

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 mile downstream from Lamb Creek, and 11.1 miles northwest of Forest Glen.

DRAINAGE AREA.--143 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1971-72 (partial-record station).
Water temperatures: November 1960 to September 1972.
Sediment records: Water years 1957-72 (partial-record station).
Turbidity: Water years 1964-67, 1971-72 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 23.0°C June 28; minimum, 2.0°C Jan. 4.

Period of record:
Water temperatures: Maximum (1960-66, 1967-72), 26.0°C June 25, 1961; minimum, freezing point Jan. 5, 6, 1968.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED NITRITE PLUS NITRATE NITROGEN (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)
OCT.								
27...	1130	105	--	.00	.25	.32	.19	--
NOV.								
16...	1155	105	--	.04	.12	.15	.17	--
DEC.								
21...	1445	144	--	.05	.03	.04	.19	--
JAN.								
21...	1430	462	--	.04	.17	.22	.30	--
FEB.								
24...	0910	1700	--	.03	.10	.13	.27	--
MAR.								
30...	1400	506	--	.08	.08	.10	.04	--
APR.								
11...	1115	434	--	.10	.06	.08	.11	--
MAY								
31...	1200	70	--	.00	.05	.06	.02	--
JUNE								
21...	1430	48	--	.11	.05	.06	.12	.06
JULY								
21...	1100	81	--	.00	.05	.06	.21	.10
SEP.								
01...	1400	99	30	.01	.05	.06	--	.14

DATE	TOTAL KJELDAHL 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.							
27...	.44	--	.44	.04	.01	11.0	3.0
NOV.							
16...	.29	--	.33	.06	.01	8.0	2.5
DEC.							
21...	.22	--	.27	.06	.01	5.0	1.0
JAN.							
21...	.47	--	.51	.17	.01	6.5	2.5
FEB.							
24...	.37	--	.40	.12	.01	4.5	.5
MAR.							
30...	.12	--	.20	.07	.01	10.0	.5
APR.							
11...	.17	--	.27	.11	.01	8.0	3.0
MAY							
31...	.07	--	.07	.06	.00	17.0	.5
JUNE							
21...	.17	.11	.28	.05	.01	21.0	2.0
JULY							
21...	.26	.15	.26	.06	.00	17.0	3.5
SEP.							
01...	--	.19	--	.04	.00	17.5	2.5

11480500 MAD RIVER NEAR FOREST GLEN, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE IN BOTTOM DEPOSITS (UG/KG)
AUG.												
29...	1030	<.2	<1	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2
SEP.												
01...	1400	--	--	--	--	--	--	--	--	--	--	--

DATE	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	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)	DISSOLVED ZINC (ZN) (UG/L)
AUG.											
29...	<.2	<.2	<.2	--	--	--	--	--	--	--	--
SEP.											
01...	--	--	--	1	0	1	1	4	3.4	3.1	0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	12.5	11.5	9.0	7.5	6.0	4.5	3.0	5.0	3.0	5.5	5.0
2	16.5	13.0	11.0	8.5	7.5	5.5	4.5	3.0	5.0	3.0	6.0	5.5
3	17.0	13.5	11.0	8.5	6.5	5.0	3.5	2.5	5.5	4.0	6.5	5.5
4	17.5	13.5	11.0	8.5	7.0	6.0	4.0	2.0	5.0	4.5	6.5	6.0
5	17.5	14.0	11.5	9.5	7.5	6.0	4.0	2.5	5.5	4.5	8.0	6.0
6	17.5	14.5	10.0	7.5	7.0	5.5	4.5	2.5	6.0	4.5	8.5	6.5
7	17.5	14.0	10.5	8.5	6.0	4.5	4.5	2.5	6.0	4.0	9.0	6.5
8	18.0	14.0	10.0	8.5	6.5	5.0	4.5	3.5	6.0	4.5	10.0	7.0
9	17.5	14.0	10.0	9.0	6.5	6.0	5.0	3.5	6.0	3.5	8.5	7.5
10	17.0	13.5	11.5	10.0	6.5	4.5	4.0	3.0	6.0	3.5	8.5	8.0
11	17.5	14.5	11.0	10.0	6.0	5.0	4.0	3.0	6.0	4.0	8.5	7.5
12	17.0	14.0	10.0	9.5	5.0	3.5	4.5	4.0	6.0	4.0	8.5	8.0
13	17.0	14.0	9.5	8.0	5.5	4.5	5.0	4.0	6.5	4.0	10.0	7.0
14	16.0	13.5	9.5	8.0	6.0	5.0	4.5	3.0	5.0	4.0	9.5	7.0
15	13.5	12.5	9.0	7.0	5.5	4.5	4.5	3.0	6.5	4.5	9.5	7.0
16	14.0	11.5	9.0	6.5	5.0	3.5	4.5	2.5	6.5	4.5	11.0	6.5
17	13.0	11.0	9.0	7.0	5.0	4.0	5.0	3.5	6.5	4.0	13.0	7.5
18	13.5	11.5	8.5	7.0	5.5	4.5	6.0	4.5	6.5	4.0	10.0	7.5
19	13.0	12.5	9.0	7.0	5.5	4.5	6.0	5.5	6.0	4.5	9.5	6.0
20	15.5	12.5	9.5	8.0	5.5	4.5	6.0	5.5	7.5	5.0	10.0	6.0
21	14.0	12.0	9.0	7.5	5.0	4.0	7.0	6.0	7.0	4.5	8.5	6.5
22	13.5	12.0	10.0	8.5	5.0	4.0	7.0	5.5	5.0	4.0	7.5	7.0
23	13.5	12.0	9.0	8.0	5.0	4.0	5.5	4.5	5.0	4.5	9.5	6.5
24	13.5	11.0	9.5	8.5	5.0	4.0	5.0	4.5	5.5	4.5	8.0	7.0
25	13.0	10.5	9.0	8.0	5.0	4.0	5.0	4.0	5.5	5.0	9.0	6.5
26	12.5	11.5	9.0	8.5	4.5	4.0	5.0	4.0	6.0	5.5	9.5	6.5
27	12.0	10.0	8.5	8.0	4.5	4.0	5.0	3.5	6.0	5.5	9.5	6.5
28	11.0	8.5	8.5	7.5	4.5	3.0	5.0	4.0	6.0	5.5	10.0	6.5
29	11.0	8.0	8.0	7.5	5.0	4.0	5.5	3.5	6.0	5.0	10.0	6.0
30	10.5	10.0	8.0	7.0	5.0	4.0	5.5	3.5	---	---	10.5	6.5
31	12.0	9.5	---	---	5.0	3.0	5.0	3.5	---	---	8.5	6.5
MONTH	18.0	8.0	11.5	6.5	7.5	3.0	7.0	2.0	7.5	3.0	13.0	5.0

11480500 MAD RIVER NEAR FOREST GLEN, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)	TURBIDITY (JTU)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM
OCT.								
20...	1105	12.5	101	9	2.5	3	--	--
DEC.								
02...	1230	5.5	137	13	4.8	15	--	--
JAN.								
06...	0915	2.5	144	9	3.5	10	--	--
FEB.								
09...	1200	5.5	551	15	22	35	98	100
MAR.								
15...	1130	9.0	605	27	44	50	--	--
APR.								
19...	1135	9.5	462	16	20	15	--	--
MAY								
23...	1105	12.0	108	6	1.7	7	--	--
JULY								
12...	1315	18.5	62	10	1.7	9	--	--
SEP.								
11...	1700	16.0	99	6	1.6	4	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
FEB.							
09...	1305	5.5	1	551	--	5	34
09...	1310	5.5	1	551	2	5	10

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
FEB.						
09...	62	67	68	71	78	100
09...	16	25	54	72	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 upstream from bridge, and 5.4 miles east of Kneeland.

DRAINAGE AREA.--352 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1970 to September 1972.
Water temperatures: November 1965 to September 1972.
Sediment records: Water years 1971-72 (partial-record station).
Turbidity: Water years 1971-72 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 27.0°C July 19, 20; minimum, 3.0°C Jan. 4, 5, Feb. 1, 2.

Period of record:
Water temperatures: Maximum (1965-69, 1970-72), 28.0°C July 19-22, 1968; minimum, 2.0°C Mar. 2, 1966.

REMARKS.--Chemical-quality samples collected from right bank 150 ft upstream from gaging station. No thermograph record Oct. 1 to Nov. 9, Nov. 22, 23, Apr. 21 to July 13, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	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)
OCT.										
28...	1230	--	141	--	--	--	--	--	--	--
NOV.										
10-11	--	--	--	--	--	--	--	--	--	--
17-18	--	406	--	6.0	1600	--	10	23	3.5	3.9
DEC.										
22...	1340	--	5930	--	--	--	--	--	--	--
FEB.										
07...	1510	--	1550	--	--	--	--	--	--	--
24...	1425	--	6080	--	--	--	--	--	--	--
MAR.										
03...	1500	--	14100	--	--	--	--	--	--	--
07...	1445	--	3320	7.9	1800	--	--	12	2.1	2.4
31...	1130	--	1250	--	--	--	--	--	--	--
APR.										
11-12	--	2900	--	7.1	2100	320	--	21	4.2	3.3
JUNE										
01...	1130	--	182	--	--	--	--	--	--	--
22...	1400	--	116	--	--	--	--	--	--	--
JULY										
20...	1545	--	123	--	--	--	--	--	--	--
AUG.										
29-30	--	107	--	6.6	40	110	--	23	3.3	3.6

DATE	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)
OCT.										
28...	--	--	--	--	--	--	--	.02	.26	.33
NOV.										
10-11	--	--	--	--	--	--	--	--	.00	.00
17-18	.9	72	0	59	25	2.8	.2	.09	.13	.17
DEC.										
22...	--	--	--	--	--	--	--	.05	.29	.37
FEB.										
07...	--	--	--	--	--	--	--	.06	.15	.19
24...	--	--	--	--	--	--	--	.04	.12	.15
MAR.										
03...	--	--	--	--	--	--	--	.04	.12	.15
07...	.7	50	0	41	5.2	.6	.1	.00	--	--
31...	--	--	--	--	--	--	--	.07	.10	.13
APR.										
11-12	1.2	54	0	44	9.7	1.3	.1	.02	.37	.48
JUNE										
01...	--	--	--	--	--	--	--	.00	.06	.08
22...	--	--	--	--	--	--	--	.05	.05	.06
JULY										
20...	--	--	--	--	--	--	--	.01	.02	.03
AUG.										
29-30	.8	82	0	67	12	1.2	.0	.00	.07	.09

11480750 MAD RIVER NEAR KNEELAND, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	DISSOLVED KJEL. NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	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)
OCT.										
28...	.11	--	.37	--	.39	.10	.01	--	--	--
NOV.										
10-11	--	--	--	--	--	--	--	--	--	--
17-18	.37	--	.50	--	.59	.09	.02	108	103	.15
DEC.										
22...	.21	--	.50	--	.55	.71	.04	--	--	--
FEB.										
07...	.22	--	.37	--	.43	.16	.11	--	--	--
24...	.79	--	.91	--	.95	.58	.00	--	--	--
MAR.										
03...	1.2	--	1.3	--	1.3	1.7	.00	--	--	--
07...	--	--	--	--	--	--	--	52	57	.07
31...	.10	--	.20	--	.27	.47	.02	--	--	--
APR.										
11-12	.01	--	.38	--	.40	.79	.00	124	78	.17
JUNE										
01...	.00	--	.06	--	.07	.05	.01	--	--	--
22...	.13	.07	.18	.12	.23	.04	.01	--	--	--
JULY										
20...	.08	.07	.10	.09	.11	.06	.01	--	--	--
AUG.										
29-30	.11	.02	.18	.09	.18	.04	.00	96	91	.13

DATE	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.									
28...	--	--	--	--	--	--	--	9.5	.5
NOV.									
10-11	--	--	--	--	--	--	--	--	--
17-18	118	72	13	10	.2	146	7.9	--	16
DEC.									
22...	--	--	--	--	--	--	--	6.0	--
FEB.									
07...	--	--	--	--	--	--	--	6.0	1.0
24...	--	--	--	--	--	--	--	6.5	4.0
MAR.									
03...	--	--	--	--	--	--	--	9.0	14
07...	466	39	0	12	.2	90	7.9	10.0	--
31...	--	--	--	--	--	--	--	9.0	.5
APR.									
11-12	971	70	25	9	.2	101	7.5	8.5	10
JUNE									
01...	--	--	--	--	--	--	--	17.0	.5
22...	--	--	--	--	--	--	--	21.5	1.0
JULY									
20...	--	--	--	--	--	--	--	24.0	1.0
AUG.									
29-30	27.7	71	4	10	.2	149	8.0	--	1.0

11480750 MAD RIVER NEAR KNEELAND, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
NOV.										
17...	1700	443	59	151	7.9	8.0	11.6	97	--	--
17...	1800	431	--	--	--	--	--	--	2200	--
17...	1900	431	52	152	7.9	7.5	11.7	97	--	--
17...	2100	425	54	165	8.3	7.0	12.0	98	--	--
17...	2300	413	50	157	8.0	7.0	12.0	98	2000	--
18...	0200	419	57	170	8.0	7.0	12.0	98	--	--
18...	0500	407	57	169	8.0	6.5	12.0	97	2000	--
18...	0700	401	48	155	8.0	6.5	12.0	97	--	--
18...	0900	395	51	187	8.0	6.5	12.1	98	--	--
18...	1100	390	51	153	8.0	7.5	12.0	100	1550	--
18...	1300	385	48	157	8.0	8.5	11.9	101	--	--
18...	1500	385	50	155	7.7	8.5	11.5	98	--	--
18...	1700	380	54	150	8.0	8.0	11.6	97	--	--
APR.										
11...	1900	2060	51	119	7.5	9.0	11.3	99	3000	--
11...	2100	2140	48	126	7.6	9.0	11.4	100	--	--
11...	2300	2180	44	130	7.3	8.5	11.4	99	--	--
12...	0100	2240	41	132	7.0	8.5	11.4	99	2500	--
12...	0400	2300	43	128	7.3	8.0	11.4	98	--	--
12...	0700	2660	46	130	7.2	7.5	11.6	99	8000	--
12...	0900	3160	44	132	7.2	8.0	11.6	100	--	--
12...	1100	3650	44	126	7.0	8.0	11.5	99	--	--
12...	1300	4180	44	300	7.1	8.0	11.4	98	>8000	--
12...	1500	3830	46	390	7.3	8.0	11.3	97	--	--
12...	1700	3530	44	420	7.2	8.0	11.6	100	--	--
12...	1900	3140	--	360	7.3	7.5	11.5	98	--	--
AUG.										
29...	2100	108	72	--	8.2	21.0	8.0	--	--	<20
29...	2300	108	74	134	8.2	20.0	8.0	--	--	--
30...	0100	108	77	147	7.8	19.0	8.2	--	--	--
30...	0300	108	75	150	7.9	18.5	8.3	--	--	<20
30...	0700	108	77	148	8.0	18.0	8.7	--	--	--
30...	0900	108	87	144	8.1	18.0	8.9	--	--	<20
30...	1100	108	77	157	8.5	20.0	9.2	--	--	--
30...	1300	108	70	172	8.3	22.0	9.1	--	--	--
30...	1500	106	108	180	8.4	24.0	8.8	--	--	<20
30...	1700	106	72	157	8.6	24.0	8.4	--	--	--
30...	1900	106	66	156	8.3	23.0	8.0	--	--	--
30...	2100	106	67	116	7.9	21.0	7.9	--	--	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)
NOV.											
18...	1440	.00	<.2	.0	<1	.00	<.2	.00	<.2	.00	<.2
APR.											
12...	1700	.00	--	.0	--	.00	--	.00	--	.00	--
AUG.											
28...	1230	--	<.2	--	<1	--	<.2	--	<.2	--	<.2

DATE	DIAZINON IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)
NOV.										
18...	--	.00	<.2	.00	<.2	.00	<.2	.00	<.2	.00
APR.										
12...	--	.00	--	.00	--	.00	--	.00	--	.00
AUG.										
28...	<.2	--	<.2	--	<.2	--	<.2	--	<.2	--

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
NOV.										
18...	<.2	<.2	<.2	<.2	.00	<2.1	.00	<.7	.00	<.7
APR.										
12...	--	--	--	--	.00	--	.00	--	.00	--
AUG.										
28...	<.2	<.2	<.2	<.2	--	--	--	--	--	--

11480750 MAD RIVER NEAR KNEELAND, CALIF.--Continued

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
NOV.									
17-18	--	0	60	0	0	0	7	0	50
MAR.									
07...	1445	--	20	--	--	--	--	--	--
APR.									
11-12	--	0	30	4	0	14	130	150	270
AUG.									
29-30	--	--	50	1	0	1	1	4	10

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	--	--	--	--	--	--	8.5	--	8.0	5.0	--	4.0	4.0	--	3.0	7.0	--	6.0
2	--	--	--	--	--	--	8.5	--	7.5	5.0	--	4.0	4.0	--	3.0	8.0	--	7.0
3	--	--	--	--	--	--	8.0	--	7.5	4.0	--	3.5	5.5	--	3.5	9.0	--	7.5
4	--	--	--	--	--	--	8.5	--	7.5	4.0	--	3.0	6.5	--	5.5	9.0	--	7.5
5	--	--	--	--	--	--	9.5	--	8.5	4.0	--	3.0	6.0	--	5.5	8.5	--	7.5
6	--	--	--	--	--	--	9.5	--	8.0	4.5	--	3.5	7.0	--	6.0	9.5	--	7.5
7	--	--	--	--	--	--	8.0	--	7.0	5.0	--	4.0	6.5	--	6.0	10.0	--	8.0
8	--	--	--	--	--	--	8.5	--	7.0	5.0	--	4.5	7.0	--	6.0	9.5	--	8.5
9	--	--	--	--	--	--	8.5	--	7.5	6.0	--	5.0	6.5	--	5.5	9.5	--	9.0
10	--	--	--	11.5	--	10.5	7.5	--	6.5	5.5	--	5.0	6.5	--	5.0	9.5	--	9.0
11	--	--	--	12.0	--	11.0	7.0	--	6.0	5.5	--	5.0	7.5	--	6.0	9.5	--	8.5
12	--	--	--	11.0	--	10.5	7.0	--	6.5	6.0	--	5.5	6.5	--	5.5	10.0	--	9.0
13	--	--	--	10.5	--	9.0	7.0	--	6.0	6.0	--	5.5	8.0	--	6.5	10.5	--	9.5
14	--	--	--	9.5	--	8.5	7.0	--	6.5	5.5	--	4.5	7.0	--	6.0	10.0	--	9.0
15	--	--	--	9.5	--	8.0	7.0	--	6.5	5.5	--	4.0	7.0	--	6.0	10.5	--	9.0
16	--	--	--	8.5	--	7.0	6.5	--	5.5	5.5	--	4.5	8.5	--	7.0	11.5	--	9.5
17	--	--	--	8.5	--	7.0	6.5	--	5.5	6.0	--	5.0	8.0	--	6.5	12.5	--	10.0
18	--	--	--	8.5	--	6.5	6.0	--	5.5	7.0	--	6.0	8.0	--	6.5	12.0	--	10.0
19	--	--	--	9.5	--	6.0	6.0	--	5.5	7.0	--	6.5	8.0	--	7.5	10.5	--	9.5
20	--	--	--	10.0	--	7.5	6.0	--	5.0	7.0	--	7.0	8.5	--	7.5	11.0	--	9.0
21	--	--	--	11.0	--	8.0	6.5	--	5.5	7.5	--	7.0	8.0	--	7.0	11.0	--	9.5
22	--	--	--	--	--	--	7.0	--	6.0	8.0	--	7.5	7.0	--	5.5	10.0	--	8.5
23	--	--	--	--	--	--	7.0	--	6.0	8.0	--	6.0	6.5	--	5.5	9.5	--	8.0
24	--	--	--	11.0	--	10.0	7.0	--	6.5	6.0	--	5.5	6.5	--	6.0	8.5	--	7.5
25	--	--	--	10.0	--	9.0	6.5	--	6.0	6.0	--	5.0	6.5	--	6.0	7.5	--	7.0
26	--	14.0	--	10.0	--	9.5	6.5	--	6.0	5.0	--	4.5	7.5	--	6.0	7.5	--	6.5
27	--	--	--	10.0	--	9.5	6.0	--	5.0	4.5	--	4.0	7.5	--	7.0	8.5	--	6.5
28	--	--	--	10.0	--	9.5	5.0	--	4.0	4.5	--	4.0	7.5	--	7.0	8.5	--	7.5
29	--	--	--	10.0	--	9.0	6.0	--	5.0	4.5	--	3.5	7.0	--	5.5	9.5	--	7.5
30	--	--	--	9.0	--	8.5	6.0	--	5.0	4.5	--	3.5	--	--	--	10.0	--	7.5
31	--	--	--	--	--	--	5.0	--	4.5	4.5	--	3.5	--	--	--	10.0	--	8.0
MONTH	--	--	--	--	--	--	9.5	--	4.0	8.0	--	3.0	8.5	--	3.0	12.5	--	6.0

11480750 MAD RIVER NEAR KNEELAND, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	APR MAX	APR MIN	APR DAILY	MAY MAX	MAY MIN	MAY DAILY	JUN MAX	JUN MIN	JUN DAILY	JUL MAX	JUL MIN	JUL DAILY	AUG MAX	AUG MIN	AUG DAILY	SEP MAX	SEP MIN	SEP DAILY
1	10.5	--	9.5	--	--	--	--	17.0	--	--	--	--	23.0	--	21.5	23.0	--	21.0
2	13.0	--	10.0	--	--	--	--	--	--	--	--	--	23.0	--	21.0	23.0	--	21.5
3	12.5	--	11.0	--	--	--	--	--	--	--	--	--	23.5	--	21.5	23.5	--	21.5
4	13.0	--	11.0	--	--	--	--	--	--	--	--	--	24.0	--	21.0	23.0	--	21.5
5	11.5	--	10.5	--	--	--	--	--	--	--	--	--	23.5	--	21.0	22.0	--	21.0
6	11.0	--	10.0	--	--	--	--	--	--	--	--	--	22.5	--	21.5	22.5	--	20.0
7	10.5	--	9.5	--	--	--	--	--	--	--	--	--	23.0	--	21.5	22.0	--	19.5
8	10.5	--	9.0	--	--	--	--	--	--	--	--	--	23.0	--	21.5	22.0	--	20.0
9	10.0	--	8.0	--	--	--	--	--	--	--	--	--	23.5	--	22.0	23.0	--	19.5
10	10.0	--	8.0	--	--	--	--	--	--	--	--	--	24.0	--	22.5	21.5	--	18.5
11	9.5	--	8.5	--	--	--	--	--	--	--	--	--	24.5	--	22.5	21.5	--	18.0
12	8.5	--	7.0	--	--	--	--	--	--	--	--	--	24.5	--	22.0	21.0	--	18.5
13	9.0	--	7.0	--	--	--	--	--	--	--	24.5	--	24.0	--	21.5	21.0	--	18.5
14	10.5	--	8.0	--	--	--	--	--	--	22.0	--	20.5	23.5	--	21.5	20.5	--	18.0
15	11.5	--	9.0	--	--	--	--	--	--	22.5	--	21.0	23.5	--	21.0	20.0	--	17.5
16	10.5	--	8.5	--	--	--	--	--	--	26.5	--	22.5	22.0	--	20.5	20.5	--	18.0
17	10.0	--	8.0	--	--	--	--	--	--	26.5	--	22.5	23.0	--	20.0	19.5	--	18.0
18	10.0	--	7.5	--	--	--	--	--	--	26.5	--	22.5	22.5	--	20.0	19.0	--	18.0
19	11.0	--	8.0	--	--	--	--	--	--	27.0	--	22.0	22.5	--	20.0	19.5	--	17.0
20	12.5	--	9.0	--	--	--	--	--	--	27.0	--	22.0	23.0	--	20.0	21.5	--	16.5
21	--	11.0	--	--	--	--	--	--	--	23.5	--	22.0	23.0	--	20.5	20.0	--	16.5
22	--	--	--	--	--	--	--	21.5	--	24.5	--	20.5	23.0	--	19.5	21.5	--	16.5
23	--	--	--	--	--	--	--	--	--	23.0	--	20.5	23.5	--	21.0	19.5	--	16.0
24	--	--	--	--	--	--	--	--	--	22.5	--	21.0	23.0	--	20.5	20.5	--	16.0
25	--	--	--	--	--	--	--	--	--	23.0	--	20.5	23.5	--	21.0	17.5	--	16.0
26	--	--	--	--	--	--	--	--	--	23.0	--	20.5	23.5	--	21.0	17.0	--	15.5
27	--	--	--	--	--	--	--	--	--	23.0	--	21.0	25.5	--	21.0	16.5	--	15.0
28	--	--	--	--	--	--	--	--	--	23.5	--	21.5	26.0	--	21.0	19.5	--	15.0
29	--	--	--	--	--	--	--	--	--	24.5	--	21.0	23.5	--	20.0	20.0	--	14.5
30	--	--	--	--	--	--	--	--	--	23.0	--	21.0	24.0	--	18.0	20.5	--	14.0
31	--	--	--	--	--	--	--	--	--	23.0	--	21.5	23.5	--	21.0	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	26.0	--	18.0	23.5	--	14.0

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
NOV.											
30...	1400	8.5	2660	260	1870	80	34	46	55	67	76
DEC.											
22...	1130	6.0	6400	2500	43200	500	--	--	--	--	--
22...	1510	6.0	5720	1500	23200	360	21	24	33	43	54
JAN.											
04...	1410	3.5	763	18	37	15	--	--	--	--	--
21...	1135	7.0	13200	3700	132000	850	28	32	40	51	67
21...	1235	7.0	12300	3350	111000	800	28	29	39	51	64
21...	1330	7.0	11700	3080	97300	700	29	32	41	51	64
21...	1505	7.5	11700	2780	87800	700	25	31	40	53	64
23...	1150	6.0	14100	2560	97500	600	27	31	42	53	65
23...	1450	6.0	11700	2320	73300	500	--	--	--	--	--
MAR.											
04...	1440	9.0	7910	2440	52100	480	23	31	36	52	66
07...	1330	9.0	3320	763	6840	80	23	34	45	57	65
31...	1250	9.0	1250	170	574	50	--	--	--	--	--
APR.											
12...	1000	7.5	3550	1920	18400	400	--	--	--	--	--

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. FALL DIAM. % FINER THAN 2.00 MM
NOV.											
30...	--	84	--	86	--	90	--	100	--	--	--
DEC.											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	62	--	67	--	78	--	92	--	98	--	100
JAN.											
04...	--	66	--	72	--	78	--	100	--	--	--
21...	76	--	87	--	97	--	99	--	100	--	--
21...	74	--	87	--	97	--	100	--	--	--	--
21...	75	--	86	--	96	--	99	--	100	--	--
21...	76	--	87	--	96	--	100	--	--	--	--
23...	77	--	88	--	97	--	100	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
04...	77	--	87	--	96	--	100	--	--	--	--
07...	--	77	--	82	--	89	--	100	--	--	--
31...	--	49	--	54	--	76	--	89	--	100	--
APR.											
12...	--	--	--	--	--	--	--	--	--	--	--

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 upstream from bridge on U.S. Highway 299, 1.0 mile downstream from Warren Creek, and 2.8 miles northeast of Arcata.

DRAINAGE AREA.--485 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1958 to September 1972.
Water temperatures: December 1957 to September 1972.
Sediment records: Water years 1955-57 (partial-record station), December 1957 to September 1972.
Turbidity: Water years 1971-72 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Minimum, 3.0°C Jan. 6.
Sediment concentrations: Maximum daily, 6,330 mg/l Mar. 3; minimum daily, 1 mg/l on several days during July.
Sediment discharge: Maximum daily, 570,000 tons Mar. 3; minimum daily, 0.06 ton Aug. 10, 11.

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 Dec. 22, 1964; minimum daily, 0.01 ton July 31, 1970.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Oct. 21-26, Nov. 29 to Dec. 21, Jan. 4 to Feb. 8, June 15 to July 17, recorder stopped; July 18 to Sept. 30, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.								
10...	0925	3780	--	--	4.8	--	56	0
JAN.								
10...	1400	459	--	--	3.5	--	67	0
MAR.								
06...	1415	5640	15	2.0	2.7	.6	52	0
MAY								
01...	1400	580	--	--	4.2	--	70	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (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)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
NOV.									
10...	46	--	3.7	--	--	--	--	60	14
JAN.									
10...	55	--	2.3	--	--	--	--	61	6
MAR.									
06...	43	4.8	1.3	.09	52	.07	792	45	2
MAY									
01...	57	--	2.8	--	--	--	--	63	6

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED BORON (B) (UG/L)
NOV.						
10...	--	.3	140	7.1	10.5	200
JAN.						
10...	--	.2	139	7.4	7.0	100
MAR.						
06...	11	.2	103	7.7	10.5	0
MAY						
01...	--	.2	140	7.6	15.5	100

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
NOV.						
10...	0925	3780	133	7.2	10.5	11.0
JAN.						
10...	1400	459	143	7.4	7.0	11.9
MAR.						
06...	1415	5640	98	7.5	10.5	11.1
MAY						
01...	1400	580	139	7.6	15.5	10.4
JULY						
12...	0930	49	207	7.8	19.0	9.1
SEP.						
13...	0900	34	200	7.8	16.0	9.4

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	12.5	--	10.0	11.0	--	7.5	--	10.0	--	7.5	--	4.0	--	4.0	--	9.0	--	7.0
2	14.0	--	10.5	12.5	--	7.5	--	10.0	--	7.0	--	4.0	--	4.0	--	9.5	--	9.0
3	14.0	--	12.5	11.0	--	7.5	--	7.0	--	6.5	--	3.5	--	5.0	--	10.0	--	9.0
4	17.0	--	13.5	10.5	--	8.0	--	8.0	--	--	4.0	--	--	8.0	--	9.5	--	9.0
5	17.0	--	13.5	10.5	--	8.0	--	9.0	--	--	4.0	--	--	8.0	--	11.5	--	9.0
6	15.5	--	14.5	10.0	--	8.5	--	8.0	--	--	3.0	--	--	8.0	--	12.0	--	9.5
7	17.5	--	14.0	10.0	--	9.5	--	8.0	--	--	5.0	--	--	8.0	--	13.0	--	10.0
8	17.0	--	14.0	12.0	--	9.0	--	6.0	--	--	5.0	--	--	6.5	--	12.0	--	9.5
9	16.0	--	14.5	10.5	--	9.0	--	8.0	--	--	5.0	--	10.0	--	6.5	11.0	--	10.5
10	14.5	--	14.0	9.5	--	7.5	--	7.0	--	--	5.0	--	9.0	--	6.0	11.0	--	11.0
11	15.0	--	13.5	10.0	--	6.0	--	7.0	--	--	5.0	--	10.5	--	7.0	11.0	--	11.0
12	17.0	--	14.0	10.0	--	5.5	--	7.0	--	--	8.0	--	8.5	--	6.5	11.5	--	11.0
13	17.5	--	14.0	9.5	--	6.0	--	6.0	--	--	7.0	--	11.0	--	8.0	12.0	--	11.5
14	17.0	--	12.0	9.5	--	7.0	--	8.0	--	--	5.0	--	8.5	--	8.0	11.5	--	11.5
15	14.5	--	10.0	10.5	--	6.0	--	6.0	--	--	5.0	--	9.5	--	7.5	12.0	--	11.5
16	14.0	--	8.5	10.0	--	7.0	--	5.0	--	--	6.0	--	12.0	--	8.5	12.5	--	11.5
17	12.0	--	8.0	11.0	--	7.5	--	5.0	--	--	7.0	--	10.5	--	8.0	12.5	--	12.5
18	11.0	--	9.0	9.5	--	8.5	--	5.0	--	--	9.0	--	10.5	--	8.5	13.5	--	11.5
19	11.5	--	11.0	10.0	--	9.0	--	5.0	--	--	8.0	--	10.5	--	8.5	13.0	--	11.0
20	14.0	--	10.5	11.5	--	10.0	--	6.0	--	--	10.0	--	11.5	--	9.0	13.0	--	11.0
21	--	10.0	--	11.5	--	8.5	--	7.0	--	--	9.0	--	11.0	--	8.5	12.0	--	11.5
22	--	--	--	10.0	--	9.0	7.5	--	6.0	--	10.0	--	8.5	--	8.0	12.0	--	10.0
23	--	--	--	10.0	--	10.0	6.5	--	5.5	--	8.0	--	8.5	--	7.5	11.5	--	10.0
24	--	--	--	10.0	--	9.5	7.0	--	6.0	--	6.5	--	8.0	--	7.5	10.5	--	8.5
25	--	--	--	10.0	--	9.5	6.5	--	5.0	--	6.0	--	8.5	--	7.5	11.5	--	10.0
26	--	10.0	--	11.0	--	9.0	5.5	--	5.0	--	7.0	--	8.5	--	8.0	10.0	--	7.5
27	12.5	--	8.0	9.0	--	8.5	8.0	--	5.5	--	6.0	--	9.0	--	8.5	10.0	--	8.5
28	10.5	--	6.0	9.0	--	6.5	6.5	--	4.0	--	4.0	--	9.0	--	8.5	10.5	--	9.0
29	10.5	--	5.5	--	10.0	--	6.5	--	5.5	--	4.0	--	9.0	--	7.5	10.5	--	8.5
30	10.5	--	6.5	--	10.0	--	7.5	--	5.5	--	5.0	--	--	--	--	10.5	--	9.0
31	11.0	--	7.5	--	--	--	7.5	--	4.5	--	4.0	--	--	--	--	10.5	--	10.5
MONTH	17.5	--	5.5	12.5	--	5.5	--	--	--	--	--	--	--	--	--	13.5	--	7.0

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	APR MAX	APR DAILY	APR MIN	MAY MAX	MAY DAILY	MAY MIN	JUN MAX	JUN DAILY	JUN MIN	JUL MAX	JUL DAILY	JUL MIN	AUG MAX	AUG DAILY	AUG MIN	SEP MAX	SEP DAILY	SEP MIN
1	10.5	--	10.5	12.0	--	9.5	14.0	--	12.0	--	--	--	--	--	--	--	--	--
2	11.5	--	10.5	12.5	--	10.5	13.5	--	11.0	--	--	--	--	--	--	--	--	--
3	12.0	--	11.5	12.5	--	11.5	14.0	--	12.0	--	--	--	--	--	--	--	--	--
4	12.5	--	12.0	12.0	--	12.0	13.5	--	12.0	--	--	--	--	--	--	--	--	--
5	12.5	--	12.0	12.5	--	11.5	14.0	--	11.5	--	18.0	--	--	19.0	--	--	18.0	--
6	12.5	--	10.5	12.5	--	12.0	13.5	--	12.5	--	--	--	--	--	--	--	--	--
7	12.5	--	10.5	12.5	--	11.5	13.5	--	12.0	--	--	--	--	--	--	--	--	--
8	12.0	--	9.0	13.0	--	11.5	14.0	--	12.0	--	--	--	--	--	--	--	--	--
9	11.5	--	8.5	13.5	--	11.5	14.0	--	12.0	--	--	--	--	--	--	--	--	--
10	11.0	--	8.5	13.5	--	12.0	13.0	--	12.0	--	17.0	--	--	18.0	--	--	19.0	--
11	10.5	--	9.5	14.0	--	12.0	14.0	--	12.0	--	--	--	--	--	--	--	--	--
12	10.5	--	9.5	14.0	--	12.0	14.5	--	12.0	--	--	--	--	--	--	--	--	--
13	11.5	--	9.0	14.5	--	13.5	14.5	--	13.0	--	--	--	--	--	--	--	--	--
14	11.0	--	9.0	13.5	--	13.5	14.0	--	12.5	--	21.0	--	--	--	--	--	--	--
15	11.5	--	10.5	14.5	--	13.0	--	--	--	--	18.0	--	--	19.0	--	--	18.0	--
16	11.5	--	8.5	14.0	--	13.0	--	18.0	--	--	--	--	--	--	--	--	--	--
17	11.5	--	8.0	13.5	--	11.5	--	--	--	--	19.0	--	--	--	--	--	--	--
18	10.5	--	8.0	13.5	--	10.5	--	--	--	--	--	--	--	--	--	--	--	--
19	11.0	--	9.5	13.0	--	11.0	--	16.5	--	--	--	--	--	--	--	--	--	--
20	11.5	--	10.0	13.0	--	11.5	--	17.0	--	--	19.0	--	--	18.0	--	--	15.0	--
21	12.0	--	10.0	12.5	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--
22	12.5	--	10.0	13.0	--	11.5	--	--	--	--	--	--	--	--	--	--	--	--
23	11.5	--	10.0	13.5	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--
24	12.0	--	10.0	14.0	--	11.5	--	--	--	--	18.0	--	--	--	--	--	--	--
25	12.0	--	10.0	14.0	--	12.5	--	18.0	--	--	19.0	--	--	19.0	--	--	15.0	--
26	12.5	--	10.0	14.0	--	13.0	--	--	--	--	--	--	--	--	--	--	--	--
27	12.0	--	11.5	13.5	--	13.0	--	--	--	--	--	--	--	--	--	--	--	--
28	12.5	--	11.0	13.5	--	12.5	--	--	--	--	--	--	--	--	--	--	--	--
29	12.5	--	9.5	14.5	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--
30	12.5	--	9.0	14.0	--	12.5	--	18.0	--	--	19.0	--	--	20.0	--	--	14.0	--
31	--	--	--	14.0	--	12.0	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	12.5	--	8.0	14.5	--	9.5	--	--	--	--	--	--	--	--	--	--	--	--

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	255	70	48	114	8	2.5	2280	223	1370
2	152	45	18	100	6	1.6	2310	355	2280
3	117	35	11	88	5	1.2	2780	306	2310
4	93	30	7.5	80	4	.86	2290	180	1110
5	77	25	5.2	75	4	.81	5310	935	20200
6	70	20	3.8	69	4	.75	12500	2590	104000
7	60	15	2.4	75	5	1.0	4550	720	8850
8	87	20	4.7	79	5	1.1	2670	310	2230
9	105	20	5.7	108	25	7.3	4980	1050	15900
10	107	20	5.8	2690	1120	9870	4790	700	9050
11	101	20	5.5	1330	390	1400	3970	431	4620
12	96	15	3.9	1080	320	933	3560	420	4100
13	65	10	1.8	3420	1220	14100	3070	267	2210
14	48	10	1.3	2540	570	3910	3180	336	3260
15	44	10	1.2	1220	230	758	3580	360	3590
16	49	10	1.3	767	100	207	2320	246	1540
17	44	10	1.2	593	43	69	1760	211	1000
18	37	10	1.0	494	25	33	1580	192	819
19	49	10	1.3	419	23	26	1390	188	706
20	100	15	4.1	371	17	17	1190	181	582
21	114	12	3.7	345	10	9.3	1030	176	489
22	75	10	2.0	307	8	6.6	4710	1840	27200
23	98	10	2.6	285	9	6.9	4610	720	8960
24	143	25	9.7	363	80	78	4820	646	8720
25	110	22	6.5	538	100	145	4240	506	5790
26	93	20	5.0	4180	1690	34100	2640	326	2320
27	102	18	5.0	4790	946	14200	1910	232	1200
28	97	16	4.2	6120	965	16700	1470	189	750
29	87	15	3.5	6520	770	13600	1190	170	546
30	86	10	2.3	4360	360	4240	998	107	288
31	121	10	3.3	--	--	--	850	74	170
TOTAL	2882	--	182.5	43520	--	114425.92	98528	--	246160

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	786	55	117	1760	192	912	9510	936	25700
2	778	54	113	1520	172	706	34200	5370	536000
3	738	52	104	1380	158	589	29800	6330	570000
4	709	49	94	1590	222	997	12700	3400	117000
5	632	43	73	2000	295	1600	8330	2100	47200
6	578	37	58	1780	215	1030	5800	1310	20500
7	578	34	53	1720	195	906	4160	860	9660
8	554	32	48	1610	145	630	3170	760	6500
9	500	32	43	1490	140	563	2590	610	4270
10	454	32	39	1370	127	470	2350	537	3410
11	448	33	40	1250	109	368	2450	606	4010
12	802	98	219	1140	93	286	2540	527	3610
13	899	96	236	1100	86	255	2630	447	3170
14	770	52	108	1160	90	290	2260	384	2340
15	688	42	78	1330	140	512	1890	312	1590
16	639	39	67	1140	92	283	1660	244	1090
17	625	38	64	1060	86	246	1240	239	800
18	1050	100	284	998	85	229	1320	207	738
19	2280	505	3100	962	89	231	1210	171	559
20	2090	230	1300	1940	472	2590	1050	166	471
21	17500	3820	204000	1620	275	1200	960	177	459
22	30600	4870	460000	3600	867	9350	1500	687	3200
23	22400	3680	241000	3960	625	6680	2100	718	4260
24	10600	1850	52900	6100	1370	22700	3470	896	11300
25	7240	1100	21500	5560	700	10500	5400	1300	19600
26	5500	716	10600	10500	2260	63300	3650	770	7590
27	4210	551	6260	9500	1160	29800	2890	580	4530
28	3250	435	3820	14000	2350	90200	2320	442	2770
29	2620	360	2550	13600	1830	69500	1860	345	1730
30	2210	293	1750	--	--	--	1650	292	1300
31	1980	227	1210	--	--	--	1410	250	952
TOTAL	124708	--	1011828	96740	--	316923	158070	--	1416309

	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	1240	198	663	572	98	151	173	16	7.5
2	1280	156	539	446	96	116	175	15	7.1
3	1140	125	385	394	91	97	153	14	5.8
4	1040	122	343	388	97	102	149	13	5.2
5	1090	129	380	397	82	88	144	10	3.9
6	1810	380	1910	385	58	60	135	9	3.3
7	2410	459	3020	397	46	49	118	5	1.6
8	2160	328	1930	414	37	41	114	5	1.5
9	1980	271	1450	379	28	29	194	12	6.3
10	1600	226	976	352	42	40	258	20	14
11	1570	252	1070	325	54	47	219	21	12
12	3600	516	5020	304	56	46	171	19	8.8
13	3000	379	3070	295	27	22	144	17	6.6
14	2500	450	3040	310	10	8.4	122	16	5.3
15	2300	499	3100	286	8	6.2	94	14	3.6
16	2180	316	1860	307	12	9.9	90	12	2.9
17	2000	286	1540	467	44	55	84	12	2.7
18	1820	256	1260	400	43	46	88	11	2.6
19	1720	229	1060	286	36	28	86	11	2.6
20	1550	210	879	253	29	20	90	10	2.4
21	1430	201	776	316	45	38	58	10	1.6
22	1200	199	645	404	45	49	53	9	1.3
23	1020	98	270	352	15	14	46	8	.99
24	1160	195	611	319	11	9.5	49	6	.79
25	1230	185	614	289	12	9.4	46	4	.50
26	1000	135	365	258	14	9.8	49	5	.66
27	825	76	169	238	20	13	39	5	.53
28	750	50	101	217	20	12	42	5	.57
29	668	40	72	197	19	10	36	5	.49
30	604	41	67	186	18	9.0	36	6	.58
31	--	--	--	173	17	7.9	--	--	--
TOTAL	47877	--	37185	10306	--	1243.1	3255	--	113.71

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	39	5	.53	20	2	.11	39	3	.32
2	42	5	.57	14	2	.08	52	4	.56
3	53	4	.57	10	3	.08	54	5	.73
4	86	4	.93	22	3	.18	61	6	.99
5	80	4	.86	22	3	.18	51	7	.96
6	90	4	.97	15	3	.12	25	7	.47
7	53	4	.57	10	3	.08	12	7	.23
8	39	3	.32	8.8	3	.07	8.8	7	.17
9	33	3	.27	8.0	4	.09	8.8	7	.17
10	42	3	.34	5.6	4	.06	20	7	.38
11	53	3	.43	5.6	4	.06	10	7	.19
12	30	3	.24	8.0	4	.09	25	7	.47
13	25	3	.20	11	5	.15	20	7	.38
14	22	3	.18	11	5	.15	12	7	.23
15	34	3	.28	18	6	.29	10	7	.19
16	73	3	.59	28	5	.38	7.2	7	.14
17	75	2	.41	28	4	.30	22	7	.42
18	80	2	.43	22	4	.24	7.2	6	.12
19	56	2	.30	20	4	.22	6.4	6	.10
20	44	2	.24	28	4	.30	10	5	.14
21	41	2	.22	30	4	.32	30	10	.81
22	28	2	.15	30	4	.32	28	10	.76
23	28	1	.08	25	4	.27	33	15	1.3
24	28	1	.08	17	4	.18	30	10	.81
25	28	1	.08	14	4	.15	42	23	2.6
26	28	1	.08	17	4	.18	80	40	8.6
27	26	1	.07	22	3	.18	240	72	47
28	34	1	.09	20	3	.16	182	66	32
29	41	2	.22	12	3	.10	102	56	15
30	34	2	.18	31	3	.25	86	43	10
31	30	2	.16	38	3	.31	--	--	--
TOTAL	1395	--	10.64	571.0	--	5.65	1314.4	--	126.24

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 589166.4
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 3144512.76

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.										
07...	1620	8.0	3960	644	6890	24	32	40	49	56
28...	1425	6.5	1380	199	741	25	33	51	64	75
JAN.										
21...	1410	9.0	22400	4680	283000	22	25	33	45	56
24...	1325	6.5	10100	1760	48000	23	29	38	48	62
MAR.										
04...	1315	9.0	12200	3240	107000	--	--	--	--	--
APR.										
25...	1320	11.5	1200	175	567	36	52	61	71	78

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
DEC.									
07...	66	--	71	--	86	--	100	--	--
28...	--	95	--	97	--	100	--	--	--
JAN.									
21...	69	--	83	--	97	--	99	--	100
24...	69	--	82	--	96	--	100	--	--
MAR.									
04...	73	--	84	--	96	--	99	--	100
APR.									
25...	--	90	--	91	--	95	--	100	--

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
DEC.								
28...	1610	6.5	5	1390	177	291	--	2
JAN.								
21...	1440	9.0	5	23800	234	1870	--	4
24...	1405	6.5	5	10000	222	451	1	7
MAR.								
04...	1355	9.0	5	11900	222	990	1	5
APR.								
25...	1410	11.5	5	1210	152	34	1	4

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
DEC.								
28...	14	33	61	83	95	99	100	--
JAN.								
21...	15	25	40	57	69	83	93	100
24...	17	22	29	43	63	81	91	100
MAR.								
04...	15	27	39	50	62	75	87	100
APR.								
25...	38	62	93	96	99	100	--	--

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE OF COLLECTION	TIME (24-HOUR)	CONCENTRATION OF SUSPENDED SEDIMENT (MG/L)	TURBIDITY (JTU)
Oct. 1, 1971..	--	74	45
Oct. 21.....	--	12	10
Oct. 28.....	--	16	10
Nov. 4.....	--	4	2
Nov. 10	0805	1340	195
Nov. 10.....	1400	1620	200
Nov. 13.....	0910	919	190
Nov. 13.....	1550	1990	190
Nov. 15.....	--	174	90
Nov. 16.....	--	80	55
Nov. 17.....	--	42	35
Nov. 18.....	--	24	20
Nov. 19.....	--	24	20
Nov. 20.....	--	18	15
Nov. 21.....	--	11	10
Nov. 22.....	--	8	10
Nov. 23.....	--	9	8
Nov. 24.....	--	11	10
Nov. 25.....	--	100	45
Nov. 26.....	0930	354	100
Nov. 26.....	1530	3440	120
Nov. 28.....	--	1590	200
Dec. 3.....	--	276	90
Dec. 4.....	--	186	80
Dec. 5.....	1000	728	120
Dec. 5.....	1400	562	150
Dec. 6.....	--	3040	130
Dec. 7.....	--	683	120
Dec. 9.....	0830	1300	200
Dec. 9.....	1415	1410	200
Dec. 12.....	--	583	150
Dec. 13.....	--	284	100
Dec. 14.....	--	152	70
Dec. 22.....	0900	2720	210
Dec. 22.....	1600	2350	210
Dec. 28.....	--	214	62
Dec. 31.....	--	78	40
Jan. 1, 1972..	--	55	30
Jan. 2.....	--	54	30
Jan. 3.....	--	52	30
Jan. 5.....	--	44	25
Jan. 6.....	--	38	20
Jan. 7.....	--	130	60
Jan. 8.....	--	32	20
Jan. 9.....	--	32	20
Jan. 10.....	--	32	20
Jan. 11.....	--	160	75
Jan. 12.....	--	96	40
Jan. 13.....	--	110	50
Jan. 14.....	--	54	30
Jan. 15.....	--	42	25
Jan. 16.....	--	39	25
Jan. 18.....	--	58	30
Jan. 19.....	--	708	120
Jan. 20.....	--	218	90
Jan. 21.....	0810	4580	700
Jan. 21.....	1410	4640	950
Jan. 22.....	--	2620	550
Jan. 23.....	--	3920	650
Jan. 24.....	--	1810	460
Jan. 25.....	--	966	240
Feb. 15.....	--	155	85
Feb. 24.....	--	1340	200
Feb. 25.....	--	666	140
Feb. 26.....	--	2620	500
Feb. 27.....	--	1160	220
Feb. 28.....	0900	2280	480
Feb. 28.....	1500	1560	450
Feb. 29.....	0800	1980	420
Feb. 29.....	1600	1440	380
Mar. 1.....	--	882	300
Mar. 2.....	0730	6380	900
Mar. 2.....	1630	3030	550
Mar. 3.....	0800	7480	1200
Mar. 3.....	1600	5180	750
Mar. 4.....	--	3270	380
Mar. 13.....	--	460	140
Mar. 14.....	--	381	110
Mar. 15.....	--	294	100
Mar. 16.....	--	240	100
Mar. 17.....	--	244	100
Mar. 18.....	--	213	85
Mar. 19.....	--	172	85
Mar. 20.....	--	166	80
Mar. 21.....	--	178	75
Mar. 22.....	--	469	130
Mar. 25.....	--	1330	220
Mar. 27.....	--	582	130
Mar. 28.....	--	457	110
Apr. 2.....	--	160	80
Apr. 3.....	--	126	65
Apr. 4.....	--	121	65
Apr. 5.....	--	139	65
Apr. 6.....	--	441	130
Apr. 7.....	--	596	150
Apr. 12.....	--	585	150
Apr. 13.....	--	375	120
Apr. 14.....	--	484	140
Apr. 15.....	--	602	100
Apr. 19.....	--	223	85
Apr. 20.....	--	208	80
Apr. 23.....	--	194	95
Apr. 24.....	--	192	95
Apr. 25.....	--	206	65
Apr. 27.....	--	79	55
Apr. 28.....	--	52	35
Apr. 29.....	--	40	30
Apr. 30.....	--	38	25
May 1.....	--	100	50
May 2.....	--	98	50
May 3.....	--	90	45
May 4.....	--	98	50
May 6.....	--	58	15
May 7.....	--	47	15
May 8.....	--	39	15
May 9.....	--	26	15
May 10.....	--	42	15
May 11.....	--	52	15
May 12.....	--	62	10
May 13.....	--	30	15
May 14.....	--	10	10
May 15.....	--	16	15
May 17.....	--	45	30
May 18.....	--	44	30
May 19.....	--	28	25
May 20.....	--	30	20
May 21.....	0900	30	20
May 21.....	1700	62	35
May 23.....	--	14	10
May 27.....	--	20	10
May 31.....	--	18	8
June 4.....	--	13	6
June 7.....	--	5	2
June 11.....	--	21	8
June 16.....	--	7	6
June 20.....	--	10	4
June 25.....	--	4	2
June 30.....	--	6	4
July 5.....	--	4	4
July 10.....	--	3	2
July 15.....	--	3	2
July 20.....	--	2	2
July 25.....	--	1	3
July 30.....	--	2	2
Aug. 5.....	--	3	2
Aug. 10.....	--	4	2
Aug. 15.....	--	6	2
Aug. 20.....	--	4	3
Aug. 25.....	--	4	2
Aug. 30.....	--	3	2
Sept. 5.....	--	7	2
Sept. 10.....	--	7	2
Sept. 15.....	--	7	3
Sept. 20.....	--	5	2
Sept. 25.....	--	23	15
Sept. 30.....	--	43	20

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.

LOCATION.--Lat 41°10'19", long 123°56'52", in SE¼NE¼ sec.16, T.9 N., R.2 E., Humboldt County, Redwood National Park (south boundary), at gaging station 50 ft upstream from small right-bank tributary, 8.6 miles southeast of Orick, and 17 miles upstream from mouth.

DRAINAGE AREA.--183 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1971-72 (partial-record station).
Sediment records: Water years 1971-72 (partial-record station).

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)
NOV.								
08-09	--	70	--	--	.01	.56	.72	.00
09...	0955	--	55	82	--	--	--	--

DATE	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)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TOTAL ORGANIC CARBON (C) (MG/L)
NOV.							
08-09	.37	.38	.11	.02	--	--	5.0
09...	--	--	--	--	890	6.5	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)
NOV.									
08...	1800	59	66	215	6.7	9.0	11.1	97	228
08...	2100	59	69	410	6.6	8.0	11.7	101	--
08...	2400	59	41	400	6.1	8.0	11.7	101	800
09...	0300	57	56	420	6.8	8.0	11.6	100	--
09...	0600	57	85	810	6.6	8.0	11.4	98	560
09...	0800	56	85	820	6.5	8.5	11.6	101	--
09...	1000	55	54	810	6.3	8.5	11.4	99	780
09...	1200	59	57	790	7.6	8.5	11.4	99	3700
09...	1400	79	61	760	6.3	9.0	11.4	100	--
09...	1600	106	72	660	6.3	9.5	11.1	98	--
09...	1730	216	49	570	5.8	9.5	11.2	99	--
APR.									
04...	1900	554	67	126	7.2	13.0	10.3	98	--
04...	2100	551	44	120	7.2	13.0	10.1	96	--
04...	2300	544	44	123	7.2	13.0	10.2	97	--
05...	0100	540	43	108	7.3	12.0	10.3	95	--
05...	0300	537	34	128	7.4	12.0	10.3	95	--
05...	0700	544	41	109	7.4	11.5	10.2	94	--
05...	0900	544	38	137	7.4	11.5	10.2	94	--
05...	1100	551	44	130	7.9	12.5	10.3	98	--
05...	1300	551	41	520	7.7	13.0	10.2	97	--
05...	1500	558	41	640	7.7	13.0	10.0	95	--
05...	1700	586	41	590	7.0	13.0	10.0	95	--
05...	1900	634	39	570	7.4	12.5	9.9	93	--

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.--Continued

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
SEP.									
26...	0150	.00	2.3	.00	.00	.00	.20	1.2	.00
26...	0230	.00	.5	.00	.00	.00	.15	1.3	.00

DATE	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
SEP.									
26...	.00	.00	.00	.00	.00	.00	.00	.39	.07
26...	.00	.00	.00	.00	.00	.00	.00	.09	.04

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TEMPER-ATURE (DEG C)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
NOV.									
09...	1035	9.0	57	4	.62	--	--	--	--
JAN.									
18...	1415	7.0	808	231	504	--	--	--	--
25...	1455	7.0	4200	1760	20000	19	28	43	58
MAR.									
01...	1410	9.0	4050	1720	18800	18	21	31	42
APR.									
10...	1300	--	750	1270	2570	21	25	40	56
JUNE									
15...	1440	17.0	113	12	3.7	--	--	--	--

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. FALL DIAM. % FINER THAN 1.00 MM
NOV.									
09...	--	--	--	--	--	--	--	--	--
JAN.									
18...	--	--	99	--	99	--	100	--	--
25...	69	72	--	76	--	88	--	99	100
MAR.									
01...	51	59	--	68	--	82	--	98	100
APR.									
10...	71	--	80	--	98	--	100	--	--
JUNE									
15...	--	--	--	--	--	--	--	--	--

11482500 REDWOOD CREEK AT ORICK, CALIF.

LOCATION.--Lat 41°17'20", long 124°03'30", in NE¼ sec.4, T.10 N., R.1 E., Humboldt County, at gaging station at bridge on U.S. Highway 101 at Orick, 0.9 mile downstream from Prairie Creek.

DRAINAGE AREA.--278 sq mi.

PERIOD OF RECORD.--Chemical analyses: November 1958 to September 1966.
Water temperatures: October 1965 to September 1972.
Sediment records: Water years 1955-56 (partial-record station), March 1970 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Minimum, 5.0°C Jan. 4-6, 27, Feb. 2.
Sediment concentrations: Maximum daily, 8,840 mg/l Mar. 3; minimum daily, 5 mg/l on many days.
Sediment discharge: Maximum daily, 861,000 tons Mar. 2; minimum daily, 0.22 ton Sept. 16-18.

Period of record:
Water temperatures: Maximum (1969-71), Maximum, 23.0°C Sept. 18, 1970; minimum, 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.
Sediment discharge: Maximum daily, 861,000 tons Mar. 2, 1972; minimum daily, 0.03 ton Oct. 7, 8, 11, 12, 1970.

REMARKS.--No thermograph record Nov. 18 to Dec. 3, recorder stopped; Aug. 5 to Sept. 30, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	287	26	20	124	6	2.0	2400	400	2590
2	179	14	6.8	115	6	1.9	2390	418	2700
3	134	9	3.3	103	6	1.7	2750	782	6190
4	98	8	2.1	95	6	1.5	2600	1200	8420
5	75	8	1.6	90	6	1.5	5140	1870	37300
6	73	7	1.4	85	6	1.4	12800	4050	177000
7	73	7	1.4	88	6	1.4	4960	625	8370
8	66	7	1.2	95	6	1.5	3510	660	6250
9	62	6	1.0	221	125	217	4820	1960	27100
10	60	6	.97	2280	774	4820	4880	1280	16900
11	57	6	.92	1340	220	796	4150	680	7620
12	55	6	.89	908	110	270	4560	830	10200
13	55	6	.89	2490	782	6040	3830	460	4760
14	53	6	.86	2070	260	1450	3960	436	4730
15	53	6	.86	1130	100	305	3960	338	3610
16	55	6	.89	771	56	117	3090	272	2270
17	50	6	.81	602	32	52	2670	257	1850
18	47	6	.76	510	19	26	2380	254	1630
19	47	6	.76	450	10	12	2100	250	1420
20	112	20	6.0	400	6	6.5	1820	244	1200
21	109	14	4.1	365	8	7.9	1720	237	1100
22	85	23	5.3	347	8	7.5	3590	340	3480
23	112	23	7.0	333	6	5.4	3540	199	1900
24	141	30	11	510	210	289	3640	297	3120
25	121	20	6.5	626	600	1010	3320	258	2310
26	100	14	3.8	4230	1640	27000	2640	205	1460
27	98	8	2.1	4480	900	10900	2210	200	1190
28	90	7	1.7	4470	1780	22200	1800	158	768
29	85	6	1.4	5400	1900	27700	1650	130	579
30	88	6	1.4	3880	790	8280	1490	100	402
31	115	6	1.9	--	--	--	1330	87	312
TOTAL	2835	--	99.61	38608	--	111524.2	105700	--	348731

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1200	68	220	1640	258	1140	7010	448	9850
2	1090	68	200	1620	220	962	34600	8760	861000
3	972	76	199	1450	205	803	29200	8840	760000
4	884	63	150	1500	132	535	10500	4500	128000
5	799	56	121	1610	130	565	5970	2480	40000
6	743	50	100	1390	144	540	3990	1810	19500
7	722	37	72	1260	145	493	2910	1440	11300
8	668	23	41	1120	125	378	2270	1200	7350
9	650	22	39	1010	135	368	1990	870	4670
10	614	21	35	910	125	307	1960	787	4230
11	620	18	30	830	112	251	1990	960	5160
12	1020	60	169	741	108	216	2080	816	4620
13	932	44	111	741	110	220	2520	898	6220
14	799	33	71	755	108	220	1940	605	3170
15	729	29	57	838	106	240	1620	495	2170
16	674	28	51	720	96	187	1380	430	1600
17	662	27	48	644	86	150	1200	385	1250
18	1130	180	593	590	84	134	1110	350	1050
19	1930	317	1640	596	99	171	990	315	842
20	1700	170	780	1250	143	486	886	280	670
21	15700	4250	205000	998	90	243	830	250	560
22	40100	6040	661000	2150	583	3700	1610	380	1720
23	23500	3340	240000	3600	801	8470	1680	265	1200
24	9990	1540	41500	5650	1240	19000	2240	515	3940
25	6460	2030	35600	4650	320	4020	2570	510	3540
26	4390	1440	17100	7700	1560	33500	1800	370	1800
27	3490	1130	10600	6040	471	8100	1440	325	1260
28	2840	975	7480	11200	2690	82500	1210	310	1010
29	2390	760	4900	9520	1050	27000	1050	295	836
30	2140	490	2830	--	--	--	950	275	705
31	1890	345	1760	--	--	--	878	258	612
TOTAL	131428	--	1232497	72723	--	194899	132374	--	1889835

	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	830	236	529	548	85	126	151	8	3.3
2	854	215	496	515	88	122	146	9	3.5
3	769	190	394	495	68	91	138	10	3.7
4	720	170	330	470	63	80	132	9	3.2
5	713	145	279	465	65	82	129	8	2.8
6	1320	349	1270	460	53	66	126	9	3.1
7	1750	378	1800	490	61	81	123	5	1.7
8	1670	280	1270	455	66	81	121	8	2.6
9	1500	200	810	435	39	46	322	60	52
10	1260	160	544	412	42	47	282	42	32
11	1180	138	440	399	32	34	289	31	24
12	2290	402	3020	381	30	31	238	12	7.7
13	2430	390	2560	367	29	29	211	10	5.7
14	1800	280	1360	332	30	27	192	9	4.7
15	1490	210	845	328	23	20	175	8	3.8
16	1290	180	627	408	31	34	169	7	3.2
17	1140	160	492	445	35	42	166	7	3.1
18	1030	155	431	354	30	29	163	6	2.6
19	974	150	394	284	28	21	157	6	2.5
20	886	142	340	280	24	18	151	6	2.4
21	748	138	279	296	30	24	145	6	2.3
22	720	128	249	236	31	20	142	6	2.3
23	966	210	548	243	18	12	136	5	1.8
24	886	130	311	229	19	12	133	5	1.8
25	755	120	245	218	18	11	128	6	2.1
26	713	110	212	201	16	8.7	123	6	2.0
27	671	100	181	190	16	8.2	118	7	2.2
28	626	95	161	172	13	6.0	113	8	2.4
29	608	90	148	197	14	7.4	108	8	2.3
30	578	90	140	175	12	5.7	100	8	2.2
31	--	--	--	160	12	5.2	--	--	--
TOTAL	33167	--	20705	10640	--	1227.2	4827	--	189.0

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	95	8	2.1	48	6	.78	23	5	.31
2	93	7	1.8	48	6	.78	22	5	.30
3	90	7	1.7	47	6	.76	22	5	.30
4	85	7	1.6	44	6	.71	22	5	.30
5	83	7	1.6	44	6	.71	22	5	.30
6	83	7	1.6	43	6	.70	22	5	.30
7	83	6	1.3	41	6	.66	22	5	.30
8	78	6	1.3	39	6	.63	21	5	.28
9	78	6	1.3	38	6	.62	20	5	.27
10	74	6	1.2	37	6	.60	19	5	.26
11	74	6	1.2	35	6	.57	19	5	.26
12	72	6	1.2	34	6	.55	19	5	.26
13	70	7	1.3	33	6	.53	18	5	.24
14	70	7	1.3	32	6	.52	18	5	.24
15	66	7	1.2	31	6	.50	17	5	.23
16	64	7	1.2	31	6	.50	16	5	.22
17	62	7	1.2	33	6	.53	16	5	.22
18	60	7	1.1	33	6	.53	16	5	.22
19	60	7	1.1	33	6	.53	19	6	.31
20	59	7	1.1	32	6	.52	20	6	.32
21	59	7	1.1	31	6	.50	20	6	.32
22	57	7	1.1	29	6	.47	24	7	.45
23	56	7	1.1	28	5	.38	24	7	.45
24	56	7	1.1	26	5	.35	22	6	.36
25	56	7	1.1	28	5	.38	21	6	.34
26	56	6	.91	27	5	.36	34	7	.64
27	54	6	.87	27	5	.36	62	10	1.7
28	53	6	.86	27	5	.36	66	10	1.8
29	51	6	.83	25	5	.34	45	8	.97
30	51	6	.83	24	5	.32	35	7	.66
31	50	6	.81	24	5	.32	--	--	--
TOTAL	2098	--	38.01	1052	--	16.37	746	--	13.13

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 536198
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 3799774.52

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.										
13...	0930	9.0	2170	1270	7440	33	46	58	71	82
26...	0800	11.0	924	721	1800	39	53	64	79	89
26...	1350	11.0	4900	2390	31600	25	40	55	75	91
26...	1900	10.0	9550	2440	62900	28	42	55	74	90
27...	0745	9.0	4710	941	12000	36	50	59	69	77
29...	0830	--	5510	1430	21300	20	31	38	55	70
DEC.										
03...	1310	8.0	2630	327	2320	27	41	50	60	68
03...	1700	9.0	2940	868	6890	19	29	44	56	62
06...	0715	8.0	17200	5600	260000	28	36	52	66	81
07...	1630	8.0	4660	493	6200	41	52	66	80	90
08...	1615	7.5	3350	688	6220	26	33	43	52	59
12...	1330	7.5	4770	1030	13300	23	32	40	49	55
16...	0945	6.0	3060	274	2260	--	--	--	--	--
31...	1030	6.0	1310	93	329	--	--	--	--	--
JAN.										
03...	0915	7.0	932	80	201	--	--	--	--	--
18...	1315	9.0	1120	310	937	17	36	53	69	80
22...	1320	9.5	44200	7060	843000	26	43	56	75	92
22...	1610	9.5	44700	6750	815000	33	42	59	77	93
24...	1110	9.0	9780	1390	36700	28	39	58	76	93
24...	1640	9.0	8400	1470	33300	29	43	62	79	93
25...	0900	8.0	6800	2190	40200	12	22	31	44	64
27...	0830	5.0	3630	522	5120	15	29	52	72	86
FEB.										
02...	0845	5.0	1610	218	948	--	--	--	--	--
MAR.										
03...	1550	10.0	21000	7500	425000	16	23	34	47	60
05...	1110	10.5	5930	2460	39400	19	30	40	54	68
06...	1230	9.0	3920	1820	19300	27	31	47	63	75

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.									
13...	--	94	--	95	--	97	--	98	100
26...	--	99	--	100	--	--	--	--	--
26...	--	100	--	--	--	--	--	--	--
26...	--	100	--	--	--	--	--	--	--
27...	--	99	--	100	--	--	--	--	--
29...	80	--	86	--	99	--	100	--	--
DEC.									
03...	74	--	77	--	85	--	100	--	--
03...	--	94	--	97	--	100	--	--	--
06...	90	--	94	--	100	--	--	--	--
07...	--	99	--	99	--	100	--	--	--
08...	--	70	--	81	--	97	--	100	--
12...	70	--	84	--	99	--	100	--	--
16...	--	79	--	83	--	90	--	95	100
31...	--	86	--	88	--	100	--	--	--
JAN.									
03...	--	67	--	68	--	71	--	88	100
18...	--	99	--	99	--	100	--	--	--
22...	99	--	100	--	--	--	--	--	--
22...	--	99	--	100	--	--	--	--	--
24...	--	99	--	99	--	100	--	--	--
24...	--	99	--	100	--	--	--	--	--
25...	72	--	80	--	97	--	100	--	--
27...	--	99	--	100	--	--	--	--	--
FEB.									
02...	--	98	--	99	--	100	--	--	--
MAR.									
03...	70	--	83	--	96	--	100	--	--
05...	80	--	84	--	95	--	100	--	--
06...	86	--	93	--	99	--	100	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FT OF BED SURFACE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
MAR.								
05...	1315	10.5	5	5700	188	1040	2	6

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
MAR.							
05...	10	23	44	66	86	97	100

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 mile downstream from Bogus Creek, 0.6 mile downstream from Iron Gate Dam, and 5.9 miles northeast of Hornbrook.

DRAINAGE AREA.--4,630 sq mi, approximately (not including Lost River and Klamath Lake basins).

PERIOD OF RECORD.--Chemical analyses: October 1961 to September 1972.
Water temperatures: October 1962 to September 1972.

EXTREMES, 1971-72:
Water temperatures: Maximum, 23.0°C July 17-19, Aug. 8; minimum, 0.5°C on many days during December and 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.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 NITRATE (N) (MG/L)
OCT.												
12...	1000	2830	--	--	15	--	93	0	76	--	3.6	.88
NOV.												
16...	1215	3100	--	--	17	--	78	0	64	--	3.6	1.0
DEC.												
06...	1200	4310	--	--	--	--	--	--	--	--	--	--
JAN.												
04...	1130	3220	--	--	--	--	--	--	--	--	--	--
FEB.												
02...	0935	3420	--	--	13	--	72	0	59	--	1.5	.88
MAR.												
06...	1130	13900	--	--	13	--	68	0	56	--	3.3	.70
APR.												
05...	1010	4540	--	--	--	--	--	--	--	--	--	--
MAY												
17...	0645	2670	--	--	18	--	82	0	67	--	4.5	.23
JUNE												
16...	0755	785	11	6.2	17	2.8	82	0	67	14	3.9	.11
JULY												
18...	1530	719	--	--	16	--	84	0	69	--	4.3	.09
AUG.												
09...	0950	1030	--	--	--	--	--	--	--	--	--	--
SEP.												
08...	0700	1340	--	--	17	--	89	0	73	--	5.1	--

DATE	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)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.												
12...	--	--	--	63	0	--	.8	188	7.9	14.0	--	0
NOV.												
16...	--	--	--	58	0	--	1.0	190	7.3	6.0	--	100
DEC.												
06...	--	--	--	--	--	--	--	--	--	5.0	5	--
JAN.												
04...	--	--	--	--	--	--	--	--	--	1.5	6	--
FEB.												
02...	--	--	--	47	0	--	.8	152	7.2	2.5	24	100
MAR.												
06...	--	--	--	55	0	--	.8	150	7.1	6.0	36	0
APR.												
05...	--	--	--	--	--	--	--	--	--	9.0	8	--
MAY												
17...	--	--	--	54	0	--	1.1	183	7.6	14.0	4	100
JUNE												
16...	119	.16	252	53	0	40	1.0	176	8.0	20.0	2	100
JULY												
18...	--	--	--	54	0	--	.9	181	7.5	23.0	1	100
AUG.												
09...	--	--	--	--	--	--	--	--	--	21.5	1	--
SEP.												
08...	--	--	--	57	0	--	1.0	187	7.8	18.0	1	100

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
12...	1000	2830	185	7.2	14.0	7.6
NOV.						
16...	1215	3100	177	7.2	6.0	10.8
DEC.						
06...	1200	4310	200	7.2	5.0	11.5
JAN.						
04...	1130	3220	199	7.4	1.5	13.1
FEB.						
02...	0935	3420	148	7.3	2.5	11.6
MAR.						
06...	1130	13900	152	7.3	6.0	12.7
APR.						
05...	1010	4540	143	8.3	9.0	11.3
MAY						
17...	0645	2670	192	8.0	14.0	9.6
JUNE						
16...	0755	785	164	8.4	20.0	9.5
JULY						
18...	1530	719	--	8.3	23.0	9.8
AUG.						
09...	0950	1030	166	8.1	21.5	9.4
SEP.						
08...	0700	1340	174	7.8	18.0	7.1

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	14.0	9.0	9.0	4.5	4.5	0.5	0.5	2.0	2.0	6.0	5.5
2	14.0	14.0	9.0	8.5	4.5	4.5	0.5	0.5	2.0	1.5	6.0	5.5
3	14.0	14.0	8.5	8.0	4.5	4.5	0.5	0.5	1.5	1.5	5.5	5.5
4	14.0	14.0	8.0	8.0	4.5	4.0	0.5	0.5	1.5	1.5	5.5	5.5
5	14.0	14.0	8.0	8.0	4.0	4.0	0.5	0.5	1.5	1.5	5.5	5.5
6	14.5	14.0	8.0	7.5	4.0	4.0	0.5	0.5	1.5	1.5	6.0	5.5
7	14.5	14.0	7.5	7.5	4.0	4.0	0.5	0.5	2.0	1.5	6.5	5.5
8	14.0	14.0	7.5	6.5	4.0	4.0	0.5	0.5	2.0	2.0	6.5	6.5
9	14.0	14.0	6.5	6.0	4.0	3.5	0.5	0.5	2.0	2.0	7.0	6.5
10	14.0	14.0	6.0	6.0	3.5	3.5	0.5	0.5	2.0	2.0	7.5	7.0
11	14.0	14.0	6.0	6.0	3.5	3.5	0.5	0.5	2.0	2.0	8.0	7.5
12	14.0	13.5	6.0	6.0	3.5	3.5	0.5	0.5	2.5	2.0	8.5	8.0
13	14.0	13.5	6.0	5.5	3.5	3.0	0.5	0.5	2.5	2.5	9.0	8.5
14	14.0	13.5	5.5	5.5	3.0	3.0	0.5	0.5	2.5	2.5	9.0	9.0
15	13.5	13.0	5.5	5.5	3.0	2.5	1.0	0.5	3.0	2.5	9.5	9.0
16	13.0	13.0	5.5	5.5	2.5	1.5	1.0	1.0	3.5	3.0	10.0	9.5
17	13.0	13.0	5.5	5.5	1.5	1.0	1.0	1.0	3.5	3.5	10.0	9.5
18	13.0	13.0	5.5	5.5	1.0	0.5	1.0	1.0	3.5	3.5	10.5	10.0
19	13.0	12.5	5.5	5.5	0.5	0.5	1.0	1.0	4.0	3.5	10.5	10.5
20	12.5	12.5	5.5	5.5	0.5	0.5	1.0	1.0	4.5	4.0	10.5	10.5
21	12.5	12.0	5.5	5.5	1.0	0.5	2.5	1.0	4.5	4.5	11.0	10.5
22	12.0	12.0	5.5	5.5	1.5	1.0	3.5	2.5	4.5	4.5	10.5	10.5
23	12.0	11.5	5.5	5.0	1.0	1.0	2.5	2.5	4.5	4.5	10.5	10.5
24	11.5	11.5	5.0	5.0	1.0	1.0	2.5	2.0	5.0	4.5	10.5	10.5
25	11.5	11.5	5.0	5.0	1.0	0.5	2.5	2.5	5.0	5.0	10.5	10.0
26	11.5	11.0	5.0	4.5	0.5	0.5	2.5	2.5	5.5	5.0	10.0	10.0
27	11.0	10.5	4.5	4.5	0.5	0.5	2.5	2.5	5.5	5.5	10.5	10.0
28	10.5	10.0	4.5	4.5	0.5	0.5	2.5	2.5	6.0	5.5	10.0	10.0
29	10.0	9.5	4.5	4.5	0.5	0.5	2.5	2.5	6.0	6.0	10.0	9.0
30	9.5	9.5	4.5	4.5	0.5	0.5	2.5	2.0	---	---	9.0	9.0
31	9.5	9.0	---	---	0.5	0.5	2.0	2.0	---	---	9.0	9.0
MONTH	14.5	9.0	9.0	4.5	4.5	0.5	3.5	0.5	6.0	1.5	11.0	5.5

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	12.5	11.5	17.5	16.5	20.5	20.0	22.0	21.5	20.5	20.0
2	9.5	9.5	13.0	12.0	17.0	16.5	21.0	20.0	22.0	21.0	20.0	19.5
3	9.5	9.5	14.0	12.5	17.0	16.5	21.0	20.5	21.5	21.0	19.5	19.5
4	9.5	9.5	14.0	13.0	17.5	16.5	20.5	20.0	21.5	21.0	20.0	19.5
5	10.0	9.5	15.0	13.0	17.5	17.0	21.0	20.0	21.5	21.0	20.0	20.0
6	10.0	10.0	14.5	13.5	18.5	17.5	22.0	20.5	22.0	21.0	20.0	19.5
7	10.0	10.0	14.0	13.5	20.5	17.5	21.5	20.5	22.0	21.5	20.0	19.5
8	10.0	10.0	14.0	13.5	20.5	17.5	21.5	21.0	23.0	22.0	19.5	19.5
9	10.5	10.0	14.5	13.5	17.5	17.5	21.5	21.0	22.5	21.5	19.5	19.5
10	10.5	10.5	14.5	13.5	18.0	17.5	21.5	21.0	22.0	22.0	19.5	19.0
11	10.5	10.5	14.5	14.0	19.5	17.5	21.5	21.0	22.5	22.0	19.0	18.5
12	10.5	10.0	14.5	14.0	20.0	18.5	22.0	21.0	22.5	21.5	18.5	18.5
13	10.5	10.0	14.5	14.5	20.5	19.0	22.0	21.0	22.0	21.5	18.5	18.5
14	11.0	10.5	15.5	14.5	21.0	19.5	22.0	21.5	21.5	21.0	18.5	18.0
15	11.0	10.5	16.0	15.0	21.5	20.0	22.0	21.5	21.0	20.5	18.0	18.0
16	11.0	11.0	16.0	15.0	21.5	20.0	22.5	21.5	20.5	19.5	18.5	18.0
17	11.0	10.5	15.0	14.5	21.5	20.0	23.0	22.0	19.5	19.5	18.5	18.0
18	11.0	10.5	15.0	14.5	21.5	20.0	23.0	21.5	20.0	19.5	18.0	17.0
19	10.5	10.0	14.5	14.5	22.0	20.5	23.0	22.0	20.0	19.5	17.0	17.0
20	11.0	10.0	14.5	14.0	21.5	19.5	22.5	22.0	19.5	19.5	17.0	17.0
21	11.0	10.5	14.0	14.0	19.5	18.0	22.0	21.5	19.5	19.5	17.0	16.5
22	11.0	10.5	14.5	14.0	19.5	18.5	22.0	21.5	20.5	19.5	16.5	16.5
23	11.0	10.0	15.5	14.5	19.5	18.5	22.0	21.5	20.0	19.5	16.5	16.0
24	10.5	10.0	15.5	15.0	20.0	18.5	21.5	21.5	20.5	20.0	16.0	16.0
25	11.5	10.0	15.0	15.0	20.0	18.5	21.5	21.0	20.0	19.5	16.0	15.5
26	11.5	11.0	15.5	15.0	19.5	18.5	22.0	21.0	20.0	20.0	15.5	15.5
27	11.5	11.0	15.5	15.0	19.0	19.0	22.0	21.0	20.0	20.0	15.5	15.5
28	11.5	11.0	15.5	15.0	20.0	19.0	22.0	21.5	21.0	20.0	15.5	15.5
29	12.0	11.5	16.5	15.0	20.0	19.0	21.5	21.0	21.0	20.5	15.5	15.0
30	12.0	11.5	16.5	16.0	20.5	19.5	21.5	20.5	20.5	20.0	15.0	15.0
31	---	---	18.0	16.5	---	---	22.0	20.5	20.5	20.0	---	---
MONTH	12.0	9.0	18.0	11.5	22.0	16.5	23.0	20.0	23.0	19.5	20.5	15.0

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 mile upstream from mouth, and 7 miles north of Yreka.

DRAINAGE AREA.--793 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1958 to September 1971, water year 1972 (partial-record station).
Water temperatures: June 1965 to September 1972.
Sediment records: Water years 1955-56, 1958-62 (partial-record station).

EXTREMES, 1971-72:
Water temperatures: Maximum, 31.5°C July 15, 16; minimum, freezing point Jan. 30, 31.

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. Clock stopped Nov. 6-17, Dec. 17 to Jan. 4; range in temperature, 3.5°C to 8.0°C, and 1.0°C to 4.0°C, respectively.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 NITRATE (N) (MG/L)
NOV.												
16...	1305	230	--	--	33	--	257	8	224	--	21	--
JAN.												
04...	1215	200	--	--	--	--	--	--	--	--	--	--
MAR.												
06...	1200	852	11	30	22	2.2	243	0	199	8.2	10	.41
MAY												
17...	0730	108	--	--	--	--	--	--	--	--	--	--
JUNE												
16...	0925	81	34	40	48	3.4	339	13	300	24	24	.09
JULY												
18...	1630	16	--	--	--	--	--	--	--	--	--	--
SEP.												
08...	0745	40	--	--	--	--	--	--	--	--	--	--

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)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
NOV.												
16...	--	--	--	188	0	--	1.0	471	8.5	6.5	--	500
JAN.												
04...	--	--	--	--	--	--	--	--	--	1.5	6	--
MAR.												
06...	202	.27	465	174	0	24	.8	410	8.3	10.0	43	300
MAY												
17...	--	--	--	--	--	--	--	--	--	13.0	3	--
JUNE												
16...	351	.48	76.8	250	0	29	1.3	597	8.5	19.5	1	600
JULY												
18...	--	--	--	--	--	--	--	--	--	29.0	4	--
SEP.												
08...	--	--	--	--	--	--	--	--	--	16.0	0	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
NOV.						
16...	1305	230	440	8.4	6.5	13.1
JAN.						
04...	1215	200	459	8.1	1.5	13.6
MAR.						
06...	1200	852	376	8.0	10.0	10.3
MAY						
17...	0730	108	581	8.1	13.0	9.6
JUNE						
16...	0925	81	595	8.4	19.5	9.5
JULY						
18...	1630	16	600	8.4	29.0	7.4
SEP.						
08...	0745	40	639	8.0	16.0	8.9

11517500 SHASTA RIVER NEAR YREKA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	8.5	9.5	7.5	6.0	5.0	---	---	2.5	0.5	6.0	5.0
2	13.5	9.5	8.5	6.5	5.5	4.5	---	---	2.5	0.5	7.0	5.5
3	15.0	10.5	8.0	6.0	5.0	4.0	---	---	3.5	1.0	8.5	6.5
4	15.5	12.0	8.0	6.0	5.0	4.0	---	---	4.5	3.0	10.0	8.0
5	16.0	12.0	8.0	6.5	7.0	5.0	2.5	1.0	5.5	4.0	10.0	8.5
6	16.5	13.0	---	---	7.0	5.5	3.0	1.5	6.0	4.5	10.5	8.5
7	16.5	13.0	---	---	5.5	4.0	4.0	3.0	6.0	4.0	10.0	7.5
8	16.5	13.0	---	---	5.0	4.5	4.0	2.5	6.5	4.5	10.5	8.0
9	16.5	13.0	---	---	6.0	5.0	4.0	2.5	6.5	4.0	10.0	9.0
10	16.5	13.0	---	---	5.0	4.5	5.0	3.0	6.5	4.0	9.5	8.5
11	16.0	13.0	---	---	4.5	4.0	5.0	3.5	7.5	5.0	10.5	8.5
12	15.5	12.5	---	---	4.5	3.5	6.5	5.0	7.5	5.0	11.5	10.0
13	15.0	12.0	---	---	4.5	3.0	6.5	5.0	8.0	6.0	11.5	10.0
14	13.5	11.0	---	---	5.0	4.0	5.0	3.5	7.0	6.0	12.5	9.5
15	11.5	9.0	---	---	5.0	4.5	4.0	2.5	8.0	6.0	13.5	10.0
16	10.5	8.0	---	---	4.5	3.5	4.0	2.5	9.0	6.5	14.0	10.5
17	9.5	7.5	---	---	---	---	6.0	4.0	9.0	6.5	14.5	11.0
18	10.5	8.5	7.0	6.0	---	---	7.0	6.0	7.5	6.0	14.0	11.5
19	9.5	9.0	7.0	5.5	---	---	7.0	6.0	9.0	7.0	12.0	10.0
20	11.0	8.5	8.0	7.0	---	---	7.0	6.0	10.0	7.5	12.0	8.5
21	11.0	7.5	9.0	7.0	---	---	6.5	5.5	9.5	7.0	13.0	10.0
22	11.0	9.5	9.0	7.5	---	---	5.5	5.0	7.5	5.5	11.5	9.0
23	11.0	10.0	8.0	7.5	---	---	5.0	3.0	6.5	5.0	10.5	8.0
24	11.5	9.5	8.0	7.0	---	---	3.0	2.0	7.0	5.5	10.5	8.5
25	11.0	9.0	7.5	7.0	---	---	3.0	2.0	7.0	5.5	8.5	7.0
26	10.0	8.5	7.0	6.5	---	---	2.5	1.0	9.0	6.0	9.0	6.5
27	9.0	7.5	7.0	6.5	---	---	2.5	1.0	9.0	7.5	10.5	6.5
28	8.0	6.0	7.0	6.5	---	---	2.5	0.5	9.0	7.0	11.5	7.5
29	7.0	4.5	7.0	6.0	---	---	2.0	0.5	7.0	5.5	12.0	7.5
30	7.0	6.0	7.0	6.0	---	---	2.0	0.0	---	---	13.0	8.0
31	8.5	6.5	---	---	---	---	2.0	0.0	---	---	11.5	9.5
MONTH	16.5	4.5	---	---	---	---	7.0	0.0	10.0	0.5	14.5	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.5	10.0	19.5	11.0	25.5	19.0	29.5	21.5	27.0	19.5	25.5	23.0
2	14.0	10.5	21.0	13.5	25.5	19.5	29.5	21.5	27.0	18.5	25.0	20.0
3	14.5	12.0	22.0	14.0	25.0	18.0	29.5	22.5	28.0	19.0	26.0	19.5
4	15.5	12.0	22.5	15.0	26.5	18.0	31.0	23.0	28.5	20.5	23.0	20.0
5	15.0	12.0	22.0	16.0	27.0	19.5	29.0	22.5	29.0	21.0	23.5	19.0
6	14.5	11.0	21.5	15.5	25.5	21.0	29.5	21.5	30.0	21.5	22.5	17.0
7	13.0	9.5	17.5	14.0	25.0	21.5	28.0	20.0	30.0	22.5	22.5	16.0
8	12.5	9.5	17.0	13.0	24.0	21.5	26.0	18.5	28.0	22.5	22.5	16.0
9	12.0	8.5	20.0	13.0	22.5	20.0	26.5	18.5	27.0	22.5	21.0	15.0
10	12.0	9.0	20.5	13.5	20.5	15.5	26.5	18.0	28.0	22.0	19.5	14.0
11	11.5	9.5	21.5	14.0	20.5	15.0	28.5	20.0	27.0	22.0	18.0	13.0
12	11.0	8.5	23.0	15.0	23.0	15.5	30.0	21.5	25.5	19.0	19.0	12.5
13	10.5	7.0	23.5	16.5	25.0	17.0	29.5	21.0	25.5	17.5	19.5	13.0
14	13.5	7.5	23.5	18.0	26.0	19.0	30.5	21.5	22.5	18.0	20.0	13.5
15	15.0	9.5	23.5	17.0	26.5	20.0	31.5	23.0	19.5	16.5	20.5	14.0
16	15.0	11.0	19.5	16.5	25.5	19.0	31.5	23.0	18.0	15.5	20.5	14.5
17	12.0	9.5	18.0	14.5	26.0	18.5	31.0	22.5	21.5	14.5	20.5	15.0
18	13.0	8.0	18.0	13.0	26.5	19.0	30.0	22.0	20.5	15.5	18.5	14.5
19	14.5	8.0	18.0	13.5	27.0	19.0	28.0	20.5	23.0	16.5	18.0	14.0
20	16.0	9.5	16.0	13.5	27.0	23.0	26.5	18.5	23.0	17.5	17.5	12.5
21	17.5	11.5	13.5	12.5	27.5	23.5	27.0	18.0	24.5	18.0	17.0	13.5
22	17.5	11.0	16.5	13.0	27.5	23.0	27.5	18.0	25.0	17.5	18.0	13.5
23	14.5	12.0	20.5	15.5	26.0	22.0	27.5	20.0	25.0	17.0	17.0	13.5
24	14.5	10.5	21.5	15.0	25.5	18.0	28.0	20.5	24.5	18.0	16.5	12.0
25	16.5	10.0	22.0	16.0	26.0	18.0	27.5	20.0	25.0	18.0	14.0	12.0
26	17.5	10.5	23.5	17.0	26.5	18.0	27.0	20.0	26.0	22.5	14.0	12.0
27	18.5	12.0	25.0	18.5	28.5	19.5	28.0	20.0	27.0	19.5	16.5	13.0
28	16.0	11.0	25.5	19.5	29.5	20.5	28.0	20.5	27.0	20.0	16.5	13.0
29	15.5	9.5	25.0	19.0	29.5	21.0	25.5	21.5	27.0	20.5	17.5	13.0
30	17.5	9.0	25.5	18.5	30.0	21.0	27.5	19.5	27.0	20.0	18.0	13.5
31	---	---	26.0	19.5	---	---	27.5	19.5	26.0	19.5	---	---
MONTH	18.5	7.0	26.0	11.0	30.0	15.0	31.5	18.0	30.0	14.5	26.0	12.0

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 mile upstream from Bittenbender Creek, 1.4 miles downstream from Grider Creek, and 2.2 miles west of Seiad Valley.
DRAINAGE AREA.--6,940 sq mi, 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 September 1972.
Sediment records: Water years 1955-56 (partial-record station).
EXTREMES.--1971-72:
Water temperatures: Maximum, 27.5°C July 16, 17; minimum, 0.5°C Jan. 3-5, and sometime during period Jan. 5-28.
Period of record:
Water temperatures: Maximum, 29.5°C July 26, 1970; minimum (1963-64, 1966-72), 0.5°C on several days in 1967, 1968, and 1971-72.
REMARKS.--Clock stopped Jan. 5-28, May 13 to June 11; range in temperature, 0.5°C to 5.5°C, and 11.5°C to 19.5°C, respectively.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.0	11.0	9.0	8.5	5.5	5.0	1.0	1.0	2.0	2.0	5.5	4.5
2	14.0	11.5	8.5	8.0	5.0	5.0	1.0	1.0	2.0	2.0	6.0	5.0
3	15.0	12.0	8.0	7.5	5.0	4.5	1.0	0.5	2.0	2.0	7.0	6.0
4	15.5	13.0	8.0	7.5	5.0	4.5	0.5	0.5	3.5	2.0	7.0	6.5
5	15.5	13.0	9.0	7.5	6.0	5.0	---	0.5	4.0	3.5	7.0	6.5
6	16.0	13.5	7.5	7.0	6.0	5.0	---	---	4.0	4.0	7.0	6.5
7	16.0	13.5	7.5	7.0	5.0	4.5	---	---	4.5	4.0	7.5	6.5
8	16.0	14.0	7.0	6.5	5.0	4.5	---	---	4.5	4.5	8.0	7.0
9	16.0	14.0	6.5	6.5	5.0	5.0	---	---	4.5	4.0	8.0	7.5
10	15.5	14.0	7.5	6.5	5.0	4.5	---	---	4.0	4.0	8.0	7.5
11	15.0	14.0	8.5	7.5	4.5	3.5	---	---	4.5	4.0	8.5	7.5
12	15.0	14.0	8.0	7.5	3.5	3.5	---	---	5.0	4.5	9.0	8.5
13	14.5	13.5	7.5	6.5	3.5	3.5	---	---	5.5	5.0	9.0	8.5
14	14.0	12.0	6.5	6.0	3.5	3.5	---	---	5.5	5.0	9.5	8.5
15	12.5	11.5	6.5	5.5	3.5	3.5	---	---	5.5	5.0	10.0	8.0
16	12.0	10.5	6.0	5.5	3.5	3.0	---	---	5.5	5.5	10.0	9.0
17	11.0	10.5	6.0	5.5	3.0	2.5	---	---	6.5	5.5	10.5	9.5
18	12.0	11.0	6.5	5.5	2.5	2.0	---	---	6.0	5.5	10.5	9.5
19	12.0	11.5	6.0	5.5	2.0	1.5	---	---	6.0	5.5	10.0	9.5
20	12.5	11.5	7.0	6.0	2.0	2.0	---	---	7.0	6.0	10.5	9.5
21	11.5	11.5	7.0	6.5	2.0	2.0	---	---	7.0	6.5	11.0	10.0
22	12.0	11.0	7.5	6.5	2.5	2.0	---	---	6.5	5.5	11.0	10.5
23	12.0	11.0	7.0	6.5	2.5	2.5	---	---	5.5	4.5	10.5	9.5
24	11.0	10.5	7.5	6.5	3.0	2.5	---	---	5.0	4.5	10.5	10.0
25	11.0	10.5	7.0	6.5	2.5	2.0	---	---	5.5	5.0	10.5	9.0
26	10.5	10.5	6.5	6.5	2.0	2.0	---	---	6.5	5.5	9.0	8.0
27	10.5	9.0	6.5	6.0	2.0	1.0	---	---	6.5	6.5	9.5	8.0
28	9.0	8.0	6.0	6.0	1.0	1.0	2.5	---	6.5	6.5	9.5	8.0
29	8.0	7.5	6.0	5.5	1.0	1.0	2.5	2.0	6.5	5.5	9.5	8.0
30	7.5	7.5	6.0	5.0	1.5	1.0	2.0	2.0	---	---	9.5	7.5
31	8.5	7.5	---	---	1.5	1.0	2.0	2.0	---	---	10.0	8.5
MONTH	16.0	7.5	9.0	5.0	6.0	1.0	---	---	7.0	2.0	11.0	4.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	12.5	10.5	---	---	25.0	20.5	23.5	20.0	23.5	20.5
2	10.5	9.0	13.5	11.5	---	---	25.5	20.5	23.0	19.5	24.0	20.5
3	10.5	9.5	14.5	12.0	---	---	25.5	21.5	24.0	20.0	24.0	20.5
4	11.5	10.0	15.5	13.0	---	---	26.5	22.0	24.5	21.0	23.0	21.0
5	11.5	10.5	15.5	13.5	---	---	25.5	22.0	25.0	21.5	22.5	20.0
6	10.5	9.5	14.5	13.0	---	---	25.0	21.0	25.5	22.5	21.5	19.0
7	9.5	9.0	13.5	11.5	---	---	23.5	20.0	25.5	22.5	21.0	18.0
8	9.0	8.0	13.0	11.0	---	---	22.0	19.5	25.5	23.0	20.5	18.0
9	8.5	8.0	14.0	11.5	---	---	22.5	19.0	25.5	22.0	20.0	17.5
10	9.0	8.0	14.5	12.0	---	---	22.5	19.0	24.5	22.0	19.0	17.0
11	9.0	8.5	15.0	12.5	---	---	24.0	20.0	24.0	21.5	19.0	16.0
12	8.5	7.5	16.0	13.5	17.0	15.5	25.5	21.5	23.0	20.0	18.5	15.5
13	8.5	7.0	---	---	19.0	16.0	25.5	21.5	21.5	18.5	19.0	16.0
14	9.5	8.0	---	---	20.0	18.0	26.5	22.0	21.0	19.0	19.5	16.0
15	11.0	9.0	---	---	20.0	18.0	27.0	23.0	20.0	17.5	19.5	16.5
16	10.5	9.5	---	---	20.0	17.5	27.5	23.5	18.5	17.5	19.5	16.5
17	9.5	8.5	---	---	20.0	17.5	27.5	23.0	19.5	16.5	19.5	17.0
18	9.0	7.5	---	---	20.5	17.5	26.5	22.5	19.5	17.0	19.0	16.5
19	10.0	8.0	---	---	21.0	18.0	24.5	21.0	20.5	18.0	17.5	15.5
20	10.5	9.0	---	---	21.5	18.0	24.0	20.5	21.5	19.5	17.0	14.5
21	11.5	10.5	---	---	22.0	19.0	23.5	19.5	21.5	19.5	18.0	15.5
22	11.0	10.0	---	---	21.5	18.0	23.5	19.5	22.0	19.0	18.0	16.0
23	11.0	10.0	---	---	20.0	17.0	24.5	20.5	21.5	19.0	17.0	15.5
24	10.0	9.5	---	---	20.0	16.0	24.5	21.0	22.0	19.0	16.5	14.5
25	10.5	9.0	---	---	20.5	16.5	24.0	21.0	22.5	19.5	16.0	14.0
26	11.5	10.0	---	---	21.5	17.0	23.5	20.0	23.0	20.0	15.5	14.5
27	12.5	10.5	---	---	22.5	18.5	24.0	20.0	23.5	21.0	16.5	15.0
28	12.0	9.5	---	---	24.0	19.5	25.0	21.0	24.0	21.5	17.0	15.0
29	10.5	9.0	---	---	24.5	20.5	24.5	21.5	24.0	21.5	17.0	14.5
30	11.5	9.0	---	---	24.5	20.5	24.5	20.5	23.5	21.0	17.5	15.0
31	---	---	---	---	---	---	23.5	20.0	23.5	20.5	---	---
MONTH	12.5	7.0	---	---	---	---	27.5	19.0	25.5	16.5	24.0	14.0

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, and 1.0 mile upstream from mouth.
DRAINAGE AREA.--751 sq mi.
PERIOD OF RECORD.--Chemical analyses: November 1958 to September 1964.
Water temperatures: October 1965 to September 1972.
Sediment records: Water years 1955-56 (partial-record station).
EXTREMES.--1971-72:
Water temperatures: Maximum, 24.5°C July 16, 17; minimum, 1.0°C Jan. 4.
Period of record:
Water temperatures: Maximum (1965-66, 1967-72), 32.0°C Sept. 4, 5, 1966; minimum, freezing point Dec. 14, 15, 1967.
REMARKS.--Recorder stopped Feb. 3 to Mar. 1, Aug. 28-30, Sept. 2-30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	10.5	8.5	7.5	6.5	5.0	3.0	2.5	3.0	2.5	---	---
2	13.0	10.5	8.5	7.0	5.5	5.0	2.5	2.5	2.5	2.0	7.0	6.0
3	13.5	11.0	8.0	6.5	5.0	4.0	2.5	1.5	---	---	8.0	7.0
4	14.0	12.0	7.0	6.0	5.0	4.5	1.5	1.0	---	---	8.5	7.5
5	14.5	12.5	7.0	6.5	5.5	4.5	2.5	1.5	---	---	9.0	7.5
6	15.0	13.0	8.5	6.0	6.0	5.0	2.0	1.5	---	---	9.0	7.5
7	15.5	13.5	7.0	6.0	5.5	4.0	3.0	2.0	---	---	9.0	7.5
8	16.0	14.0	7.0	6.0	5.0	4.0	3.5	3.0	---	---	9.5	7.5
9	16.0	14.0	8.5	7.0	5.5	5.0	3.5	3.5	---	---	9.0	8.5
10	16.0	14.0	9.0	8.5	5.5	4.0	3.5	2.5	---	---	8.5	8.0
11	16.0	14.0	8.5	8.0	4.5	4.0	4.0	3.0	---	---	9.0	7.5
12	15.5	13.5	8.5	7.0	4.0	3.5	4.5	4.0	---	---	8.5	8.0
13	15.5	13.5	7.0	6.5	4.0	3.5	4.5	4.0	---	---	8.5	8.0
14	15.0	12.5	6.5	5.5	4.5	3.5	4.0	3.0	---	---	9.0	7.0
15	12.5	11.0	5.5	4.5	4.5	4.0	3.0	2.0	---	---	10.0	8.0
16	11.5	10.0	5.0	4.5	4.0	3.0	2.5	2.0	---	---	10.0	8.5
17	10.5	9.0	5.0	4.5	3.5	3.0	4.5	2.5	---	---	10.5	8.5
18	11.0	9.5	5.0	4.5	4.0	3.5	5.0	4.0	---	---	10.0	8.5
19	11.0	10.5	6.0	4.5	4.5	4.0	5.5	4.5	---	---	9.0	7.5
20	12.0	10.5	6.5	4.5	4.5	4.0	6.0	5.5	---	---	9.5	7.5
21	10.5	10.0	7.0	6.0	4.5	3.5	6.5	5.5	---	---	10.0	8.5
22	10.5	10.0	7.0	6.0	4.5	3.5	7.0	6.5	---	---	10.0	8.5
23	11.0	10.0	7.0	6.5	5.0	4.5	7.0	5.5	---	---	9.0	7.5
24	10.5	9.0	8.0	7.0	5.5	5.0	5.5	4.5	---	---	8.5	7.5
25	9.5	8.5	8.0	7.0	5.0	4.0	5.0	4.0	---	---	7.5	6.0
26	9.5	8.5	8.0	7.0	4.0	3.5	4.0	3.5	---	---	6.5	4.5
27	9.5	8.0	7.0	7.0	4.0	3.5	4.0	3.5	---	---	7.0	4.5
28	8.0	6.0	7.0	6.5	3.5	3.0	4.0	3.0	---	---	7.5	5.5
29	6.0	5.0	7.0	6.5	4.0	3.0	3.0	2.5	---	---	7.5	5.5
30	6.5	5.5	7.0	6.0	4.0	4.0	2.5	2.0	---	---	8.5	6.0
31	8.0	6.5	---	---	4.0	3.0	3.0	2.5	---	---	8.0	7.0
MONTH	16.0	5.0	9.0	4.5	6.5	3.0	7.0	1.0	---	---	10.5	4.5

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

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 upstream from highway bridge, and 0.2 mile downstream from Cheenitch Creek.

DRAINAGE AREA.--8,475 sq mi (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1972.
Water temperatures: October 1965 to September 1972.
Sediment records: Water years 1955-59 (partial-record station), January 1967 to September 1972.
Prior to October 1966, published as "at Somesbar".

EXTREMES.--1971-72:
Water temperatures: Maximum, 26.5°C July 15-17; minimum, 1.5°C Jan. 5.
Sediment concentrations: Maximum daily, 3,610 mg/l Jan. 22; minimum daily, 1 mg/l Aug. 25-27.
Sediment discharge: Maximum daily, 1,370,000 tons Jan. 22; minimum daily, 4.7 tons Aug. 27.

Period of record:
Water temperatures: Maximum (1965-69, 1971-72), 28.0°C on several days in 1967-68; minimum (1965-66, 1967-72), freezing point Dec. 22, 23, 1968.
Sediment concentrations (1967-72): Maximum daily, 3,610 mg/l Jan. 22, 1972; minimum daily, 1 mg/l Aug. 25-27, 1972.
Sediment discharge (1967-72): Maximum daily, 1,370,000 tons Jan. 22, 1972; minimum daily, 4.7 tons Aug. 27, 1972.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
OCT.									
19...	1035	4160	--	--	14	--	107	0	88
NOV.									
09...	1300	4280	15	7.6	14	1.9	95	0	78
DEC.									
13...	1145	10200	--	--	10	--	78	0	64
JAN.									
10...	1150	6070	--	--	--	--	--	--	--
FEB.									
07...	1230	10500	--	--	--	--	--	--	--
MAR.									
06...	1145	48500	--	--	6.0	--	67	0	55
APR.									
10...	1115	12400	--	--	4.6	--	66	0	54
MAY									
01...	1100	9820	--	--	6.8	--	71	0	58
JUNE									
05...	1030	7210	--	--	4.4	--	60	0	49
JULY									
11...	1045	2390	--	--	--	--	--	--	--
AUG.									
01...	1045	1730	--	--	--	--	--	--	--
04...	0950	2260	--	--	9.6	--	95	0	78
SEP.									
12...	1100	2190	--	--	13	--	104	0	85

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED 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)	PERCENT SODIUM
OCT.									
19...	--	5.4	--	--	--	--	78	0	--
NOV.									
09...	13	3.3	.86	147	.20	1700	69	0	30
DEC.									
13...	--	2.4	--	--	--	--	61	0	--
JAN.									
10...	--	--	--	--	--	--	--	--	--
FEB.									
07...	--	--	--	--	--	--	--	--	--
MAR.									
06...	--	1.9	--	--	--	--	56	1	--
APR.									
10...	--	.4	--	--	--	--	57	3	--
MAY									
01...	--	3.4	--	--	--	--	56	0	--
JUNE									
05...	--	.4	--	--	--	--	49	0	--
JULY									
11...	--	--	--	--	--	--	--	--	--
AUG.									
01...	--	--	--	--	--	--	--	--	--
04...	--	3.0	--	--	--	--	71	0	--
SEP.									
12...	--	5.5	--	--	--	--	74	0	--

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.						
19...	.7	208	8.0	13.0	--	0
NOV.						
09...	.7	200	7.6	8.0	--	100
DEC.						
13...	.6	168	7.5	4.5	--	100
JAN.						
10...	--	--	--	4.0	5	--
FEB.						
07...	--	--	--	6.0	26	--
MAR.						
06...	.3	129	7.6	8.0	140	0
APR.						
10...	.3	120	7.7	8.5	19	0
MAY						
01...	.4	140	7.9	11.5	3	100
JUNE						
05...	.3	118	7.5	17.0	4	0
JULY						
11...	--	--	--	21.0	0	--
AUG.						
01...	--	--	--	21.5	2	--
04...	.5	189	7.8	23.0	1	100
SEP.						
12...	.7	201	7.6	17.0	2	100

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
19...	1035	4160	195	7.7	13.0	10.8
NOV.						
09...	1300	4280	192	7.6	8.0	12.3
10...	1615	11900	123	7.4	8.5	12.8
DEC.						
13...	1145	10200	169	7.4	4.5	13.8
JAN.						
10...	1150	6070	190	7.5	4.0	13.6
FEB.						
07...	1230	10500	150	7.4	6.0	13.2
MAR.						
06...	1145	48500	126	7.6	8.0	12.5
APR.						
10...	1115	12400	123	7.4	8.5	12.0
MAY						
01...	1100	9820	140	7.6	11.5	11.6
JUNE						
05...	1030	7210	112	7.6	17.0	9.8
JULY						
11...	1045	2390	166	7.9	21.0	9.1
AUG.						
01...	1045	1730	180	8.1	21.5	9.2
04...	0950	2260	192	8.0	23.0	9.5
SEP.						
12...	1100	2190	289	8.0	17.0	10.5

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	10.5	8.5	7.5	6.0	5.5	4.5	4.0	4.0	3.0	8.0	7.5
2	13.5	11.0	8.5	7.5	5.5	5.0	4.5	3.5	3.5	2.5	7.5	7.0
3	14.5	12.0	8.0	7.0	5.0	4.0	4.0	2.5	4.0	3.0	7.5	7.0
4	15.5	13.0	8.0	7.0	4.5	4.0	2.5	2.0	5.0	4.0	7.5	7.0
5	16.0	14.0	8.5	7.0	5.0	4.5	2.0	1.5	6.0	5.0	7.5	7.0
6	16.0	14.5	7.0	6.0	5.5	5.0	2.5	2.0	7.0	6.0	7.0	7.0
7	16.5	14.5	7.0	6.0	5.5	4.0	3.5	2.5	7.0	6.5	7.0	6.5
8	16.5	14.5	7.0	6.0	4.5	4.0	4.0	3.5	7.0	6.0	7.0	6.5
9	17.0	15.0	6.5	6.0	6.0	4.5	5.0	4.0	6.5	6.0	7.0	7.0
10	17.0	15.0	7.0	6.5	6.0	4.5	5.0	4.0	6.5	6.0	7.0	7.0
11	17.0	15.0	8.0	7.0	5.0	4.5	5.0	4.5	7.0	6.0	7.5	7.0
12	16.0	14.5	7.5	7.0	4.5	4.0	6.0	5.0	7.0	6.5	8.5	7.0
13	16.0	14.5	7.5	7.0	4.5	4.0	6.5	5.0	8.5	7.0	8.5	8.0
14	15.0	13.0	7.0	5.5	5.0	4.5	5.5	4.0	7.5	7.0	8.0	8.0
15	13.0	11.5	5.5	4.5	5.0	4.5	4.0	3.0	8.0	7.0	8.5	8.0
16	12.0	10.0	5.0	4.0	4.5	4.0	4.0	3.0	9.0	8.0	9.0	8.0
17	11.0	9.5	5.0	4.0	4.0	3.5	5.5	4.0	9.0	8.5	9.5	9.0
18	11.5	10.0	5.0	4.5	4.0	3.5	6.5	5.0	9.0	8.5	9.5	9.0
19	11.5	11.0	5.0	4.0	4.5	4.0	7.5	6.5	9.0	8.0	9.5	9.0
20	12.0	11.0	6.0	5.0	4.5	4.0	8.0	7.5	9.5	9.0	9.5	8.5
21	11.5	10.5	6.5	6.0	4.0	4.0	8.0	8.0	10.0	9.5	10.0	9.0
22	11.5	11.0	7.0	6.5	4.5	4.0	8.5	8.0	9.5	7.0	10.5	9.5
23	11.5	11.0	7.0	6.5	5.5	4.5	8.5	7.0	7.0	6.5	9.5	9.0
24	11.0	10.0	6.5	6.5	6.0	5.5	7.0	6.5	7.0	6.5	9.5	9.0
25	10.5	9.0	7.0	6.5	6.0	5.0	6.5	5.5	7.0	6.5	9.0	7.5
26	10.5	10.0	7.0	7.0	6.0	4.5	5.5	4.5	8.0	7.0	8.0	7.0
27	10.0	8.0	7.0	6.5	5.0	4.0	5.0	4.0	8.5	8.0	8.5	7.0
28	8.5	6.5	6.5	6.5	4.5	3.5	4.5	4.0	8.0	7.5	9.0	7.5
29	7.0	5.5	6.5	6.0	4.0	3.5	4.0	3.5	8.5	8.0	9.5	7.5
30	7.0	6.0	6.0	5.5	4.0	3.0	4.0	3.0	---	---	9.5	8.0
31	8.0	6.5	---	---	4.5	3.5	4.5	3.5	---	---	9.0	8.0
MONTH	17.0	5.5	8.5	4.0	6.0	3.0	8.5	1.5	10.0	2.5	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	9.0	12.0	9.5	17.5	15.0	24.5	21.0	25.5	18.5	26.0	19.5
2	11.0	9.5	13.0	11.0	17.0	15.0	24.5	21.5	23.5	18.0	24.0	21.0
3	11.5	10.5	14.0	11.5	17.0	14.5	25.0	21.5	24.0	19.5	24.0	20.0
4	12.0	10.5	14.5	12.0	18.0	14.5	25.0	21.5	24.5	20.0	24.0	20.5
5	12.0	10.5	14.5	12.5	19.0	15.5	24.5	21.5	25.5	21.5	23.5	21.0
6	10.5	9.5	13.0	12.0	19.0	16.5	23.5	20.0	26.0	21.5	22.5	19.0
7	9.5	8.5	12.0	10.5	19.0	16.5	22.5	19.0	26.0	22.0	22.0	18.0
8	9.0	8.0	12.0	10.0	18.5	16.5	21.5	18.0	26.0	22.0	21.0	17.5
9	8.5	7.5	13.0	11.0	17.0	12.5	21.0	18.0	25.5	22.0	20.5	17.0
10	9.0	7.0	14.0	11.5	12.5	11.5	21.0	17.0	26.0	21.5	20.0	16.0
11	8.5	8.0	14.5	12.0	14.0	11.5	22.5	18.5	25.5	20.5	19.0	15.0
12	8.0	6.5	15.5	12.5	16.0	13.0	24.0	20.0	24.0	18.0	19.0	15.0
13	8.0	6.0	16.0	13.5	17.5	14.5	24.5	20.0	22.5	17.5	19.0	15.5
14	9.5	7.0	16.0	14.0	18.5	15.5	25.5	21.5	21.0	16.5	19.5	15.5
15	10.5	8.5	15.5	13.5	18.5	16.0	26.5	22.5	20.5	15.0	20.0	16.5
16	10.5	9.5	14.5	12.5	18.5	15.5	26.5	23.0	19.5	16.0	18.5	16.0
17	9.5	8.0	12.5	11.5	19.5	16.0	26.5	22.0	20.0	16.5	20.0	16.0
18	8.5	7.0	12.0	10.5	20.5	16.5	26.0	21.5	20.0	17.0	19.0	17.0
19	9.0	7.0	12.5	10.5	20.5	17.5	25.0	19.5	20.5	17.0	18.5	15.0
20	10.0	8.0	12.0	10.5	21.0	18.0	24.5	19.5	21.5	18.5	18.0	15.0
21	11.0	9.5	10.5	10.0	21.5	18.0	23.5	18.5	22.5	19.5	17.5	15.5
22	11.0	9.5	12.5	10.0	21.0	18.0	24.0	19.0	22.5	18.0	18.0	16.0
23	10.5	9.5	14.0	11.5	19.0	16.5	24.0	19.5	23.0	18.5	17.5	14.5
24	9.5	9.0	15.0	12.5	19.0	16.0	23.5	19.0	23.0	19.0	16.5	14.0
25	10.5	8.5	15.5	13.0	19.5	16.5	23.5	18.5	23.5	19.0	15.5	14.0
26	11.5	9.5	16.5	14.0	21.5	17.0	23.5	18.5	24.5	20.0	15.0	14.5
27	12.5	10.5	17.5	15.0	22.0	18.0	24.0	18.5	25.5	20.5	16.5	15.5
28	11.5	9.5	17.5	15.5	23.0	19.5	24.5	19.0	26.0	21.0	17.0	15.0
29	9.5	8.0	17.0	15.5	23.5	20.5	24.0	20.0	26.0	21.0	17.5	14.5
30	10.5	8.0	17.0	15.0	23.5	21.0	25.5	20.0	26.0	20.0	18.0	15.0
31	---	---	17.5	15.0	---	---	25.5	18.5	26.0	20.0	---	---
MONTH	12.5	6.0	17.5	9.5	23.5	11.5	26.5	17.0	26.0	15.0	26.0	14.0

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	3550	48	460	4360	12	141	10200	130	3580
2	3460	40	374	4360	12	141	9200	103	2560
3	3490	36	339	4250	12	138	8580	77	1780
4	3570	32	308	4220	11	125	8100	26	569
5	3550	29	278	4220	11	125	8900	46	1250
6	3480	27	254	4220	10	114	22600	257	16100
7	3470	27	253	4260	10	115	15600	60	2530
8	3430	27	250	4270	11	127	11900	44	1410
9	3430	26	241	4430	10	120	12900	45	1570
10	3960	26	278	10000	171	5000	12900	49	1710
11	4000	26	281	7130	59	1140	11400	44	1350
12	3970	24	257	5890	54	859	11400	46	1420
13	3960	22	235	6860	45	839	10400	37	1040
14	3980	21	226	6310	29	494	9940	29	778
15	4050	21	230	5570	22	331	9720	23	604
16	4120	20	222	5320	17	244	9220	23	573
17	4180	19	214	5110	15	207	8800	20	475
18	4180	17	192	5020	17	230	8420	19	432
19	4280	17	196	4940	14	187	7860	20	424
20	4650	17	213	4930	12	160	7460	16	322
21	4390	16	190	4970	13	174	7370	16	318
22	4280	16	185	4960	13	174	8760	30	710
23	4440	16	192	4910	16	212	9300	26	653
24	4430	16	191	5440	18	264	9200	14	348
25	4340	18	211	5670	21	321	9240	18	449
26	4330	21	246	21400	370	31900	8840	26	621
27	4410	23	274	23700	254	18100	8320	25	562
28	4360	18	212	19400	145	7600	7840	26	550
29	4310	15	175	19000	221	11300	7530	22	447
30	4330	13	152	13200	165	5880	7290	18	354
31	4410	13	155	--	--	--	7130	16	308
TOTAL	124790	--	7484	228320	--	86762	306320	--	45797

	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	7060	14	267	13300	148	5310	42000	775	87900
2	6970	14	263	12000	94	3050	121000	2760	1020000
3	6860	12	222	11400	83	2550	151000	1880	819000
4	6700	12	217	11200	67	2030	88500	900	215000
5	6530	11	194	10900	64	1880	63100	880	150000
6	6470	10	175	10700	79	2280	49300	910	121000
7	6470	13	227	10500	62	1760	44800	710	85900
8	6370	12	206	10400	89	2500	41100	620	68800
9	6130	10	166	10400	47	1320	41000	470	52000
10	6070	10	164	10000	53	1430	42300	410	46800
11	6100	9	148	9780	46	1210	43200	366	42700
12	6290	12	204	9660	63	1640	43400	359	42100
13	6530	11	194	9780	38	1000	49300	371	49400
14	6590	9	160	10100	98	2690	43400	315	36900
15	6440	13	226	9880	30	800	38200	342	35300
16	6340	10	171	9980	35	943	38500	300	31200
17	6400	8	138	10300	43	1200	37500	270	27300
18	7980	60	1290	10600	35	1000	35600	200	19200
19	10300	83	2310	10400	32	899	31800	175	15000
20	17900	118	5700	13300	91	3310	28000	208	15700
21	67600	1850	363000	12800	73	2520	25900	182	12700
22	135000	3610	1370000	13200	73	2600	28900	188	14700
23	116000	1990	656000	14400	87	3380	27900	190	14300
24	58100	960	151000	16900	92	4200	26300	173	12300
25	39100	613	64700	15900	92	3960	24600	203	13500
26	30200	482	39300	18400	582	29800	22400	148	8950
27	26200	363	25700	31400	435	36900	20900	143	8070
28	20300	186	10200	84600	894	210000	19800	158	8450
29	17700	174	8320	69900	860	162000	18200	140	6880
30	15800	171	7290	--	--	--	16800	108	4900
31	14800	125	5000	--	--	--	16000	90	3890
TOTAL	687300	--	2713152	492080	--	494162	1320700	--	3089840

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	15500	98	4100	9800	24	635	9460	20	511
2	15800	97	4140	9410	24	610	8550	16	369
3	16000	80	3460	8870	25	599	7780	16	336
4	15300	68	2810	9510	24	616	7240	12	235
5	17300	143	6680	9980	24	647	7220	11	214
6	19400	122	6390	10100	23	627	7410	12	240
7	17100	105	4850	9660	26	678	7690	12	249
8	15100	61	2490	9050	21	513	7770	12	252
9	13600	58	2130	8550	18	416	7690	12	249
10	12700	50	1710	8390	17	385	7730	13	271
11	12200	63	2080	8310	21	471	7250	13	254
12	12800	60	2070	8530	20	461	6760	13	237
13	12600	48	1630	9390	23	583	6290	13	221
14	12300	42	1390	11300	30	915	6050	11	180
15	12700	53	1820	11900	31	996	5870	9	143
16	12900	50	1740	11800	36	1150	5620	7	106
17	12700	48	1650	11500	31	963	5370	8	116
18	12300	41	1360	10400	27	758	5270	10	142
19	11800	40	1270	9530	22	566	5100	10	138
20	11400	40	1230	9260	23	575	4970	8	107
21	11100	39	1170	9480	21	538	4830	7	91
22	10700	37	1070	9050	20	489	4650	5	63
23	10400	35	983	8800	16	380	4380	7	83
24	10700	35	1010	9010	22	535	4210	10	114
25	10500	30	851	8970	16	388	4030	10	109
26	10100	28	764	9230	19	473	3860	10	104
27	9910	31	829	10100	21	573	3770	8	81
28	10300	35	973	11700	31	979	3640	7	69
29	10100	30	818	11800	37	1180	3570	5	48
30	9930	31	831	11300	36	1100	3470	4	37
31	--	--	--	10500	30	851	--	--	--
TOTAL	385240	--	64299	305180	--	20650	177500	--	5369

	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	3390	4	37	1720	9	42	1630	4	18
2	3270	3	26	1840	8	40	1800	7	34
3	3140	2	17	2110	8	46	1970	6	32
4	3020	4	33	2170	8	47	2020	4	22
5	2900	4	31	2150	9	52	2040	4	22
6	2740	4	30	2090	8	45	2070	5	28
7	2650	4	29	2060	8	44	2060	6	33
8	2580	5	35	2060	11	61	2020	6	33
9	2540	6	41	2050	14	77	2000	6	32
10	2470	6	40	2040	10	55	2150	6	35
11	2380	6	39	2030	5	27	2170	4	23
12	2340	6	38	2020	4	22	2190	5	30
13	2300	5	31	2020	4	22	2480	6	40
14	2230	6	36	2020	6	33	2500	7	47
15	2160	8	47	2020	10	55	2500	8	54
16	2120	6	34	2100	4	23	2500	8	54
17	2070	5	28	2220	6	36	2500	6	41
18	2030	3	16	2080	6	34	2500	4	27
19	2000	2	11	2030	5	27	2500	6	41
20	1950	2	11	1990	5	27	2510	8	54
21	1910	3	15	1960	4	21	2530	7	48
22	1880	4	20	1930	4	21	2590	7	49
23	1880	4	20	1870	5	25	2670	10	72
24	1850	3	15	1820	2	9.8	2680	13	94
25	1830	3	15	1780	1	4.8	2680	13	94
26	1810	3	15	1770	1	4.8	2950	12	96
27	1780	2	9.6	1750	1	4.7	3170	8	68
28	1770	4	19	1710	2	9.2	3070	4	33
29	1770	6	29	1680	2	9.1	2930	4	32
30	1770	8	38	1660	3	13	2870	5	39
31	1750	10	47	1640	3	13	--	--	--
TOTAL	70280	--	852.6	60390	--	950.4	72250	--	1325

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 4230350
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 6530643.0

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.										
26...	1530	--	29300	610	48300	32	40	54	69	81
27...	0740	--	25300	346	23600	37	50	59	72	83
27...	1440	--	21800	145	8540	--	--	--	--	--
30...	0810	--	14000	171	6460	--	--	--	--	--
JAN.										
21...	0825	8.0	64400	2270	395000	6	10	16	23	33
21...	1415	8.0	80800	2350	513000	10	12	23	32	43
22...	0700	--	151000	4870	1990000	8	15	25	35	45
22...	1030	--	165000	2800	1250000	13	19	36	50	63
27...	1315	4.0	24800	377	25200	9	19	31	42	47
28...	0730	--	21400	190	11000	--	--	--	--	--
FEB.										
28...	1515	--	89200	793	191000	15	24	43	62	78
MAR.										
01...	0940	--	49100	761	101000	10	20	28	40	47
02...	0735	--	111000	2180	653000	8	14	22	31	37
08...	0745	--	41300	654	72900	11	20	26	34	39
18...	0845	--	37900	206	21100	--	--	--	--	--
19...	0740	--	34600	165	15400	--	--	--	--	--

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.										
26...	--	97	--	98	--	100	--	--	--	--
27...	--	94	--	96	--	100	--	--	--	--
27...	--	89	--	91	--	100	--	--	--	--
30...	--	80	--	91	--	96	--	100	--	--
JAN.										
21...	--	51	--	60	--	86	--	98	--	100
21...	50	--	58	--	84	--	99	--	100	--
22...	53	--	71	--	99	--	100	--	--	--
22...	76	--	87	--	100	--	--	--	--	--
27...	--	65	--	71	--	85	--	96	--	100
28...	--	97	--	97	--	99	--	100	--	--
FEB.										
28...	89	--	92	--	98	--	100	--	--	--
MAR.										
01...	63	--	74	--	90	--	99	--	100	--
02...	51	--	65	--	98	--	100	--	--	--
08...	60	--	70	--	92	--	100	--	--	--
18...	--	97	--	100	--	--	--	--	--	--
19...	--	100	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
OCT.							
21...	1530	11.0	1	4400	4	15	44
21...	1535	11.0	1	4400	1	17	40
21...	1540	11.0	1	4400	3	8	20
21...	1545	11.0	1	4400	1	3	7
21...	1550	11.0	1	4400	--	--	--

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
OCT.							
21...	81	90	94	98	99	100	--
21...	59	67	69	88	100	--	--
21...	29	32	39	66	92	97	100
21...	10	11	17	47	82	100	--
21...	--	--	--	--	6	44	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 upstream from Deadwood Creek, and 0.8 mile northeast of Lewiston.

DRAINAGE AREA.--719 sq mi (revised).

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), December 1953 to September 1968, water years 1969-72 (partial-record station).
Water temperatures: September 1951 to September 1955, October 1957 to September 1958, July 1959 to September 1972.
Sediment records: Water years 1955-61 (partial-record station).

EXTREMES, 1971-72:
Water temperatures: Maximum, 13.0°C May 28-31; minimum, 4.0°C Feb. 2.

Period of record:
Water temperatures: Maximum (1951-55, 1957-58, 1959-63, 1964-72), 26.0°C July 20, 21, 28, 29, 1960; minimum, 1.0°C on several days in 1952.

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	DISSOLVED NITRATE (N) (MG/L)
NOV.								
09...	0925	248	--	--	--	--	--	--
JAN.								
10...	0845	156	--	--	--	--	--	--
MAR.								
06...	0820	153	--	--	--	--	--	--
MAY								
01...	0715	154	2.2	48	0	39	2.4	--
JULY								
11...	0705	153	2.2	46	0	38	1.4	.02
SEP.								
12...	0715	203	--	--	--	--	--	--

DATE	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
NOV.							
09...	--	--	--	--	7.0	0	
JAN.							
10...	--	--	--	--	4.5	1	--
MAR.							
06...	--	--	--	--	7.5	2	--
MAY							
01...	39	0	.2	--	8.0	0	100
JULY							
11...	37	0	.2	82	9.0	1	0
SEP.							
12...	--	--	--	--	9.0	1	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
NOV.						
09...	0925	248	82	7.1	7.0	11.0
JAN.						
10...	0845	156	96	7.1	4.5	11.9
MAR.						
06...	0820	153	88	7.1	7.5	11.1
MAY						
01...	0715	154	84	7.2	8.0	10.4
JULY						
11...	0705	153	--	7.2	9.0	10.3
SEP.						
12...	0715	203	81	7.9	9.0	10.4

11525500 TRINITY RIVER AT LEWISTON, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.5	10.5	8.0	12.5	10.0	10.0	8.5	10.5	8.0	10.0	8.5
2	7.5	6.5	10.5	7.5	10.5	9.0	10.5	8.5	10.5	8.0	9.5	8.0
3	8.5	6.5	10.5	7.5	10.5	8.5	10.5	8.5	10.0	8.0	10.0	8.0
4	9.0	7.0	10.5	8.0	10.5	8.0	11.0	8.5	10.0	8.0	9.5	8.0
5	9.5	7.5	11.0	8.0	10.5	8.0	10.5	8.0	10.5	8.0	10.0	8.0
6	9.0	7.5	11.0	8.0	10.0	8.5	11.5	8.0	10.5	8.0	10.0	8.0
7	9.0	7.5	10.0	8.0	11.0	8.5	11.0	8.5	10.5	8.0	10.0	8.0
8	9.0	7.0	10.5	8.0	11.5	8.5	11.5	8.5	10.0	8.5	10.0	8.5
9	9.0	7.0	10.5	7.5	10.0	9.0	11.5	8.5	10.0	8.5	10.0	8.0
10	8.5	7.0	10.5	7.5	11.0	9.0	11.5	8.5	10.5	8.0	9.5	8.0
11	8.5	7.5	10.5	7.5	11.0	8.5	11.0	8.5	10.5	8.0	9.5	8.0
12	8.5	7.0	10.5	8.0	11.0	9.0	11.0	8.5	11.5	9.0	9.5	8.0
13	9.5	7.0	11.0	8.0	11.5	9.0	10.5	8.5	11.0	9.0	9.0	7.5
14	9.5	7.0	11.5	8.5	12.0	9.5	11.0	8.5	11.0	9.0	9.0	7.5
15	10.0	7.0	11.5	8.5	12.0	9.5	11.0	8.5	10.5	9.0	9.0	7.5
16	10.0	7.5	10.0	8.5	12.0	10.0	11.0	8.5	10.0	9.0	9.5	7.5
17	10.0	7.0	12.0	9.0	12.0	10.0	11.0	8.5	11.0	8.5	9.5	8.5
18	10.0	7.0	12.0	9.0	12.0	10.0	12.0	8.5	10.0	8.5	10.0	8.5
19	10.0	7.5	12.0	9.0	12.0	10.0	11.5	8.5	11.0	8.5	10.0	8.5
20	10.0	7.5	10.0	9.5	12.0	10.0	11.0	8.5	10.0	8.0	10.0	8.5
21	10.0	7.5	10.0	9.0	11.5	9.5	11.0	8.5	10.5	8.5	10.0	8.5
22	10.0	7.5	11.5	8.5	11.5	9.0	10.5	8.5	10.5	8.0	9.5	8.0
23	9.5	8.0	11.5	8.5	11.5	9.0	11.0	8.0	10.5	8.0	9.5	8.5
24	9.5	7.5	12.0	9.0	11.0	9.0	11.0	8.0	10.5	8.5	9.0	8.0
25	10.0	7.5	12.0	9.0	10.5	9.0	11.0	8.5	10.5	8.5	8.5	8.0
26	10.0	7.5	12.0	9.5	10.5	8.5	10.5	8.0	10.5	8.5	8.5	8.0
27	10.0	7.5	12.0	9.5	10.0	8.5	10.5	8.0	10.5	8.5	8.5	8.0
28	10.0	7.5	13.0	10.0	10.0	8.5	10.5	8.0	11.0	8.5	8.5	8.0
29	10.5	7.5	13.0	10.0	10.0	8.5	9.0	8.0	10.5	8.5	9.0	8.0
30	10.5	8.0	13.0	10.0	10.5	8.5	10.5	8.0	10.5	8.5	9.0	8.0
31	---	---	13.0	10.0	---	---	10.5	8.0	10.5	8.5	---	---
MONTH	10.5	6.5	13.0	7.5	12.5	8.0	12.0	8.0	11.5	8.0	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 upstream from Cedar Flat Creek, 700 ft upstream from highway bridge at Cedar Flat, and 2.3 miles southeast of town of Burnt Ranch.
DRAINAGE AREA.--1,439 sq mi.
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 September 1972.
Sediment records: Water year 1968 (partial-record station).
EXTREMES.--1971-72:
Water temperatures: Maximum, 22.5°C July 15; minimum, 2.5°C Jan. 29, 30, Feb. 1, 2.
Period of record:
Water temperatures (1962-64, 1966-67, 1968-72): Maximum, 27.0°C Aug. 17-19, 24, 1967; minimum (1962-63, 1966-67, 1968-72), 1.0°C Dec. 28, 29, 1966.
REMARKS.--Recorder stopped Feb. 22 to Mar. 16, Apr. 30 to May 19, Aug. 29 to Sept. 30.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	12.5	10.5	8.5	6.5	6.0	4.5	4.5	3.5	2.5	---	---
2	16.5	13.0	10.0	9.5	6.0	5.5	4.5	4.0	3.0	2.5	---	---
3	17.0	13.5	9.5	8.5	5.5	5.5	4.0	3.0	4.5	3.0	---	---
4	17.5	14.5	8.5	8.5	5.5	5.0	3.5	3.0	5.0	4.5	---	---
5	18.0	14.5	10.0	9.5	6.5	5.0	3.5	3.0	6.0	5.0	---	---
6	18.0	15.5	9.5	8.0	6.0	5.0	4.0	3.5	6.5	5.5	---	---
7	17.5	15.5	9.0	8.5	5.0	4.0	5.0	4.0	6.5	5.5	---	---
8	17.5	15.5	9.5	9.0	5.0	4.0	5.0	4.5	6.5	5.5	---	---
9	17.5	16.0	9.5	9.0	5.5	5.0	5.0	4.5	6.5	5.5	---	---
10	17.0	16.0	10.0	9.0	5.5	5.0	5.0	4.5	6.5	5.5	---	---
11	17.0	16.0	10.0	10.0	5.0	5.0	5.0	5.0	7.0	6.0	---	---
12	17.0	15.0	10.0	9.5	5.0	3.5	6.0	5.0	7.0	6.0	---	---
13	17.0	15.0	9.5	8.5	4.5	3.5	6.0	5.0	7.0	6.0	---	---
14	16.0	14.5	8.5	8.0	5.0	4.0	5.5	4.0	6.5	6.0	---	---
15	15.0	12.5	8.0	7.5	4.5	4.0	4.5	4.0	7.0	6.0	---	---
16	13.0	11.5	7.5	7.5	4.5	4.0	4.5	4.0	7.5	6.5	---	---
17	12.5	10.5	7.5	7.5	4.0	4.0	5.5	4.5	7.5	6.5	12.0	9.0
18	13.0	11.0	8.0	7.0	4.5	4.0	7.0	5.5	7.5	6.5	11.0	8.5
19	13.0	12.5	7.0	6.0	5.5	4.5	7.0	6.5	8.5	7.0	10.5	7.5
20	13.0	12.0	7.5	7.0	5.0	5.0	7.0	7.0	8.0	7.5	11.0	8.0
21	13.0	12.5	7.5	7.5	5.0	5.0	7.0	7.0	8.0	7.5	10.5	8.5
22	14.0	12.5	8.0	7.5	5.5	5.0	7.5	7.0	---	---	10.0	9.0
23	12.5	12.0	9.5	8.0	5.5	5.0	7.0	6.0	---	---	10.5	8.0
24	12.0	11.5	9.5	8.5	5.5	5.0	6.0	5.5	---	---	9.0	7.5
25	12.0	11.0	8.5	7.5	5.0	5.0	6.0	4.5	---	---	8.5	6.5
26	12.0	11.0	8.0	7.5	5.0	5.0	5.0	4.5	---	---	8.5	6.0
27	11.5	9.0	7.5	7.5	5.0	4.5	5.0	4.0	---	---	9.5	7.0
28	9.0	8.0	7.5	7.0	5.0	4.5	4.0	3.5	---	---	9.5	7.0
29	8.0	7.0	7.0	7.0	5.0	4.5	3.5	2.5	---	---	11.0	7.0
30	8.5	8.0	7.0	6.5	5.0	5.0	3.5	2.5	---	---	11.5	7.5
31	8.5	8.5	---	---	5.0	4.5	3.5	3.0	---	---	9.5	8.0
MONTH	18.0	7.0	10.5	6.0	6.5	3.5	7.5	2.5	---	---	---	---

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	---	---	18.0	15.0	21.0	18.0	20.0	17.0	---	---
2	12.5	9.5	---	---	17.5	15.0	20.5	18.0	20.5	17.0	---	---
3	12.5	10.5	---	---	17.5	14.5	20.5	18.0	21.0	17.5	---	---
4	13.0	11.0	---	---	18.5	14.5	20.5	17.5	21.5	18.0	---	---
5	11.5	10.5	---	---	18.5	15.5	20.5	17.5	22.0	18.5	---	---
6	11.0	10.0	---	---	18.5	16.5	20.0	16.5	21.5	18.5	---	---
7	11.0	9.0	---	---	18.5	16.5	19.5	16.5	21.5	18.5	---	---
8	9.5	8.5	---	---	18.5	16.0	19.0	16.5	21.0	18.5	---	---
9	10.5	8.5	---	---	16.5	13.0	19.0	16.5	21.0	18.5	---	---
10	11.0	8.5	---	---	15.0	12.5	19.0	16.0	21.0	18.0	---	---
11	9.5	8.5	---	---	17.0	13.0	19.5	17.0	20.5	18.0	---	---
12	8.5	7.5	---	---	18.5	15.0	20.5	17.5	19.5	17.5	---	---
13	10.0	7.0	---	---	18.5	15.0	20.5	17.5	19.0	16.0	---	---
14	12.5	8.5	---	---	18.5	15.5	21.5	18.5	18.5	16.5	---	---
15	12.5	9.0	---	---	18.0	16.0	22.5	18.5	18.0	15.5	---	---
16	11.5	9.5	---	---	18.0	16.0	22.0	19.0	18.0	16.0	---	---
17	11.0	8.5	---	---	18.5	15.5	21.5	18.5	19.0	16.0	---	---
18	11.5	8.0	---	---	19.5	16.5	20.5	18.5	19.0	16.5	---	---
19	12.0	8.0	---	---	19.5	16.5	20.5	17.5	18.5	17.0	---	---
20	12.5	9.5	15.5	12.0	19.5	17.0	20.5	17.5	19.0	17.5	---	---
21	12.5	10.0	16.0	12.5	19.5	16.5	20.5	17.5	19.5	17.5	---	---
22	13.5	9.0	16.5	12.0	18.5	16.5	20.5	17.5	20.0	17.0	---	---
23	12.5	10.0	17.0	13.5	18.0	15.5	20.5	17.5	20.0	17.0	---	---
24	10.0	9.0	17.5	14.0	18.5	15.5	20.5	17.5	20.0	17.0	---	---
25	13.0	9.0	17.5	13.5	18.5	15.5	21.0	17.5	20.5	17.0	---	---
26	14.0	9.5	18.5	14.5	20.0	16.0	20.5	18.0	20.0	17.5	---	---
27	14.5	10.5	18.5	15.5	20.0	17.0	21.5	18.0	20.5	17.0	---	---
28	12.0	9.5	18.5	15.5	20.5	17.5	21.5	18.0	21.0	17.5	---	---
29	12.5	8.0	18.0	15.5	20.5	17.5	21.0	17.5	---	---	---	---
30	---	---	18.0	15.0	21.0	17.5	21.0	18.0	---	---	---	---
31	---	---	18.0	15.0	---	---	20.5	17.5	---	---	---	---
MONTH	14.5	7.0	---	---	21.0	12.5	22.5	16.0	22.0	15.5	---	---

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 miles upstream from mouth, and 1.3 miles northeast of Hyampom.
DRAINAGE AREA.--378 sq mi.
PERIOD OF RECORD.--Water temperatures: December 1960 to September 1972.
EXTREMES.--1971-72:
Water temperatures: Maximum, 26.5°C July 16, 17.
Period of record:
Water temperatures (1960-68, 1971-72): Maximum (1960-61, 1962-66, 1967-68, 1971-72), 28.5°C July 13, 1961; minimum (1960-68), freezing point on several days in 1962 and 1968.
REMARKS.--Recorder stopped Oct. 1 to Nov. 9, Dec. 18 to Jan. 25, July 22 to Aug. 19; recorder malfunction Sept. 18-30. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	--	--	--	--	--	--	6.0	--	5.5	--	--	--	2.5	--	1.5	6.5	--	5.5
2	--	--	--	--	--	--	6.0	--	5.5	--	--	--	2.0	--	1.5	7.5	--	6.5
3	--	--	--	--	--	--	5.5	--	5.0	--	--	--	3.0	--	1.5	8.5	--	7.0
4	--	--	--	--	--	--	5.5	--	5.0	--	--	--	3.5	--	2.5	9.0	--	8.0
5	--	--	--	--	--	--	6.0	--	5.5	--	--	--	4.0	--	3.5	9.0	--	8.0
6	--	--	--	--	--	--	6.5	--	5.0	--	--	--	4.5	--	4.0	9.0	--	8.0
7	--	--	--	--	--	--	5.0	--	3.5	--	--	--	5.0	--	4.5	9.0	--	8.5
8	--	--	--	--	--	--	4.0	--	3.5	--	--	--	6.0	--	4.5	9.5	--	8.0
9	--	--	--	--	--	--	5.0	--	3.5	--	--	--	5.5	--	4.5	10.0	--	9.0
10	--	--	--	8.5	--	8.5	5.0	--	4.0	--	--	--	5.0	--	4.5	9.0	--	9.0
11	--	--	--	8.5	--	8.5	4.5	--	4.0	--	--	--	5.5	--	4.5	9.5	--	9.0
12	--	--	--	9.0	--	8.5	4.0	--	3.5	--	4.0	--	5.5	--	5.0	10.0	--	9.5
13	--	--	--	9.0	--	8.0	4.0	--	3.5	--	--	--	6.5	--	5.5	10.0	--	9.5
14	--	--	--	8.0	--	7.0	4.0	--	4.0	--	--	--	6.0	--	5.5	10.0	--	9.5
15	--	--	--	7.0	--	6.0	5.0	--	4.0	--	--	--	6.0	--	5.5	10.5	--	9.5
16	--	--	--	6.0	--	5.0	4.0	--	3.0	--	--	--	7.0	--	6.0	11.0	--	10.0
17	--	--	--	5.5	--	4.5	3.0	--	3.0	--	--	--	7.0	--	6.0	11.0	--	10.5
18	--	--	--	5.0	--	4.5	--	--	--	--	--	--	6.5	--	6.0	11.5	--	10.5
19	--	--	--	5.0	--	4.5	--	--	--	--	--	--	7.5	--	6.5	10.5	--	9.0
20	--	10.0	--	5.5	--	4.5	--	--	--	--	--	--	8.0	--	7.5	10.0	--	9.0
21	--	--	--	5.5	--	4.5	--	--	--	--	--	--	8.0	--	7.5	10.0	--	10.0
22	--	--	--	6.0	--	5.0	--	--	--	--	--	--	7.5	--	4.5	10.0	--	9.5
23	--	--	--	6.5	--	5.5	--	--	--	--	--	--	5.5	--	4.5	10.0	--	9.0
24	--	--	--	7.0	--	6.0	--	--	--	--	--	--	6.0	--	5.5	9.5	--	8.5
25	--	--	--	7.5	--	7.0	--	--	--	--	--	--	6.0	--	5.5	8.5	--	7.5
26	--	--	--	8.0	--	7.5	--	--	--	4.0	--	3.0	7.0	--	5.5	7.5	--	6.5
27	--	--	--	7.5	--	7.0	--	--	--	3.0	--	3.0	7.0	--	6.5	7.5	--	6.5
28	--	--	--	7.0	--	7.0	--	--	--	3.0	--	2.5	7.0	--	6.5	8.0	--	7.0
29	--	--	--	7.0	--	6.5	--	--	--	3.0	--	1.5	7.0	--	6.0	8.0	--	7.0
30	--	--	--	7.0	--	6.0	--	--	--	2.0	--	1.5	--	--	--	8.5	--	7.5
31	--	--	--	--	--	--	--	--	--	2.5	--	1.5	--	--	--	9.0	--	8.5
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	8.0	--	1.5	11.5	--	5.5

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	9.5	--	9.0	14.0	--	11.5	20.0	--	18.0	25.0	--	22.5	--	--	--	22.5	--	20.5
2	11.0	--	9.5	15.0	--	12.5	19.5	--	18.5	25.5	--	23.0	--	--	--	22.0	--	20.5
3	12.0	--	11.0	15.5	--	13.5	19.5	--	17.5	25.5	--	23.5	--	--	--	22.0	--	20.0
4	12.0	--	11.5	16.5	--	14.0	20.0	--	17.5	25.0	--	23.0	--	--	--	22.5	--	20.0
5	12.5	--	12.0	17.0	--	14.5	20.5	--	18.5	25.0	--	22.5	--	--	--	22.0	--	20.0
6	12.0	--	11.0	16.0	--	14.5	21.5	--	19.5	24.5	--	22.0	--	--	--	22.0	--	19.5
7	11.0	--	10.0	14.5	--	13.5	23.5	--	20.0	23.5	--	21.0	--	--	--	22.0	--	19.0
8	10.5	--	9.5	15.5	--	13.0	23.0	--	20.0	21.5	--	20.5	--	--	--	21.5	--	19.0
9	9.5	--	9.0	16.0	--	13.5	21.0	--	16.5	21.5	--	19.5	--	--	--	21.5	--	19.0
10	10.0	--	9.0	16.5	--	14.5	16.5	--	15.0	22.5	--	19.5	--	--	--	19.5	--	17.5
11	10.0	--	9.0	17.0	--	14.5	17.0	--	14.0	23.0	--	20.0	--	--	--	19.0	--	16.5
12	9.0	--	8.0	18.0	--	15.5	19.0	--	16.0	24.0	--	21.0	--	--	--	18.0	--	16.0
13	8.5	--	7.5	18.5	--	16.5	20.0	--	17.5	24.5	--	21.5	--	--	--	18.5	--	16.0
14	10.0	--	8.5	19.0	--	17.0	20.5	--	18.0	25.5	--	22.5	--	--	--	18.5	--	16.0
15	11.0	--	10.0	18.5	--	17.0	21.5	--	19.0	26.0	--	23.5	--	--	--	18.5	--	16.5
16	10.5	--	10.0	18.0	--	14.5	21.0	--	18.5	26.5	--	24.0	--	--	--	19.0	--	16.5
17	10.0	--	9.0	15.5	--	13.5	21.0	--	18.5	26.5	--	24.5	--	--	--	19.5	--	16.5
18	9.0	--	8.5	14.5	--	13.5	22.0	--	19.0	26.0	--	24.0	--	--	--	--	--	--
19	10.5	--	9.0	14.5	--	13.0	22.5	--	19.5	24.0	--	22.0	--	--	--	--	--	--
20	11.5	--	10.0	14.0	--	13.0	23.0	--	21.5	23.0	--	22.0	20.0	--	19.0	--	--	--
21	12.5	--	11.0	13.0	--	12.5	23.0	--	20.5	23.0	--	21.5	20.5	--	18.5	--	--	--
22	12.5	--	11.5	15.0	--	12.0	22.5	--	20.0	--	--	--	21.5	--	19.0	--	--	--
23	12.0	--	11.0	16.5	--	14.0	21.5	--	19.0	--	--	--	21.5	--	19.5	--	--	--
24	11.5	--	10.5	17.0	--	15.0	21.0	--	18.0	--	--	--	22.0	--	20.0	--	--	--
25	12.5	--	10.5	17.5	--	15.5	21.0	--	18.0	--	--	--	22.5	--	20.0	--	--	--
26	13.5	--	11.5	18.5	--	16.0	21.5	--	18.5	--	--	--	23.0	--	20.5	--	--	--
27	14.5	--	12.5	19.5	--	17.5	22.5	--	19.5	--	--	--	23.5	--	21.0	--	--	--
28	13.5	--	11.0	20.0	--	18.0	24.0	--	21.0	--	--	--	23.5	--	21.0	--	--	--
29	12.0	--	10.5	20.0	--	18.5	24.0	--	21.5	--	--	--	24.0	--	21.5	--	--	--
30	12.5	--	10.5	20.0	--	18.0	24.5	--	22.0	--	--	--	23.5	--	21.0	--	--	--
31	--	--	--	20.0	--	18.0	--	--	--	--	--	--	23.0	--	20.5	--	--	--
MONTH	14.5	--	7.5	20.0	--	11.5	24.5	--	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 mile downstream from Big Creek, 3.0 miles northeast of Hyampom, and 3.5 miles downstream from Hayfork Creek.
DRAINAGE AREA.--764 sq mi.
PERIOD OF RECORD.--Water temperatures: October 1965 to September 1972.
Sediment records: October 1966 to September 1970.
EXTREMES.--1971-72:
Water temperatures: Maximum, 28.0°C July 15; minimum, 2.5°C Jan. 15, 16.
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.
REMARKS.--Recorder stopped Dec. 23 to Jan. 12, Jan. 29 to Feb. 8, Mar. 3-17, Aug. 2 to Sept. 6; recorder malfunction May 16 to June 13, Sept. 7-30. Where no maximum or minimum is shown, temperature is once-daily reading.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCT MAX	OCT DAILY	OCT MIN	NOV MAX	NOV DAILY	NOV MIN	DEC MAX	DEC DAILY	DEC MIN	JAN MAX	JAN DAILY	JAN MIN	FEB MAX	FEB DAILY	FEB MIN	MAR MAX	MAR DAILY	MAR MIN
1	17.5	--	13.0	12.0	--	9.0	8.5	--	7.0	--	--	--	--	--	--	6.5	--	5.0
2	18.5	--	12.5	12.5	--	9.5	7.5	--	7.0	--	--	--	--	--	--	7.5	--	6.0
3	19.5	--	13.5	12.0	--	8.0	7.0	--	6.5	--	--	--	--	--	--	--	--	--
4	20.5	--	14.0	12.0	--	8.0	6.5	--	6.5	--	--	--	--	--	--	--	--	--
5	20.5	--	14.5	13.0	--	9.0	7.5	--	6.5	--	--	--	--	--	--	--	--	--
6	21.0	--	15.0	11.5	--	7.5	7.5	--	6.5	--	--	--	--	--	--	--	--	--
7	21.5	--	15.0	11.0	--	8.0	6.5	--	5.5	--	--	--	--	--	--	--	--	--
8	21.5	--	15.0	11.0	--	9.0	5.5	--	5.0	--	--	--	--	5.5	--	--	--	--
9	21.5	--	15.5	10.0	--	9.5	6.0	--	5.0	--	--	--	6.0	--	4.0	--	--	--
10	20.5	--	15.0	12.5	--	10.0	6.0	--	5.0	--	--	--	5.5	--	3.5	--	--	--
11	21.0	--	15.5	12.5	--	11.5	5.0	--	5.0	--	--	--	6.5	--	4.0	--	--	--
12	21.0	--	14.5	11.5	--	10.5	5.0	--	4.5	--	4.0	--	6.0	--	4.0	--	--	--
13	20.0	--	14.5	11.0	--	9.0	5.0	--	4.5	6.5	--	5.0	7.0	--	5.0	--	--	--
14	18.0	--	14.5	10.0	--	8.5	5.0	--	5.0	6.0	--	3.5	5.5	--	4.5	--	--	--
15	14.5	--	12.0	10.0	--	8.0	5.5	--	5.0	5.0	--	2.5	7.0	--	5.0	--	--	--
16	15.5	--	10.5	9.5	--	8.0	5.0	--	4.5	4.5	--	2.5	8.0	--	6.0	--	--	--
17	15.0	--	9.5	9.5	--	7.5	5.0	--	4.5	5.5	--	3.5	7.5	--	5.5	--	10.5	--
18	15.5	--	10.5	9.0	--	7.5	5.0	--	4.5	6.5	--	5.0	7.5	--	5.0	10.5	--	7.5
19	14.0	--	13.0	9.5	--	7.0	5.0	--	5.0	7.0	--	6.5	8.5	--	6.5	9.5	--	6.0
20	16.0	--	12.5	10.0	--	8.0	5.0	--	5.0	7.5	--	7.0	9.0	--	7.5	9.5	--	6.5
21	15.5	--	12.0	10.0	--	8.5	5.0	--	5.0	8.0	--	7.0	8.0	--	7.0	9.5	--	7.5
22	14.5	--	12.0	11.0	--	9.5	5.0	--	5.0	8.0	--	7.5	7.0	--	4.0	9.0	--	7.5
23	14.5	--	12.5	10.0	--	9.0	--	--	--	8.0	--	7.0	5.0	--	4.0	8.5	--	6.5
24	14.5	--	11.5	10.0	--	9.5	--	--	--	7.0	--	6.5	5.5	--	4.5	7.5	--	6.0
25	14.5	--	11.0	10.0	--	10.0	--	--	--	6.5	--	4.5	5.0	--	5.0	6.0	--	4.0
26	13.5	--	10.5	10.0	--	10.0	--	--	--	5.0	--	4.0	7.0	--	5.0	6.0	--	3.0
27	12.0	--	9.5	10.0	--	9.5	--	--	--	4.0	--	3.5	7.5	--	6.5	7.0	--	4.0
28	11.5	--	8.0	9.5	--	9.0	--	--	--	4.5	--	3.5	7.5	--	7.0	7.5	--	4.5
29	11.0	--	7.0	9.0	--	8.5	--	--	--	--	--	--	7.0	--	6.0	8.0	--	4.0
30	10.0	--	9.0	8.5	--	8.0	--	--	--	--	--	--	--	--	--	9.0	--	4.5
31	12.0	--	9.5	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	6.0
MONTH	21.5	--	7.0	13.0	--	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	9.0	--	7.0	15.5	--	8.0	--	--	--	26.5	--	19.5	24.0	--	17.0	--	--	--
2	11.5	--	8.5	16.5	--	9.0	--	--	--	26.5	--	20.0	--	--	--	--	--	--
3	12.0	--	8.5	17.0	--	10.0	--	--	--	26.5	--	20.5	--	--	--	--	--	--
4	12.0	--	9.5	17.5	--	10.5	--	--	--	26.5	--	19.5	--	--	--	--	--	--
5	11.5	--	9.0	17.5	--	11.0	--	--	--	26.5	--	19.0	--	--	--	--	--	--
6	10.0	--	7.5	16.5	--	10.0	--	--	--	25.0	--	19.0	--	--	--	--	19.0	--
7	9.5	--	7.0	13.0	--	10.5	--	--	--	24.5	--	17.0	--	--	--	--	--	--
8	9.5	--	6.0	15.5	--	10.0	--	--	--	24.5	--	17.0	--	--	--	--	--	--
9	9.5	--	6.0	16.5	--	11.0	--	--	--	23.5	--	17.0	--	--	--	--	--	--
10	10.0	--	6.0	17.5	--	11.0	--	--	--	23.5	--	16.5	--	--	--	--	--	--
11	8.0	--	6.0	18.0	--	10.5	--	--	--	25.0	--	17.5	--	--	--	--	--	--
12	6.5	--	4.5	19.5	--	12.0	--	--	--	25.5	--	18.5	--	--	--	--	--	--
13	8.0	--	4.5	20.0	--	12.5	--	--	--	25.5	--	18.0	--	--	--	--	--	--
14	10.0	--	6.0	20.0	--	13.5	21.5	--	15.5	26.5	--	20.0	--	--	--	--	--	--
15	11.0	--	7.0	19.5	--	13.5	21.0	--	16.5	28.0	--	20.5	--	--	--	--	--	--
16	10.0	--	6.0	--	14.0	--	21.5	--	15.5	27.5	--	20.5	--	--	--	--	--	--
17	9.0	--	4.5	--	--	--	22.0	--	15.0	27.0	--	20.5	--	--	--	--	--	--
18	9.0	--	4.5	--	--	--	23.5	--	16.5	25.0	--	20.5	--	--	--	--	--	--
19	11.0	--	5.0	--	--	--	24.0	--	16.5	25.0	--	18.0	--	--	--	--	--	--
20	12.5	--	7.0	--	--	--	24.0	--	17.5	25.0	--	18.0	--	--	--	--	--	--
21	13.5	--	8.5	--	--	--	24.0	--	17.5	25.5	--	17.5	--	--	--	--	--	--
22	13.5	--	7.5	--	--	--	23.5	--	16.5	25.5	--	18.0	--	--	--	--	--	--
23	11.5	--	8.5	--	--	--	21.0	--	16.0	25.5	--	18.0	--	--	--	--	--	--
24	10.5	--	8.5	--	--	--	21.5	--	15.5	25.5	--	17.5	--	--	--	--	--	--
25	13.0	--	7.5	--	--	--	22.0	--	15.5	25.5	--	17.5	--	--	--	--	--	--
26	14.5	--	8.5	--	--	--	23.5	--	16.0	25.5	--	17.0	--	--	--	--	--	--
27	15.5	--	9.5	--	--	--	24.5	--	17.0	25.5	--	17.0	--	--	--	--	--	--
28	12.5	--	8.0	--	--	--	25.0	--	18.5	25.5	--	17.5	--	--	--	--	--	--
29	12.5	--	6.5	--	--	--	25.0	--	18.5	23.5	--	18.0	--	--	--	--	--	--
30	13.5	--	6.5	--	--	--	26.0	--	18.5	25.5	--	17.5	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	24.5	--	17.0	--	--	--	--	--	--
MONTH	15.5	--	4.5	--	--	--	--	--	--	28.0	--	16.5	--	--	--	--	--	--

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 mile upstream from Supply Creek.

DRAINAGE AREA.--2,854 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1972.
Water temperatures: November 1956 to September 1972.
Sediment records: Water years 1955-56 (partial-record station), October 1956 to September 1972.
Prior to October 1964, published as "near Hoopa".

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 3,370 mg/l Mar. 3; minimum daily, 2 mg/l on several days during August and September.
Sediment discharge: Maximum daily, 813,000 tons Mar. 3; minimum daily, 2.7 tons Sept. 22-25.

Period of record:
Water temperatures: Maximum (1963-66, 1968-69), 27.0°C July 16, 1965; minimum (1964-71), 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 Dec. 23, 1964; minimum daily, 0.81 ton Sept. 30, 1969.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Nov. 10 to Jan. 11, Jan. 20-22, Sept. 7-30, recorder stopped; Apr. 3-7, Apr. 17 to Sept. 6, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading. Measurement of suspended sediment made at bridge on State Highway 96, 1.0 mile 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 1971 TO SEPTEMBER 1972

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)	CAR-BONATE (CO3) (MG/L)
OCT.									
19...	0930	--	692	--	--	--	--	--	--
NOV.									
09...	1145	--	770	22	8.5	4.6	.8	100	0
DEC.									
13...	1045	--	4210	--	--	3.4	--	78	0
JAN.									
10...	1100	2170	--	--	--	--	--	--	--
FEB.									
07...	1145	--	4910	--	--	2.6	--	87	0
MAR.									
06...	1030	--	31000	--	--	2.2	--	72	0
APR.									
10...	1015	--	5630	--	--	--	--	--	--
MAY									
01...	0955	--	3620	--	--	2.9	--	82	0
JUNE									
05...	0915	--	2100	--	--	--	--	--	--
JULY									
11...	0915	--	932	--	--	--	--	--	--
AUG.									
04...	0815	--	587	--	--	4.1	--	101	0
SEP.									
12...	1000	--	494	--	--	4.8	--	106	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (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)
OCT.									
19...	--	--	--	--	--	--	--	--	--
NOV.									
09...	82	6.4	5.2	.02	119	.16	247	90	8
DEC.									
13...	64	--	2.0	.05	--	--	--	72	8
JAN.									
10...	--	--	--	--	--	--	--	--	--
FEB.									
07...	71	--	1.9	.02	--	--	--	74	3
MAR.									
06...	59	--	2.4	.02	--	--	--	63	4
APR.									
10...	--	--	--	--	--	--	--	--	--
MAY									
01...	67	--	3.1	--	--	--	--	72	5
JUNE									
05...	--	--	--	--	--	--	--	--	--
JULY									
11...	--	--	--	--	--	--	--	--	--
AUG.									
04...	83	--	4.2	--	--	--	--	92	9
SEP.									
12...	87	--	6.1	--	--	--	--	96	9

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.							
19...	--	--	--	--	12.0	1	--
NOV.							
09...	10	.2	198	8.0	14.0	--	0
DEC.							
13...	--	.2	154	7.7	5.0	--	0
JAN.							
10...	--	--	--	--	5.0	7	--
FEB.							
07...	--	.1	157	7.8	6.5	21	0
MAR.							
06...	--	.1	130	7.6	9.0	170	0
APR.							
10...	--	--	--	--	9.0	23	--
MAY							
01...	--	.1	152	7.9	11.0	8	100
JUNE							
05...	--	--	--	--	17.0	4	--
JULY							
11...	--	--	--	--	19.5	1	--
AUG.							
04...	--	.2	202	7.8	21.5	1	0
SEP.							
12...	--	.2	209	7.7	17.0	0	0

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DISCHARGE (CFS)	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.							
19...	0930	--	692	198	7.7	12.0	10.0
NOV.							
09...	1145	--	770	175	7.6	14.0	11.6
10...	1300	--	2680	183	7.6	9.5	11.7
DEC.							
13...	1045	--	4210	160	7.5	5.0	12.7
JAN.							
10...	1100	2170	--	188	7.5	5.0	12.8
FEB.							
07...	1145	--	4910	152	7.5	6.5	12.3
MAR.							
06...	1030	--	31000	129	7.5	9.0	11.7
APR.							
10...	1015	--	5630	136	7.7	9.0	11.5
MAY							
01...	0955	--	3620	152	7.6	11.0	11.0
JUNE							
05...	0915	--	2100	132	7.7	17.0	9.6
JULY							
11...	0915	--	932	167	8.0	19.5	9.1
AUG.							
04...	0815	--	587	208	7.8	21.5	8.8
SEP.							
12...	1000	--	494	194	7.9	17.0	9.7

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	9.0	--	7.5	10.0	--	10.0	--	7.0	--	--	--	--	6.0	--	5.5	7.5	--	6.5
2	10.0	--	7.5	10.0	--	10.0	--	7.5	--	--	6.0	--	5.5	--	5.5	8.0	--	6.0
3	9.5	--	8.0	10.0	--	10.0	--	8.0	--	--	--	--	6.0	--	5.5	8.0	--	7.5
4	10.5	--	7.5	10.0	--	10.0	--	7.0	--	--	5.0	--	6.0	--	6.0	8.0	--	8.0
5	13.0	--	9.5	10.5	--	10.0	--	--	--	--	5.0	--	6.0	--	6.0	8.0	--	7.0
6	13.5	--	10.5	10.5	--	10.0	--	6.5	--	--	--	--	6.5	--	6.0	9.0	--	8.0
7	14.0	--	12.5	10.5	--	10.0	--	--	--	--	5.0	--	6.5	--	6.0	9.0	--	9.0
8	14.5	--	12.5	10.5	--	10.0	--	6.5	--	--	--	--	6.5	--	6.5	9.5	--	9.0
9	14.5	--	13.0	10.0	--	10.0	--	6.0	--	--	--	--	6.5	--	6.5	9.5	--	9.5
10	14.5	--	13.0	--	10.0	--	--	5.5	--	--	--	--	6.5	--	6.5	9.5	--	9.0
11	14.5	--	13.0	--	11.0	--	--	--	--	--	--	--	6.5	--	6.5	10.0	--	9.5
12	14.5	--	13.0	--	10.0	--	--	5.5	--	5.0	--	4.5	7.5	--	6.5	10.0	--	10.0
13	14.0	--	13.0	--	11.0	--	--	5.0	--	5.0	--	4.5	8.5	--	7.5	10.5	--	10.0
14	13.5	--	12.5	--	--	--	--	6.5	--	6.0	--	4.5	8.0	--	8.0	10.5	--	10.0
15	12.5	--	12.0	--	8.0	--	--	5.5	--	5.0	--	4.5	8.0	--	8.0	10.0	--	10.0
16	12.5	--	11.5	--	--	--	--	--	--	5.0	--	4.0	8.5	--	8.0	10.0	--	9.0
17	12.0	--	11.0	--	9.0	--	--	5.5	--	5.0	--	4.0	8.5	--	8.5	9.0	--	8.0
18	12.0	--	11.5	--	--	--	--	--	--	5.0	--	5.0	9.0	--	8.5	9.0	--	8.0
19	12.0	--	11.5	--	--	--	--	6.0	--	5.0	--	5.0	8.5	--	8.5	8.5	--	7.5
20	12.5	--	11.5	--	8.0	--	--	--	--	--	--	--	9.0	--	8.5	8.0	--	7.0
21	12.5	--	11.5	--	--	--	--	--	--	--	--	--	9.5	--	9.0	8.0	--	7.0
22	12.0	--	11.5	--	8.0	--	--	5.5	--	--	--	--	9.5	--	9.0	7.0	--	7.0
23	12.0	--	11.5	--	--	--	--	10.0	--	6.5	--	6.0	9.0	--	8.5	7.0	--	6.0
24	11.5	--	11.0	--	8.0	--	--	5.5	--	6.0	--	5.5	8.5	--	7.0	6.0	--	6.0
25	11.5	--	10.5	--	8.0	--	--	6.0	--	6.0	--	6.0	7.5	--	7.0	6.0	--	5.0
26	11.0	--	10.5	--	9.0	--	--	5.5	--	6.5	--	6.0	7.5	--	6.5	7.0	--	5.0
27	11.0	--	10.0	--	8.0	--	--	5.5	--	6.0	--	6.0	7.5	--	6.5	7.5	--	7.0
28	10.0	--	9.5	--	7.5	--	--	6.0	--	6.0	--	6.0	8.0	--	7.5	7.0	--	6.5
29	10.0	--	9.0	--	8.0	--	--	5.5	--	6.5	--	5.5	7.5	--	7.5	7.5	--	7.0
30	10.0	--	9.5	--	8.0	--	--	5.0	--	5.5	--	5.0	--	--	--	8.0	--	7.0
31	10.0	--	10.0	--	--	--	--	5.5	--	6.0	--	5.5	--	--	--	8.0	--	7.0
MONTH	14.5	--	7.5	--	--	--	--	--	--	--	--	--	9.5	--	5.5	10.5	--	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	8.0	--	7.0	--	15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
2	8.0	--	6.0	--	--	--	--	21.0	--	--	--	--	--	--	--	--	--	--
3	--	--	--	--	15.0	--	--	--	--	--	--	--	--	26.0	--	--	--	--
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5	--	--	--	--	14.5	--	--	--	--	--	--	--	--	--	--	--	--	--
6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24.0	--
7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
8	10.0	--	9.5	--	15.0	--	--	--	--	--	--	--	--	28.0	--	--	--	--
9	10.0	--	9.5	--	--	--	--	--	--	--	--	--	--	26.0	--	--	19.0	--
10	10.0	--	9.0	--	15.0	--	--	--	--	--	--	--	--	23.0	--	--	21.0	--
11	9.5	--	9.0	--	--	--	--	--	--	--	--	--	--	25.0	--	--	18.0	--
12	9.5	--	9.0	--	14.0	--	--	--	--	--	--	--	--	22.0	--	--	22.0	--
13	9.5	--	9.0	--	--	--	--	--	--	--	--	--	--	18.0	--	--	20.0	--
14	10.0	--	9.5	--	--	--	--	--	--	--	--	--	--	--	--	--	21.0	--
15	10.0	--	9.0	--	17.0	--	--	--	--	--	--	--	--	17.0	--	--	20.0	--
16	10.0	--	9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	22.0	--
17	--	12.5	--	--	16.5	--	--	--	--	--	--	--	--	18.5	--	--	20.0	--
18	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22.0	--
19	--	12.5	--	--	17.0	--	--	--	--	--	22.0	--	--	19.0	--	--	17.0	--
20	--	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	--	15.0	--
21	--	13.0	--	--	--	--	--	--	--	--	--	--	--	21.0	--	--	16.0	--
22	--	--	--	--	--	--	--	--	--	--	--	--	--	19.0	--	--	16.0	--
23	--	--	--	--	--	--	--	--	--	--	--	--	--	24.0	--	--	16.0	--
24	--	14.5	--	--	17.0	--	--	--	--	--	--	--	--	24.0	--	--	15.0	--
25	--	--	--	--	--	--	--	--	--	--	--	--	--	19.0	--	--	15.0	--
26	--	13.5	--	--	19.0	--	--	--	--	--	--	--	--	19.0	--	--	--	--
27	--	--	--	--	18.0	--	--	--	--	--	--	--	--	--	--	--	--	--
28	--	14.5	--	--	--	--	--	--	--	--	--	--	--	19.0	--	--	18.0	--
29	--	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	--	18.0	--
30	--	--	--	--	20.0	--	--	--	--	--	--	--	--	21.0	--	--	20.0	--
31	--	--	--	--	--	--	--	--	--	--	--	--	--	19.0	--	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	1070	8	23	873	8	19	4760	232	2980
2	906	8	20	842	8	18	3960	282	3020
3	842	6	14	830	6	18	3830	190	1960
4	824	5	11	812	8	18	3350	170	1540
5	824	5	11	800	7	15	3960	290	3390
6	794	6	13	794	6	13	11600	946	30700
7	758	6	12	788	5	11	7750	532	11100
8	728	7	14	782	5	11	4980	304	4090
9	710	8	15	860	10	23	5650	392	6090
10	692	9	17	2220	160	1080	5850	318	5020
11	668	10	18	1960	155	820	4910	270	3580
12	656	15	27	1970	135	718	4820	334	4350
13	644	20	35	3060	306	2700	4200	238	2700
14	638	19	33	3020	205	1670	3920	230	2430
15	626	18	30	1940	100	524	3880	198	2070
16	626	18	30	1540	36	150	3410	150	1380
17	668	17	31	1320	8	29	3130	108	913
18	686	16	30	1200	8	26	3030	88	720
19	722	17	33	1130	8	24	2960	74	591
20	893	20	48	1100	12	36	2890	68	531
21	886	15	36	1100	19	56	2870	69	535
22	834	12	27	1090	30	88	5260	224	3510
23	873	20	47	1050	34	96	7400	493	10000
24	932	25	63	1170	24	76	6330	438	7680
25	873	20	47	1380	342	1270	6410	458	7930
26	842	18	41	5950	1420	27100	5240	358	5060
27	842	15	34	10400	830	25100	4420	278	3320
28	842	12	27	10500	578	16600	3800	196	2010
29	812	10	22	10200	292	8040	3410	138	1270
30	824	10	22	7200	257	5000	3130	104	879
31	886	9	22	--	--	--	2880	90	700
TOTAL	24421	--	853	77881	--	91349	143990	--	132049

	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	2730	75	553	5850	344	5430	33300	1000	89900
2	2640	61	435	5330	324	4660	62600	2910	513000
3	2610	49	345	4940	310	4130	85200	3370	813000
4	2650	43	308	4960	295	3950	55000	2280	339000
5	2550	40	275	5160	274	3820	40100	1130	122000
6	2570	40	278	4960	220	2950	30400	620	50900
7	2490	41	276	4890	150	1980	23400	550	34700
8	2380	42	270	4870	113	1490	18800	540	27400
9	2240	41	248	4820	102	1330	16300	530	23300
10	2170	40	234	4710	100	1270	15900	500	21500
11	2160	40	233	4570	100	1230	15300	520	21500
12	2240	40	242	4440	98	1170	14400	510	19800
13	2470	47	313	4440	97	1160	14800	510	20400
14	2680	43	311	4660	164	2060	13300	500	18000
15	2570	37	257	4800	192	2490	11600	500	15700
16	2530	37	253	4620	162	2020	11000	500	14900
17	2570	50	347	4480	156	1890	10900	490	14400
18	3380	110	1000	4280	198	2290	10400	480	13500
19	5610	230	3480	4160	172	1930	9200	370	9190
20	7200	400	7780	5490	195	2880	8250	280	6240
21	23700	1590	126000	5710	126	1940	7600	240	4920
22	58700	2740	435000	6350	208	3760	8450	420	9580
23	64500	2560	464000	7880	349	7460	8550	500	11500
24	36000	1150	112000	11200	516	15600	9150	400	9880
25	23600	910	58000	10400	380	10700	11600	531	16900
26	16200	650	28400	15800	590	25200	9680	340	8890
27	11700	510	16100	20300	880	48200	8250	200	4460
28	9580	450	11600	36900	1040	108000	7150	190	3670
29	7950	418	8970	47000	1730	225000	6630	180	3220
30	6850	404	7470	--	--	--	6130	170	2810
31	6250	378	6380	--	--	--	5830	160	2520
TOTAL	323470	--	1291358	257970	--	495990	589170	--	2266680

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	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	5650	148	2260	3440	100	929	2670	28	202
2	6010	140	2270	3440	80	743	2520	22	150
3	5990	130	2100	3510	74	701	2410	22	143
4	5730	123	1900	3570	80	771	2220	22	132
5	6680	176	3290	3700	100	999	2170	20	117
6	7830	172	3640	3680	95	944	2280	20	123
7	7280	142	2790	3510	90	853	2360	20	127
8	6550	123	2180	3350	88	796	2450	19	126
9	5930	108	1730	3060	100	826	2540	19	130
10	5570	100	1500	2940	117	929	2910	18	141
11	5630	106	1610	2890	100	780	2260	18	110
12	7130	184	3540	2940	109	865	1930	17	89
13	7130	164	3160	3100	110	921	1770	17	81
14	6530	125	2200	3300	110	980	1740	16	75
15	6680	110	1980	3360	115	1040	1840	16	79
16	6850	104	1920	3220	100	869	1840	15	75
17	6510	101	1780	3330	84	755	1790	15	72
18	5870	98	1550	2920	70	552	1760	15	71
19	5490	98	1450	2660	63	452	1720	14	65
20	4940	98	1310	2800	58	438	1680	14	64
21	4710	97	1230	3240	52	455	1690	14	64
22	4530	95	1160	2980	45	362	1610	13	57
23	4440	92	1100	2680	39	282	1520	13	53
24	4620	152	1900	2570	32	222	1460	13	51
25	4330	150	1750	2560	50	346	1370	12	44
26	4080	140	1540	2610	66	465	1320	12	43
27	3880	136	1420	2750	56	416	1310	12	42
28	3910	134	1410	2850	50	385	1340	11	40
29	3780	132	1350	2980	45	362	1380	11	41
30	3570	130	1250	2910	40	314	1390	11	41
31	--	--	--	2850	34	262	--	--	--
TOTAL	167830	--	58270	95700	--	20014	57250	--	2648

	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	1370	10	37	638	7	12	466	3	3.8
2	1300	10	35	604	7	11	461	3	3.7
3	1250	10	34	593	6	9.6	483	5	6.5
4	1200	10	32	582	6	9.4	499	5	6.7
5	1140	10	31	576	5	7.8	505	5	6.8
6	1090	9	26	560	5	7.6	554	8	12
7	1030	9	25	549	4	5.9	532	6	8.6
8	1000	9	24	543	4	5.9	527	6	8.5
9	971	9	24	538	4	5.8	488	6	7.9
10	951	9	23	521	4	5.6	461	9	11
11	932	8	20	521	2	2.8	477	6	7.7
12	932	8	20	549	4	5.9	499	7	9.4
13	919	8	20	560	3	4.5	510	4	5.5
14	919	8	20	516	3	4.2	516	6	8.4
15	893	8	19	516	2	2.8	516	3	4.2
16	893	7	17	532	7	10	505	4	5.5
17	873	7	16	587	10	16	499	3	4.0
18	854	7	16	615	6	10	488	4	5.3
19	824	7	16	598	4	6.5	488	6	7.9
20	794	7	15	587	4	6.3	488	4	5.3
21	770	7	15	587	8	13	488	4	5.3
22	746	6	12	576	6	9.3	494	2	2.7
23	734	6	12	560	6	9.1	494	2	2.7
24	716	6	12	549	4	5.9	494	2	2.7
25	698	5	9.4	538	3	4.4	499	2	2.7
26	686	5	9.3	532	3	4.3	632	22	38
27	674	5	9.1	516	3	4.2	1150	170	528
28	656	4	7.1	499	10	13	1150	60	186
29	650	4	7.0	483	5	6.5	860	16	37
30	656	4	7.1	477	3	3.9	740	12	24
31	710	8	15	472	3	3.8	--	--	--
TOTAL	27831	--	585.0	17074	--	227.0	16963	--	967.8

TOTAL DISCHARGE FOR YEAR (CFS-DAYS) 1799550
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS) 4360990.8

11530000 TRINITY RIVER AT HOOPÅ, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.											
10...	1850	10.0	1950	205	1080	--	--	--	--	--	--
26...	1600	9.0	8180	1670	36900	18	24	32	40	47	56
DEC.											
02...	1600	7.5	3970	314	3370	--	--	--	--	--	--
06...	1900	6.5	10900	903	26600	17	22	28	33	38	46
12...	1605	5.5	4910	393	5210	--	--	--	--	--	--
JAN.											
19...	1615	5.0	6030	249	4050	--	--	--	--	--	--
21...	1530	7.5	31000	2120	177000	15	23	32	42	51	67
22...	1710	8.0	64400	2690	468000	16	21	33	46	58	69
24...	1540	--	33300	1020	91700	12	20	28	36	44	58
26...	1705	--	15100	600	24500	--	--	--	--	--	--
FEB.											
07...	1700	6.0	4770	138	1780	--	--	--	--	--	--
29...	1930	--	41500	1340	150000	10	18	25	35	43	58
MAR.											
02...	1745	--	71100	2370	455000	15	17	30	41	52	62
03...	0700	--	94700	4450	1140000	21	28	51	62	70	74
03...	1805	--	75900	1770	363000	11	19	28	38	45	60
04...	1835	--	49100	2760	366000	16	20	32	43	56	66
05...	1800	--	37200	788	79100	16	28	40	54	63	88
07...	1820	--	21700	549	32200	24	28	37	47	68	84

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
NOV.											
10...	54	--	55	--	61	--	70	--	92	--	100
26...	--	63	--	74	--	90	--	100	--	--	--
DEC.											
02...	59	--	59	--	62	--	75	--	96	--	100
06...	--	51	--	64	--	90	--	100	--	--	--
12...	46	--	47	--	49	--	66	--	89	--	100
JAN.											
19...	40	--	45	--	56	--	77	--	95	--	100
21...	--	77	--	90	--	99	--	100	--	--	--
22...	--	80	--	94	--	99	--	100	--	--	--
24...	--	66	--	86	--	99	--	100	--	--	--
26...	45	--	47	--	57	--	85	--	97	--	100
FEB.											
07...	33	--	33	--	38	--	61	--	93	--	100
29...	--	68	--	89	--	100	--	--	--	--	--
MAR.											
02...	--	74	--	93	--	100	--	--	--	--	--
03...	--	85	--	96	--	100	--	--	--	--	--
03...	--	69	--	88	--	97	--	100	--	--	--
04...	--	76	--	92	--	99	--	100	--	--	--
05...	--	90	--	94	--	99	--	100	--	--	--
07...	--	85	--	88	--	98	--	98	--	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 downstream from West Fork, 3.0 miles upstream from mouth, and 9.2 miles southeast of Klamath.

DRAINAGE AREA.--120 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1972.

EXTREMES.--1971-72:
Water temperatures: Maximum, 21.5°C on several days during July and August; minimum, 4.5°C Feb. 2.

Period of record:
Water temperatures: Maximum, 27.0°C July 23, 1970; minimum, 4.0°C Feb. 15, Mar. 3, 1967, Jan. 12, 13, 1971.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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

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

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.
(International Hydrological Decade River 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 miles upstream from Turwar Creek, and 3.3 miles east of Klamath.

DRAINAGE AREA.--12,100 sq mi, 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 September 1972.
Water temperatures: November 1965 to September 1972.
Sediment records: Water years 1955-56 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Minimum, 2.5°C Feb. 2.

Period of record:
Water temperatures: Maximum (1966-68, 1970-71), 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. 1 to Nov. 1, recorder malfunction; June 26 to Aug. 21, probe inoperative. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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.											
19...	1400	5500	--	22	30	19	8.8	11	1.7	110	0
NOV.											
10...	0745	--	9470	19	30	15	6.2	9.1	1.4	80	0
DEC.											
14...	0815	--	26100	17	150	13	6.4	6.1	1.4	73	0
JAN.											
10...	1545	--	11400	20	120	17	7.6	7.3	1.6	96	0
FEB.											
07...	1530	--	19500	18	50	15	6.4	4.9	1.0	81	0
MAR.											
07...	0930	--	92100	20	10	13	5.5	4.0	1.3	75	0
APR.											
10...	1500	--	25200	18	10	22	11	4.3	1.1	115	0
MAY											
02...	0830	--	17000	15	40	14	5.8	4.9	.9	76	0
JUNE											
06...	0845	--	10800	13	10	14	5.4	3.0	1.0	73	0
JULY											
12...	0715	--	3780	14	20	19	7.6	5.5	1.2	95	0
AUG.											
02...	0730	--	2580	13	10	22	8.2	7.1	1.5	106	0
SEP.											
12...	1345	3090	--	17	20	20	8.8	10	1.9	111	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)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)
OCT.											
19...	90	15	4.6	.1	.33	.14	138	.19	2050	84	0
NOV.											
10...	66	12	4.0	.0	.45	.16	109	.15	2790	63	0
DEC.											
14...	60	11	4.4	.1	.28	.12	97	.13	6840	59	0
JAN.											
10...	79	12	3.3	.1	.38	.07	118	.16	3630	74	0
FEB.											
07...	66	7.3	2.6	.1	.27	.11	97	.13	5110	64	0
MAR.											
07...	62	6.7	1.2	.1	.08	.60	89	.12	22100	55	0
APR.											
10...	94	11	2.4	.1	.01	.10	127	.17	8640	100	6
MAY											
02...	62	8.2	2.0	.0	.15	.04	89	.12	4090	59	0
JUNE											
06...	59	6.9	2.1	.0	.00	.05	81	.11	2360	57	0
JULY											
12...	77	10	4.0	.1	.00	.04	108	.15	1100	79	1
AUG.											
02...	86	11	3.3	.1	.00	.05	119	.16	829	89	2
SEP.											
12...	91	12	4.3	.2	.01	.10	129	.18	1080	86	0

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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 BORON (B) (UG/L)	DIS-SOLVED LITHIUM (LI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
OCT.									
19...	22	.5	209	8.0	13.0	7	70	50	160
NOV.									
10...	23	.5	158	7.2	9.0	40	260	0	170
DEC.									
14...	18	.3	145	7.6	6.5	40	30	0	140
JAN.									
10...	17	.4	174	7.6	6.5	10	50	0	120
FEB.									
07...	14	.3	150	7.7	7.0	50	30	0	110
MAR.									
07...	13	.2	126	7.7	9.0	200	30	0	70
APR.									
10...	8	.2	205	7.3	14.5	9	40	0	160
MAY									
02...	15	.3	140	7.0	13.0	20	40	0	120
JUNE									
06...	10	.2	130	8.1	18.0	10	40	0	110
JULY									
12...	13	.3	175	7.7	19.0	1	50	10	50
AUG.									
02...	15	.3	200	8.0	20.5	3	100	0	110
SEP.									
12...	20	.5	212	7.8	19.0	4	100	0	110

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
OCT.						
19...	1400	5500	--	7.7	13.0	10.7
NOV.						
10...	0745	--	9470	7.3	9.0	11.3
DEC.						
14...	0815	--	26100	7.3	6.5	12.6
JAN.						
10...	1545	--	11400	7.4	6.5	12.7
FEB.						
07...	1530	--	19500	7.6	7.0	12.0
MAR.						
07...	0930	--	92100	7.4	9.0	11.1
APR.						
10...	1500	--	25200	7.2	14.5	9.2
MAY						
02...	0830	--	17000	7.6	13.0	10.8
JUNE						
06...	0845	--	10800	7.6	18.0	8.9
JULY						
12...	0715	--	3780	8.0	19.0	8.3
AUG.						
02...	0730	--	2580	7.9	20.5	7.9
SEP.						
12...	1345	3090	--	8.1	19.0	9.9

RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (PC/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (PC/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)
NOV.							
01...	1335	6050	130	<.5	.2	<1.4	.5
JAN.							
23...	1130	247000	63	<.2	36	<.5	110
AUG.							
14...	1330	2580	120	.5	<.1	1.6	<.4

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 URANIUM (U) (UG/L)
NOV.						
01...	3.4	.7	2.7	.6	.03	.13
JAN.						
23...	1.5	74	1.2	63	.03	.11
AUG.						
14...	2.4	.7	1.9	.6	.06	.13

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	--	--	--	--	--	--	9.0	--	9.0	6.0	--	6.0	4.5	--	4.5	8.0	--	7.5
2	--	--	--	10.5	--	10.0	9.0	--	7.5	6.0	--	5.5	4.5	--	2.5	8.0	--	7.5
3	--	--	--	10.5	--	9.5	7.5	--	7.0	5.5	--	5.5	3.5	--	3.5	8.5	--	8.0
4	--	--	--	10.5	--	10.0	7.0	--	7.0	5.5	--	5.0	4.0	--	3.5	9.5	--	8.5
5	--	--	--	11.0	--	11.0	7.5	--	7.0	5.0	--	4.5	5.0	--	4.0	10.0	--	9.5
6	--	--	--	11.0	--	10.5	7.5	--	5.0	4.5	--	4.0	5.5	--	4.5	10.0	--	10.0
7	--	--	--	10.5	--	10.5	7.5	--	7.0	4.5	--	4.5	6.0	--	5.5	10.0	--	10.0
8	--	--	--	10.5	--	10.0	7.0	--	6.5	4.5	--	4.5	6.0	--	6.0	10.0	--	10.0
9	--	--	--	10.0	--	10.0	6.5	--	6.0	4.5	--	4.5	6.5	--	6.0	10.0	--	10.0
10	--	--	--	10.5	--	10.0	6.5	--	6.5	5.0	--	4.5	6.5	--	6.5	10.0	--	10.0
11	--	--	--	10.5	--	10.5	6.5	--	6.0	5.0	--	5.0	6.5	--	6.5	10.0	--	10.0
12	--	--	--	10.5	--	10.0	6.0	--	6.0	5.5	--	5.0	6.5	--	6.5	10.5	--	10.0
13	--	--	--	10.0	--	10.0	6.0	--	6.0	6.0	--	5.5	7.0	--	6.5	10.5	--	10.5
14	--	--	--	10.0	--	10.0	6.0	--	5.5	6.0	--	6.0	7.0	--	7.0	10.5	--	10.5
15	--	--	--	10.0	--	9.5	6.0	--	6.0	6.0	--	6.0	7.5	--	7.0	11.0	--	10.5
16	--	--	--	9.5	--	8.5	6.0	--	6.0	6.0	--	5.5	8.0	--	7.5	11.5	--	11.0
17	--	--	--	8.5	--	8.5	6.0	--	6.0	5.5	--	5.5	8.5	--	8.0	11.5	--	11.5
18	--	--	--	8.5	--	8.5	6.0	--	6.0	5.5	--	5.5	8.5	--	8.5	11.5	--	11.5
19	--	--	--	8.5	--	8.0	6.0	--	6.0	6.5	--	5.5	8.5	--	8.0	11.5	--	11.0
20	--	--	--	8.5	--	8.0	6.0	--	6.0	6.5	--	6.5	8.5	--	8.5	11.0	--	11.0
21	--	--	--	8.5	--	8.5	6.0	--	6.0	7.0	--	6.5	9.0	--	8.5	11.0	--	11.0
22	--	--	--	9.0	--	8.5	6.0	--	6.0	7.0	--	7.0	9.0	--	8.5	11.0	--	11.0
23	--	--	--	9.0	--	9.0	6.0	--	6.0	7.0	--	6.5	8.5	--	7.0	11.0	--	11.0
24	--	--	--	9.5	--	9.0	6.0	--	6.0	6.5	--	6.5	7.5	--	7.5	11.0	--	10.5
25	--	--	--	9.0	--	9.0	6.5	--	6.0	6.5	--	6.0	7.5	--	7.5	10.5	--	9.5
26	--	--	--	9.0	--	9.0	6.5	--	6.0	6.0	--	5.5	7.5	--	7.5	9.5	--	9.0
27	--	--	--	9.0	--	9.0	6.0	--	6.0	5.5	--	5.0	8.0	--	7.5	9.5	--	9.0
28	--	--	--	9.0	--	9.0	6.0	--	5.5	5.0	--	5.0	8.0	--	8.0	10.0	--	9.5
29	--	--	--	9.0	--	9.0	5.5	--	5.5	5.0	--	5.0	8.0	--	8.0	10.5	--	10.0
30	--	--	--	9.0	--	9.0	5.5	--	5.5	5.0	--	4.5	--	--	--	10.5	--	10.0
31	--	--	--	--	--	--	6.0	--	5.5	4.5	--	4.5	--	--	--	10.5	--	10.5
MONTH	--	--	--	11.0	--	8.0	9.0	--	5.0	7.0	--	4.0	9.0	--	2.5	11.5	--	7.5

DAY	APR MAX	APR DAILY	APR MIN	MAY MAX	MAY DAILY	MAY MIN	JUN MAX	JUN DAILY	JUN MIN	JUL MAX	JUL DAILY	JUL MIN	AUG MAX	AUG DAILY	AUG MIN	SEP MAX	SEP DAILY	SEP MIN
1	10.5	--	10.5	12.0	--	11.5	16.5	--	16.5	--	--	--	--	--	--	22.5	--	20.5
2	11.5	--	10.5	12.5	--	12.0	16.5	--	16.5	--	--	--	--	20.5	--	21.5	--	20.0
3	12.0	--	11.5	13.5	--	12.5	16.5	--	16.5	--	--	--	--	--	--	21.5	--	20.0
4	12.5	--	12.0	14.0	--	13.5	16.5	--	16.5	--	--	--	--	--	--	21.0	--	20.0
5	12.5	--	12.5	14.0	--	14.0	17.0	--	16.5	--	--	--	--	--	--	20.5	--	19.5
6	12.5	--	12.0	14.0	--	14.0	18.0	--	17.5	--	--	--	--	--	--	21.5	--	19.5
7	12.0	--	11.5	14.0	--	13.5	18.0	--	18.0	--	--	--	--	--	--	20.5	--	19.0
8	11.5	--	11.0	13.5	--	13.0	18.0	--	18.0	--	--	--	--	--	--	20.0	--	18.5
9	11.0	--	10.5	13.0	--	13.0	18.0	--	18.0	--	--	--	--	--	--	19.5	--	18.5
10	10.5	--	10.5	13.5	--	13.0	18.0	--	16.5	--	--	--	--	--	--	19.0	--	17.5
11	10.5	--	10.5	14.0	--	13.5	16.5	--	16.0	--	--	--	--	--	--	18.0	--	17.0
12	10.5	--	10.0	15.0	--	14.0	16.0	--	16.0	--	19.0	--	--	--	--	17.5	--	16.5
13	10.0	--	9.0	15.5	--	15.0	17.0	--	16.0	--	--	--	--	--	--	17.5	--	16.0
14	10.0	--	9.5	15.5	--	15.5	17.5	--	16.5	--	--	--	--	21.5	--	17.5	--	16.0
15	11.0	--	10.0	15.5	--	15.5	17.5	--	17.5	--	--	--	--	--	--	17.5	--	16.0
16	11.5	--	11.0	15.5	--	15.0	18.0	--	17.5	--	--	--	--	--	--	17.5	--	16.0
17	11.5	--	11.0	15.0	--	10.5	18.5	--	18.0	--	--	--	--	--	--	17.5	--	16.0
18	11.0	--	9.5	14.0	--	14.0	19.0	--	18.5	--	--	--	--	--	--	17.0	--	16.0
19	10.5	--	10.0	14.0	--	14.0	20.0	--	19.0	--	--	--	--	--	--	16.5	--	15.5
20	11.0	--	10.5	14.0	--	14.0	20.0	--	19.5	--	--	--	--	--	--	16.0	--	14.5
21	11.5	--	11.0	14.0	--	13.5	20.0	--	20.0	--	--	--	--	--	--	15.5	--	14.0
22	12.0	--	11.5	13.5	--	13.0	20.5	--	20.0	--	--	--	21.5	--	19.5	16.0	--	14.5
23	12.0	--	12.0	13.5	--	13.0	20.5	--	19.5	--	--	--	21.0	--	20.0	15.5	--	14.0
24	12.0	--	11.0	14.5	--	13.5	19.5	--	19.0	--	--	--	22.0	--	20.5	14.5	--	13.5
25	11.0	--	11.0	15.0	--	10.5	20.0	--	19.0	--	--	--	22.0	--	20.0	14.5	--	13.5
26	11.5	--	11.0	15.5	--	15.0	--	--	--	--	--	--	22.5	--	20.5	13.5	--	13.0
27	12.5	--	11.5	15.5	--	15.5	--	--	--	--	--	--	22.5	--	21.5	14.0	--	13.0
28	12.5	--	12.5	16.0	--	16.0	--	--	--	--	--	--	22.0	--	20.5	14.0	--	13.0
29	12.5	--	12.0	16.5	--	16.0	--	--	--	--	--	--	21.5	--	20.5	14.5	--	13.5
30	12.0	--	11.5	16.5	--	16.5	--	--	--	--	--	--	22.5	--	20.5	15.0	--	13.5
31	--	--	--	16.5	--	16.5	--	--	--	--	--	--	22.5	--	21.0	--	--	--
MONTH	12.5	--	9.0	16.5	--	10.5	--	--	--	--	--	--	--	--	--	22.5	--	13.0

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 mile downstream from South Fork, and 8 miles east of Crescent City.

DRAINAGE AREA.--609 sq mi.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1972.
Water temperatures: October 1965 to September 1972.
Sediment records: Water years 1955-56 (partial-record station).

EXTREMES.--1971-72:
Water temperatures: Maximum, 24.5°C July 15; minimum, 4.0°C Feb. 2.

Period of record:
Water temperatures: Maximum (1966-69, 1970-72), 24.5°C July 15, 1972; minimum (1966-70, 1971-72), 3.5°C Jan. 6, 1970.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. No thermograph record Oct. 23-27, Feb. 29 to Apr. 25, recorder stopped. Where no maximum or minimum is shown, temperature is once-daily reading.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)	NONCARBONATE HARDNESS (MG/L)
OCT.									
19...	1510	513	--	--	--	--	--	--	--
NOV.									
09...	1630	895	2.2	66	0	54	2.7	58	4
DEC.									
13...	1610	9000	--	--	--	--	--	--	--
JAN.									
11...	0900	2490	--	--	--	--	--	--	--
FEB.									
07...	1700	5510	1.4	52	0	43	1.6	44	1
MAR.									
07...	0800	9400	1.7	46	0	38	3.2	38	0
APR.									
11...	0810	5300	--	--	--	--	--	--	--
MAY									
02...	0645	2390	2.0	51	0	42	3.5	44	2
JUNE									
06...	0715	870	--	--	--	--	--	--	--
JULY									
11...	1430	450	--	--	--	--	--	--	--
AUG.									
01...	1430	316	--	--	--	--	--	--	--
SEP.									
12...	1530	212	--	--	--	--	--	--	--

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.						
19...	--	--	--	12.0	1	--
NOV.						
09...	.1	119	7.6	11.0	--	0
DEC.						
13...	--	--	--	7.0	14	--
JAN.						
11...	--	--	--	7.0	3	--
FEB.						
07...	.1	88	7.5	8.0	--	0
MAR.						
07...	.1	80	7.6	8.0	66	0
APR.						
11...	--	--	--	8.0	15	--
MAY						
02...	.1	93	7.4	9.5	1	100
JUNE						
06...	--	--	--	16.0	3	--
JULY						
11...	--	--	--	20.0	0	--
AUG.						
01...	--	--	--	21.0	0	--
SEP.						
12...	--	--	--	19.0	0	--

11532500 SMITH RIVER NEAR CRESCENT CITY, CALIF.--Continued

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
19...	1510	513	132	7.7	12.0	11.3
NOV.						
09...	1630	895	122	7.3	11.0	12.3
DEC.						
13...	1610	9000	85	7.3	7.0	13.3
JAN.						
11...	0900	2490	107	7.3	7.0	12.8
FEB.						
07...	1700	5510	89	7.2	8.0	12.4
MAR.						
07...	0800	9400	79	7.3	8.0	12.6
APR.						
11...	0810	5300	82	7.4	8.0	12.3
MAY						
02...	0645	2390	90	7.3	9.5	12.0
JUNE						
06...	0715	870	107	8.1	16.0	9.6
JULY						
11...	1430	450	136	8.1	20.0	9.7
AUG.						
01...	1430	316	144	8.1	21.0	9.9
SEP.						
12...	1530	212	152	8.1	19.0	10.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	12.0	10.5	14.0	13.5	8.5	7.5	6.5	6.0	5.5	5.0	-- --	-- --
2	12.5	10.5	14.0	12.5	8.5	7.0	6.0	6.0	5.0	4.0	-- --	-- --
3	13.5	11.5	12.5	11.5	7.5	7.0	6.0	5.0	6.0	5.0	-- --	-- --
4	14.5	12.5	12.5	11.5	7.5	7.5	5.0	4.5	6.5	6.0	-- 8.0	-- --
5	15.0	13.0	12.5	11.5	9.0	7.5	5.0	4.5	7.0	6.0	-- --	-- --
6	15.0	13.5	12.0	11.0	8.5	8.0	5.5	4.5	7.0	6.5	-- --	-- --
7	15.5	13.5	11.0	10.5	8.0	7.0	6.0	5.5	7.5	6.5	-- --	-- --
8	15.5	14.0	11.5	11.0	8.0	7.0	6.5	6.0	7.5	6.5	-- 8.0	-- --
9	15.5	14.5	13.0	11.5	8.0	7.5	7.0	6.5	7.0	6.0	-- --	-- --
10	15.0	14.0	13.0	13.0	7.5	6.5	7.0	6.5	7.0	6.5	-- --	-- --
11	15.0	13.5	13.0	12.5	7.0	7.0	7.0	7.0	7.5	6.5	-- --	-- --
12	15.0	14.0	12.5	11.0	7.0	6.5	7.5	7.0	8.0	7.0	-- --	-- --
13	15.0	14.0	12.5	11.5	7.0	6.5	7.5	6.5	8.5	8.0	-- --	-- --
14	14.0	13.0	11.5	10.5	7.5	7.0	6.5	6.0	8.0	7.0	-- --	-- --
15	13.0	11.5	11.0	10.0	7.0	7.0	6.0	5.5	8.5	7.5	-- --	-- --
16	11.5	10.5	10.0	9.5	7.0	6.5	6.5	5.5	9.0	8.0	-- --	-- --
17	10.5	10.0	10.0	9.5	6.5	6.5	7.5	6.5	9.0	8.5	-- --	-- --
18	11.0	10.0	9.5	9.0	6.5	6.5	7.5	7.5	8.5	7.5	-- --	-- --
19	11.5	11.0	9.5	9.0	6.5	6.5	8.0	7.5	8.5	8.0	-- --	-- --
20	11.5	10.5	11.0	9.5	6.5	6.0	8.0	8.0	8.0	7.5	-- --	-- --
21	11.0	10.0	10.5	10.0	7.0	6.0	8.5	8.0	8.5	7.5	-- --	-- --
22	11.0	10.0	10.5	10.0	7.0	7.0	8.5	8.0	8.0	7.0	-- --	-- --
23	-- --	--	11.0	10.5	7.0	7.0	8.0	7.0	7.0	6.5	-- --	-- --
24	-- --	--	11.0	10.5	7.5	7.0	7.5	6.5	7.0	7.0	-- --	-- --
25	-- --	--	10.5	9.5	7.5	7.0	7.0	6.5	7.5	6.5	-- --	-- --
26	-- --	--	10.5	10.0	7.0	6.5	6.5	5.5	8.0	7.5	-- --	-- --
27	-- --	--	10.5	10.0	7.0	6.5	6.0	5.5	8.5	7.5	-- --	-- --
28	13.5	13.0	10.0	9.0	6.5	6.0	6.0	5.5	8.0	7.5	-- --	-- --
29	13.0	12.0	9.5	9.0	7.0	6.5	5.5	5.0	-- --	-- --	-- 8.0	-- --
30	12.5	12.0	9.5	8.5	7.0	7.0	5.5	4.5	-- --	-- --	-- --	-- --
31	13.5	12.5	-- --	-- --	7.0	6.5	5.5	5.0	-- --	-- --	-- --	-- --
MONTH	15.5	10.0	14.0	8.5	9.0	6.0	8.5	4.5	9.0	4.0	-- --	-- --

11532500 SMITH RIVER NEAR CRESCENT CITY, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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	--	8.5	17.5	--	14.0	22.5	--	19.5	21.5	--	18.5	20.5	--	18.5
2	--	--	--	13.0	--	9.5	17.0	--	14.5	21.0	--	18.5	21.5	--	18.5	19.5	--	18.5
3	--	--	--	14.0	--	10.0	17.0	--	14.5	21.0	--	18.5	21.0	--	19.0	20.0	--	18.5
4	--	--	--	14.0	--	11.0	17.5	--	15.0	20.5	--	18.5	21.0	--	18.5	19.5	--	18.5
5	--	--	--	13.0	--	11.0	19.0	--	15.5	20.0	--	18.5	22.0	--	19.0	19.0	--	18.0
6	--	--	--	12.5	--	10.5	18.5	--	16.0	19.5	--	17.5	23.0	--	19.5	19.0	--	17.0
7	--	--	--	12.0	--	10.5	18.0	--	16.0	20.0	--	17.5	23.0	--	20.5	19.0	--	17.0
8	--	--	--	11.5	--	9.5	17.0	--	15.5	19.0	--	17.5	23.0	--	20.5	18.5	--	16.5
9	--	--	--	13.0	--	10.0	16.5	--	14.0	19.5	--	16.0	23.0	--	20.5	18.5	--	17.0
10	--	--	--	13.5	--	10.5	14.0	--	13.0	19.5	--	16.0	22.5	--	20.5	17.5	--	16.0
11	--	--	--	14.5	--	10.5	16.0	--	12.5	20.5	--	17.0	21.5	--	19.5	17.5	--	15.5
12	--	--	--	15.5	--	11.5	17.5	--	13.5	21.5	--	18.5	20.5	--	19.0	17.0	--	15.0
13	--	--	--	16.0	--	12.5	18.0	--	15.0	22.5	--	19.0	20.0	--	17.5	17.5	--	15.0
14	--	--	--	16.0	--	13.0	18.0	--	15.5	23.5	--	20.0	19.0	--	17.5	17.5	--	15.5
15	--	--	--	15.5	--	12.5	17.5	--	16.0	24.5	--	21.0	18.0	--	16.5	17.5	--	15.5
16	--	--	--	14.5	--	12.0	18.5	--	15.0	23.0	--	20.5	17.5	--	16.0	17.0	--	16.0
17	--	--	--	12.0	--	11.0	19.0	--	15.5	21.5	--	19.5	18.0	--	15.0	17.0	--	15.5
18	--	--	--	12.5	--	10.0	20.0	--	16.5	21.0	--	19.0	18.5	--	16.0	16.5	--	15.5
19	--	--	--	14.0	--	10.5	20.5	--	17.0	21.5	--	19.0	19.0	--	17.0	16.0	--	15.0
20	--	--	--	13.0	--	11.0	20.0	--	17.0	21.5	--	19.0	20.0	--	17.5	15.5	--	14.0
21	--	--	--	11.0	--	10.5	20.5	--	17.5	21.5	--	19.0	21.0	--	18.5	15.0	--	14.0
22	--	--	--	13.0	--	10.5	20.0	--	17.0	21.5	--	19.0	20.5	--	18.0	15.5	--	14.0
23	--	--	--	12.5	--	11.0	18.5	--	17.0	20.5	--	19.0	20.5	--	18.0	15.5	--	14.0
24	--	--	--	14.5	--	11.0	18.5	--	15.5	20.0	--	18.5	20.5	--	18.5	15.0	--	13.5
25	--	--	--	15.0	--	12.0	19.0	--	16.0	20.5	--	18.0	21.5	--	18.5	14.0	--	13.0
26	11.5	--	8.5	16.0	--	12.5	20.0	--	16.5	19.5	--	18.0	22.0	--	19.0	14.0	--	13.5
27	11.5	--	9.5	16.5	--	13.5	21.5	--	17.5	21.0	--	18.0	22.0	--	19.5	14.5	--	13.0
28	10.5	--	9.0	17.0	--	14.0	21.5	--	18.5	21.0	--	19.0	20.5	--	19.0	14.5	--	13.0
29	10.0	--	7.0	17.0	--	14.0	21.5	--	18.5	21.0	--	19.0	20.5	--	18.5	15.0	--	13.0
30	11.0	--	7.5	16.5	--	14.0	22.5	--	18.5	20.0	--	19.0	20.5	--	18.0	15.5	--	13.5
31	--	--	--	16.5	--	14.0	--	--	--	20.0	--	18.5	20.5	--	18.5	--	--	--
MONTH	--	--	--	17.0	--	8.5	22.5	--	12.5	24.5	--	16.0	23.0	--	15.0	20.5	--	13.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SALTON SEA BASIN

10256000 WHITEWATER RIVER AT WHITE WATER, CALIF. (LAT 33°56'48", LONG 116°38'24")1/

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)
DEC.												
13...	1230	9.8	47	13	14	4.5	191	0	157	33	5.0	.7
MAR.												
20...	0815	6.6	46	15	15	4.4	206	0	169	36	5.0	.7
JUNE												
26...	0715	8.6	49	15	14	4.4	201	0	165	37	6.0	.8
SEP.												
25...	0815	8.9	50	14	15	4.6	206	0	169	40	5.5	.7

DATE	DISSOLVED 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	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
DEC.												
13...	.59	208	.28	172	15	15	.5	371	7.8	13.0	5	20
MAR.												
20...	.50	208	.28	177	8	15	.5	390	7.9	18.5	4	20
JUNE												
26...	.56	196	.27	184	19	14	.4	378	8.0	18.0	1	10
SEP.												
25...	.63	251	.34	183	14	15	.5	398	7.9	18.0	1	20

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
DEC.						
13...	1230	9.8	425	8.0	13.0	9.6
MAR.						
20...	0815	6.6	400	7.7	18.5	8.3
JUNE						
26...	0715	8.6	435	7.9	18.0	8.4
SEP.						
25...	0815	8.9	430	7.9	18.0	9.0

1/ Records furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

MOJAVE RIVER BASIN

10261500 MOJAVE RIVER AT LOWER NARROWS, NEAR VICTORVILLE, CALIF. (LAT 34°34'23", LONG 117°19'11")1/

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)
OCT.										
20...	1000	45	35	7.9	39	3.3	156	0	128	45
JAN.										
07...	1200	30	45	10	50	6.1	196	0	161	54
APR.										
27...	1315	19	44	13	55	5.0	204	0	167	62
JULY										
26...	1300	13	43	12	51	7.1	200	0	164	55

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (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
OCT.									
20...	24	.5	.81	.18	239	.33	120	0	41
JAN.									
07...	32	.3	1.8	.34	322	.44	154	0	40
APR.									
27...	34	.5	2.1	.26	328	.45	164	0	41
JULY									
26...	33	.6	1.6	.46	315	.43	157	0	40

DATE	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	METHYLENE BLUE ACTIVE SUBSTANCE (MG/L)	DISSOLVED BORON (B) (UG/L)
OCT.							
20...	1.5	400	7.9	13.5	25	.10	90
JAN.							
07...	1.8	518	7.6	11.0	42	.30	140
APR.							
27...	1.9	550	7.7	28.0	3	.20	140
JULY							
26...	1.8	525	7.9	32.0	6	.20	160

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
20...	1000	45	400	7.7	13.5	8.3
JAN.						
07...	1200	30	560	7.7	11.0	8.5
APR.						
27...	1315	19	550	7.8	28.0	5.6
JULY						
26...	1300	13	525	7.7	32.0	5.0

1/ Records furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	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)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
WALKER LAKE BASIN							
10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CALIF. (LAT 38°19'40", LONG 119°12'50")1/							
APR. 27...	1300	251	24	4.6	17	115	0
SEP. 28...	1215	80	30	4.4	13	135	0
10296000 WEST WALKER RIVER BELOW LITTLE WALKER RIVER, NEAR COLEVILLE, CALIF. 1/ (LAT 38°22'47", LONG 119°26'57")							
APR. 27	1125	46	7.6	1.3	3.5	36	0
SEP. 28	1120	38	13	3.5	17	86	0
CARSON RIVER BASIN							
10305500 EAST FORK CARSON RIVER NEAR MARKLEEVILLE, CALIF. (LAT 38°41'20", LONG 119°45'44")1/							
APR. 27...	1430	392	9.4	2.6	6.8	48	0
SEP. 28...	0945	55	12	3.4	8.2	69	0
10310000 WEST FORK CARSON RIVER AT WOODFORDS, CALIF. (LAT 38°46'10", LONG 119°49'55")1/							
APR. 27...	1500	165	5.7	1.3	2.7	28	0
SEP. 28...	0845	38	9.4	1.3	3.5	42	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SODIUM AD-SORP-TION RATIO	TUR-BID-ITY (JTU)
10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CALIF.--Continued						
APR. 27	94	1.7	80	0	.8	4
SEP. 28	111	1.6	93	0	.6	44
10296000 WEST WALKER RIVER BELOW LITTLE WALKER RIVER, NEAR COLEVILLE, CALIF.--Continued						
APR. 27	30	.0	25	0	.3	0
SEP. 28...	69	5.4	47	0	1.1	1
10305500 EAST FORK CARSON RIVER NEAR MARKLEEVILLE, CALIF.--Continued						
APR. 27...	39	1.0	34	0	.5	0
SEP. 28...	57	3.7	44	0	.5	1
10310000 WEST FORK CARSON RIVER AT WOODFORDS, CALIF.--Continued						
APR. 27...	23	.0	20	0	.3	0
SEP. 28...	34	1.7	29	0	.3	1

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
WALKER LAKE BASIN--Continued						
10293000 EAST WALKER RIVER NEAR BRIDGEPORT, CALIF.--Continued						
APR.						
27...	1300	251	200	8.0	9.0	9.2
SEP.						
28...	1215	80	225	7.9	13.5	7.9
10296000 WEST WALKER RIVER BELOW LITTLE WALKER RIVER, NEAR COLEVILLE, CALIF.--Continued						
APR.						
27...	1125	46	64	7.4	8.0	9.8
SEP.						
28...	1120	38	160	8.0	11.5	9.8
10305500 EAST FORK CARSON RIVER NEAR MARKLEEVILLE, CALIF.--Continued						
APR.						
27...	1430	392	91	7.6	11.5	8.8
SEP.						
28...	0945	55	125	7.8	8.5	10.1
10310000 WEST FORK CARSON RIVER AT WOODFORDS, CALIF.--Continued						
APR.						
27...	1500	165	50	7.3	9.5	9.2
SEP.						
28...	0845	38	75	7.3	7.0	10.1

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SANTA MARGARITA RIVER BASIN

11044500 SANTA MARGARITA RIVER NEAR FALLBROOK, CALIF. (LAT 33°23'54", LONG 117°15'44")1/

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)
DEC. 15...	1500	4.1	99	36	142	4.2	317	0	260	186	182	.4
MAR. 22...	1400	4.8	107	39	136	3.2	341	0	280	188	177	.4
JUNE 28...	1230	.68	106	39	144	3.3	336	10	292	171	199	.5

DATE	DISSOLVED 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	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
DEC. 15...	.05	841	1.14	395	140	44	3.1	1310	8.1	8.5	1	200
MAR. 22...	.00	828	1.13	427	150	41	2.9	1330	8.1	19.0	4	180
JUNE 28...	.00	910	1.24	425	130	42	3.0	1360	--	26.0	1	220

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
DEC. 15...	1500	4.1	1300	8.1	8.5	10.8
MAR. 22...	1400	4.8	1425	8.1	19.0	9.0
JUNE 28...	1230	.68	1520	8.0	26.0	8.5

LOS ANGELES RIVER BASIN

11097500 LOS ANGELES RIVER AT LOS ANGELES, CALIF. (LAT 34°04'52", LONG 118°13'36") 1/

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)	HARDNESS (CA,MG) (MG/L)	TEMPERATURE (DEG C)	TURBIDITY (JTU)
JUNE 03...	0600	28	305	140	838	1.14	120	342	21.0	3
SEP. 28...	0645	16	228	131	778	1.06	75.6	339	19.5	3

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
JUNE 03...	0600	28	1390	7.4	21.0	3.3
SEP. 28...	0645	16	1290	7.4	19.5	3.9

1/ Records furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SANTA CLARA RIVER BASIN

11113300 SANTA CLARA RIVER NEAR SANTA PAULA, CALIF. (LAT 34°21'14", LONG 119°01'38")1/

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.												
19...	1230	100	164	67	124	5.1	258	0	212	624	56	1.0
JAN.												
11...	1230	--	145	47	90	3.6	275	0	226	435	45	.6
APR.												
25...	1130	50	192	76	147	6.3	284	0	233	738	67	.8
JULY												
25...	0930	25	202	77	140	5.8	299	0	245	733	66	.9

DATE	DISSOLVED 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	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.												
19...	.02	1270	1.73	685	470	28	2.1	1570	8.0	17.0	80	830
JAN.												
11...	2.5	981	1.33	555	330	26	1.7	1250	8.1	15.0	12	500
APR.												
25...	4.5	1470	2.00	800	570	28	2.3	1830	8.0	23.0	2	820
JULY												
25...	4.5	1540	2.09	821	580	27	2.1	1820	8.0	20.0	3	870

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
19...	1230	100	1570	8.1	17.0	10.9
JAN.						
11...	1230	--	1390	8.1	15.0	9.7
APR.						
25...	1130	50	1920	8.0	23.0	11.4
JULY						
25...	0930	25	1970	7.9	20.0	10.7

1/ Records furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

VENTURA RIVER BASIN

11115500 MATILIJA CREEK AT MATILIJA HOT SPRINGS, CALIF. (LAT 34°28'58", LONG 119°18'03")1/

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.												
18...	1015	2.4	92	32	58	2.5	192	0	157	265	38	.8
JAN.												
11...	1100	24	108	29	41	2.1	226	0	185	254	21	.5
APR.												
24...	0900	4.2	104	29	54	2.3	209	0	171	267	32	.8
JULY												
24...	0800	1.9	87	32	58	2.5	171	0	140	262	42	.9

DATE	DISSOLVED 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	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.												
18...	3.4	585	.80	361	200	26	1.3	859	8.1	14.5	0	980
JAN.												
11...	.36	601	.82	389	200	19	.9	825	7.8	9.0	1	500
APR.												
24...	.00	602	.82	379	210	24	1.2	869	8.0	16.0	1	850
JULY												
24...	.11	586	.80	349	210	26	1.4	857	7.9	21.0	2	1160

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.						
18...	1015	2.4	--	7.9	14.5	6.7
JAN.						
11...	1100	24	930	8.1	9.0	10.8
APR.						
24...	0900	4.2	970	8.0	16.0	9.1
JULY						
24...	0800	1.9	930	7.8	21.0	7.6

1/ Records furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SALINAS RIVER BASIN

11143500 SALINAS RIVER NEAR POZO, CALIF. (LAT 35°17'55", LONG 120°24'10")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT., 1971											
27...	1400	.98	.40	--	.00	.0	.44	.13	.17	.28	.41
27...	1415	--	--	--	--	--	--	--	--	--	--
DEC.											
29...	1330	5.3	.94	--	.00	.0	.94	.04	.05	.29	.33
MAR., 1972											
07...	1100	2.1	.61	2.7	.00	.0	.61	.04	.05	.18	.22
APR.											
13...	0800	1.9	.33	1.5	.00	.0	.33	.07	.09	.07	.14
JUNE											
29...	1400	.50	.03	.10	.00	.0	.03	.08	.10	.23	.31

11145000 SALINAS RIVER ABOVE PILITAS CREEK, NEAR SANTA MARGARITA, CALIF. (LAT 35°20'56", LONG 120°30'42")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT., 1971											
27...	1520	.90	.00	--	.00	.0	.03	.09	.12	.25	.34
MAR., 1972											
07...	1145	.11	.00	.00	.00	.0	.00	.06	.08	.28	.34
JUNE											
29...	0915	322	.08	.40	.00	.0	.08	.12	.15	--	--
29...	1100	317	.11	.50	.01	.0	.12	.11	.14	.54	.65
30...	0730	331	.09	.40	.03	.1	.12	.10	.13	.22	.32
30...	0830	332	--	--	--	--	--	--	--	--	--

11147500 SALINAS RIVER AT PASO ROBLES, CALIF. (LAT 35°37'43", LONG 120°41'00")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
DEC., 1971											
29...	1000	23	1.2	--	.00	.0	1.2	.12	.15	.70	.82
MAR., 1972											
07...	1215	.73	--	--	--	--	--	--	--	--	--
07...	1315	.73	.02	.10	.00	.0	.02	.09	.12	.50	.59

11143500 SALINAS RIVER NEAR POZO, CALIF.--Continued

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)
OCT., 1971											
27...	.06	.02	675	8.1	17.0	1.0	--	--	--	--	--
27...	--	--	--	--	--	--	.00	.0	.00	.00	.00
DEC.											
29...	.05	.03	--	--	13.0	2.0	.00	.0	.00	.00	.00
MAR., 1972											
07...	.02	.00	--	--	19.0	.5	.00	.0	.00	.00	.01
APR.											
13...	.01	.01	630	--	11.5	.0	--	--	--	--	--
JUNE											
29...	.04	.02	612	9.1	32.0	1.0	--	--	--	--	--

11145000 SALINAS RIVER ABOVE PILITAS CREEK, NEAR SANTA MARGARITA, CALIF.--Continued

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)
OCT., 1971											
27...	.05	.01	578	7.7	14.0	5.0	.00	.0	.00	.00	.00
MAR., 1972											
07...	.03	.02	--	--	18.0	1.5	.00	.0	.00	.00	.00
JUNE											
29...	.44	.09	600	7.8	21.5	47	--	--	--	--	--
29...	.17	.04	500	8.2	16.0	12	.00	.0	.00	.00	.00
30...	.07	.03	500	7.9	13.5	3.0	--	--	--	--	--
30...	--	--	--	--	13.5	--	.00	.0	.00	.00	.00

11147500 SALINAS RIVER AT PASO ROBLES, CALIF.--Continued

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)
DEC., 1971											
29...	.28	.11	--	--	5.0	6.0	.00	.0	.00	.00	.00
MAR., 1972											
07...	--	--	--	--	25.0	--	.00	.0	.00	.00	.00
07...	.13	.09	--	--	25.0	12	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	2,4-D (UG/L)
SALINAS RIVER BASIN--Continued										
11143500 SALINAS RIVER NEAR POZO, CALIF.--Continued										
OCT., 1971										
27...	--	--	--	--	--	--	--	--	--	--
27...	--	.00	.00	.00	.00	.00	--	--	--	.00
DEC.										
29...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR., 1972										
07...	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00
APR.										
13...	--	--	--	--	--	--	--	--	--	--
JUNE										
29...	--	--	--	--	--	--	--	--	--	--
11145000 SALINAS RIVER ABOVE PILITAS CREEK, NEAR SANTA MARGARITA, CALIF.--Continued										
OCT., 1971										
27...	--	.00	.00	.00	.00	.00	--	--	--	.00
MAR., 1972										
07...	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
JUNE										
29...	--	--	--	--	--	--	--	--	--	--
29...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30...	--	--	--	--	--	--	--	--	--	--
30...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11147500 SALINAS RIVER AT PASO ROBLES, CALIF.--Continued										
DEC., 1971										
29...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR., 1972										
07...	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
07...	--	--	--	--	--	--	--	--	--	--

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
11143500 SALINAS RIVER NEAR POZO, CALIF.--Continued										
OCT., 1971										
27...	--	--	0	0	0	0	1	0	.1	0
27...	.00	.00	--	--	--	--	--	--	--	--
DEC.										
29...	.00	.00	1	0	0	0	0	2	.0	10
MAR., 1972										
07...	.00	.00	3	0	0	1	3	2	.8	20
APR.										
13...	--	--	0	0	0	0	1	0	.4	20
JUNE										
29...	--	--	0	2	0	0	2	7	--	0
11145000 SALINAS RIVER ABOVE PILITAS CREEK, NEAR SANTA MARGARITA, CALIF.--Continued										
OCT., 1971										
27...	.00	.00	0	1	0	0	2	2	.2	10
MAR., 1972										
07...	.00	.01	1	0	0	2	1	0	1.1	20
JUNE										
29...	--	--	8	1	0	0	2	1	.1	10
29...	.00	.00	6	2	0	0	3	1	.4	10
30...	--	--	5	2	0	0	5	3	11	0
30...	.00	.00	--	--	--	--	--	--	--	--
11147500 SALINAS RIVER AT PASO ROBLES, CALIF.--Continued										
DEC., 1971										
29...	.00	.00	10	0	0	0	7	2	.1	10
MAR., 1972										
07...	.00	.00	--	--	--	--	--	--	--	--
07...	--	--	0	0	0	2	3	1	.8	20

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SALINAS RIVER BASIN--Continued

11150500 SALINAS RIVER NEAR BRADLEY, CALIF. (LAT 35°55'49", LONG 120°52'04")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT., 1971											
28...	0900	192	.18	--	.00	.0	.18	.21	.27	.20	.41
NOV.											
29...	1030	155	.49	--	.00	.0	.49	.20	.26	.19	.39
DEC.											
28...	1530	58	.55	--	.00	.0	.55	.06	.08	.67	.73
MAR., 1972											
07...	1445	78	.14	.60	.00	.0	.14	.06	.08	.38	.44
APR.											
12...	1600	444	.18	.80	.00	.0	.18	.10	.13	.26	.36
JUNE											
28...	1530	480	.09	.40	.01	.0	.10	.05	.06	.38	.43

11151700 SALINAS RIVER AT SOLEDAD, CALIF. (LAT 36°24'40", LONG 121°19'06")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)
OCT., 1971											
28...	1045	86	.10	--	.00	.0	.11	.07	.09	.22	.29
DEC.											
28...	1030	125	.52	--	.00	.0	.52	.05	.06	.72	.77
MAR., 1972											
08...	0900	7.2	6.2	27	.04	.1	6.2	.11	.14	.21	.32
APR.											
12...	1300	218	.06	.30	.00	.0	.06	.09	.12	.31	.40
JUNE											
28...	1245	138	.15	.70	.00	.0	.15	.12	.15	.47	.59

11150500 SALINAS RIVER NEAR BRADLEY, CALIF.--Continued

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)
OCT., 1971											
28...	.09	.03	378	7.9	10.5	3.0	.00	.0	.00	.00	.00
NOV.											
29...	.34	.26	--	--	14.0	7.5	.00	.0	.00	.00	.00
DEC.											
28...	.57	.10	--	--	12.0	5.5	.00	.0	.00	.00	.00
MAR., 1972											
07...	.14	.06	--	--	25.0	3.5	.00	.0	.00	.00	.00
APR.											
12...	.17	.09	371	8.2	16.5	.5	--	--	--	--	--
JUNE											
28...	.22	.15	350	8.2	23.5	3.0	--	--	--	--	--

11151700 SALINAS RIVER AT SOLEDAD, CALIF.--Continued

DATE	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)
OCT., 1971											
28...	.12	.05	504	8.1	7.5	3.0	.00	.0	.00	.00	.00
DEC.											
28...	.36	.10	--	--	6.5	3.0	.00	.0	.00	.01	.02
MAR., 1972											
08...	.05	.05	--	--	13.5	9.5	.00	.0	.00	.00	.00
APR.											
12...	.25	.08	457	8.5	16.5	1.0	--	--	--	--	--
JUNE											
28...	.26	.17	400	7.8	24.0	3.0	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	2,4-D (UG/L)
SALINAS RIVER BASIN--Continued										
11150500 SALINAS RIVER NEAR BRADLEY, CALIF.--Continued										
OCT., 1971										
28...	--	.00	.00	.00	.00	.00	--	--	--	.00
NOV.										
29...	--	.00	.00	.00	.00	.00	--	--	--	.00
DEC.										
28...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR., 1972										
07...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
APR.										
12...	--	--	--	--	--	--	--	--	--	--
JUNE										
28...	--	--	--	--	--	--	--	--	--	--
11151700 SALINAS RIVER AT SOLEDAD, CALIF.--Continued										
OCT., 1971										
28...	--	.00	.00	.00	.00	.00	--	--	--	.00
DEC.										
28...	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00
MAR., 1972										
08...	.01	.00	.00	.00	.00	.00	.00	.00	.00	--
APR.										
12...	--	--	--	--	--	--	--	--	--	--
JUNE										
28...	--	--	--	--	--	--	--	--	--	--

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
11150500 SALINAS RIVER NEAR BRADLEY, CALIF.--Continued										
OCT., 1971										
28...	.00	.00	0	0	0	0	1	0	.1	10
NOV.										
29...	.00	.00	1	0	0	1	2	2	.0	20
DEC.										
28...	.00	.02	3	0	0	0	5	2	.3	10
MAR., 1972										
07...	.00	.00	0	1	0	1	3	3	.8	20
APR.										
12...	--	--	0	0	0	0	2	0	.3	8
JUNE										
28...	--	--	5	2	0	0	2	3	--	0
11151700 SALINAS RIVER AT SOLEDAD, CALIF.--Continued										
OCT., 1971										
28...	.00	.00	2	0	0	0	1	3	.1	10
DEC.										
28...	.00	.00	1	0	0	0	3	1	.3	10
MAR., 1972										
08...	--	--	9	1	0	1	2	4	1.0	20
APR.										
12...	--	--	0	0	0	0	1	0	.3	8
JUNE										
28...	--	--	10	2	0	0	3	3	--	10

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

BUENA VISTA LAKE BASIN

11186000 KERN RIVER NEAR KERNVILLE, CALIF. (LAT 35°56'43", LONG 118°28'36")1/

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT.. 1971										
04...	1420	53	60	0	49	.02	.10	.01	.01	142

DATE	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BARIUM (BA) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)
OCT.. 1971									
04...	8.2	13.0	8.5	0	0	0	0	.0	0

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
OCT.. 1971						
04...	1420	53	165	8.0	13.0	8.5

1/ Records furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

TULARE LAKE BASIN

11208602 FRANKLIN CREEK NEAR HAMMOND, CALIF. (LAT 36°25'50", LONG 118°35'00")

DATE	TIME	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	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)	TEMPER-ATURE (DEG C)
OCT.									
27...	0945	.17	.15	.12	.27	.44	.08	.06	.0
JAN.									
04...	1600	.15	.15	.15	.30	.45	.05	.00	.0
FEB.									
28...	1600	.17	.11	.19	.30	.47	.37	.38	4.0
MAY									
01...	1300	.16	.04	.06	.10	.26	.02	.01	6.5
JUNE									
20...	0915	.06	.08	.08	.16	.22	.06	.01	8.5
JULY									
26...	0830	.10	.03	.01	.04	.14	.02	.00	6.0
SEP.									
05...	1300	.04	.13	.03	.16	.20	.04	.01	10.0

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	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)	PER-CENT SATUR-ATION
OCT.												
27...	0945	--	32	0	26	38	12	110	7.2	.0	10.6	100
JAN.												
04...	1600	--	44	0	36	36	0	75	7.5	.0	10.4	98
FEB.												
28...	1600	--	38	0	31	42	11	140	7.3	4.0	9.5	100
MAY												
01...	1300	--	30	0	25	32	7	85	7.1	6.5	9.4	104
JUNE												
20...	0915	E10	18	0	15	24	9	61	6.5	8.5	9.2	108
JULY												
26...	0830	--	24	0	20	24	4	55	6.7	6.0	9.5	104
SEP.												
05...	1300	--	24	0	20	26	6	80	7.0	10.0	8.3	101

E Estimated.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

TULARE LAKE BASIN--Continued

11208603 WHITE CHIEF CREEK NEAR HAMMOND, CALIF. (LAT 36°26'00", LONG 118°35'20")

DATE	TIME	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	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)	TEMPER-ATURE (DEG C)
OCT.									
27...	1030	.05	.17	.19	.36	.41	.08	.07	.0
JAN.									
04...	1430	.08	.09	.19	.28	.36	.59	.38	.5
FEB.									
28...	1500	.10	.04	.20	.24	.34	.02	.02	2.0
MAY									
01...	1340	.10	.04	.09	.13	.23	.39	.34	6.0
JUNE									
20...	1015	.02	.06	.06	.12	.14	.06	.00	10.5
JULY									
26...	0730	.03	.01	.08	.09	.12	.01	.00	7.5
SEP.									
06...	1200	.01	.13	.14	.27	.28	.03	.01	12.0

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	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)	PER-CENT SATUR-ATION
OCT.												
27...	1030	--	40	0	33	42	9	150	7.4	.0	10.3	97
JAN.												
04...	1430	--	50	0	41	44	3	80	7.3	.5	9.6	91
FEB.												
28...	1500	--	114	0	94	112	18	260	7.4	2.0	10.2	100
MAY												
01...	1340	--	30	0	25	32	7	90	7.2	6.0	9.7	105
JUNE												
20...	1015	E2.0	32	0	26	36	10	118	6.5	10.5	8.5	104
JULY												
26...	0730	E1.0	54	0	44	78	34	160	6.8	7.5	9.3	106
SEP.												
06...	1200	--	30	0	25	42	17	100	7.5	12.0	8.3	104

E Estimated.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

TULARE LAKE BASIN--Continued

11208605 EAST FORK KAWEAH RIVER BELOW EAGLE CREEK, NEAR HAMMOND, CALIF. (LAT 36°26'44", LONG 118°35'38")

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)	ALKA-LINITY AS CACO3 (MG/L)
OCT.										
27...	1240	7.8	100	32	1.0	1.4	.9	93	0	76
JAN.										
05...	0945	--	--	--	--	--	--	--	--	--
FEB.										
29...	1400	--	--	--	--	--	--	--	--	--
MAY										
01...	1445	--	--	--	--	--	--	--	--	--
JUNE										
20...	1130	5.0	20	16	.5	1.0	.5	47	0	39
JULY										
25...	1530	--	--	--	--	--	--	--	--	--
SEP.										
05...	1400	--	--	--	--	--	--	--	--	--

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 AMMONIA NITRO-GEN (N) (MG/L)	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)
OCT.										
27...	11	.6	.1	.13	.13	.12	.25	.38	.04	.03
JAN.										
05...	--	--	--	.13	.04	.13	.17	.30	.01	.01
FEB.										
29...	--	--	--	.09	.30	--	--	--	.00	.00
MAY										
01...	--	--	--	.12	.02	.15	.17	.29	.02	.00
JUNE										
20...	6.8	.2	.1	.06	.03	.11	.14	.20	.01	.00
JULY										
25...	--	--	--	.04	.08	.08	.16	.20	.02	.00
SEP.										
05...	--	--	--	.00	.15	.02	.17	.17	.03	.01

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)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
OCT.										
27...	101	.14	84	8	3	.1	171	7.3	7.0	10
JAN.										
05...	--	--	--	--	--	--	--	--	1.5	--
FEB.										
29...	--	--	--	--	--	--	--	--	5.0	--
MAY										
01...	--	--	--	--	--	--	--	--	8.0	--
JUNE										
20...	54	.07	42	3	5	.1	89	7.8	11.0	10
JULY										
25...	--	--	--	--	--	--	--	--	13.0	--
SEP.										
05...	--	--	--	--	--	--	--	--	10.0	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	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)	PER-CENT SATUR-ATION
OCT.												
27...	1240	--	78	0	64	78	14	210	7.1	7.0	9.7	108
JAN.												
05...	0945	--	72	0	59	74	15	180	7.5	1.5	10.9	105
FEB.												
29...	1400	--	74	0	61	72	11	210	7.2	5.0	9.8	103
MAY												
01...	1445	--	50	0	41	54	13	130	7.0	8.0	9.0	102
JUNE												
20...	1130	E12	40	0	33	46	13	90	6.5	11.0	8.7	106
JULY												
25...	1530	--	64	0	52	68	15	140	6.6	13.0	8.0	101
SEP.												
05...	1400	--	74	0	61	74	13	165	7.3	10.0	8.3	99

E Estimated.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

TULARE LAKE BASIN--Continued

11208606 SPRING CREEK NEAR HAMMOND, CALIF. (LAT 36°26'40", LONG 118°35'50")

DATE	TIME	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	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)	TEMPER-ATURE (DEG C)
OCT.									
27...	1315	.07	.08	.18	.26	.33	.08	.07	6.0
JAN.									
05...	1030	.10	.04	.20	.24	.34	.14	.14	2.0
FEB.									
29...	1500	.02	.05	.02	.07	.09	.02	.02	4.5
MAY									
01...	1530	.13	.04	.09	.13	.26	.03	.01	6.5
JUNE									
20...	1240	.05	.07	.13	.20	.25	.06	.01	8.5
JULY									
25...	1430	.04	.03	.15	.18	.22	.03	.01	10.0
SEP.									
05...	1500	.01	.22	.03	.25	.26	.05	.01	9.5

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	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)	PER-CENT SATUR-ATION
OCT.												
27...	1315	--	104	0	85	104	19	200	7.1	6.0	9.5	103
JAN.												
05...	1030	--	134	0	110	132	22	280	7.4	2.0	9.3	91
FEB.												
29...	1500	--	134	0	110	124	14	220	7.2	4.5	10.3	107
MAY												
01...	1530	--	64	0	52	68	15	150	7.2	6.5	9.4	103
JUNE												
20...	1240	E5.0	51	0	42	--	--	100	6.4	8.5	9.0	105
JULY												
25...	1430	--	76	0	62	70	8	200	6.6	10.0	8.9	107
SEP.												
05...	1500	--	102	0	84	96	12	200	7.2	9.5	8.6	102

E Estimated.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

TULARE LAKE BASIN--Continued

11208615 EAST FORK KAWEAH RIVER BELOW MONARCH CREEK, NEAR HAMMOND, CALIF. (LAT 36°27'09", LONG 118°35'56")

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)	ALKA-LINITY AS CACO3 (MG/L)
OCT.										
26...	1720	9.6	140	32	1.5	2.4	1.0	100	0	82
JAN.										
04...	1730	--	--	--	--	--	--	--	--	--
FEB.										
29...	1715	--	--	--	--	--	--	--	--	--
MAY										
01...	1700	--	--	--	--	--	--	--	--	--
JUNE										
20...	1330	--	--	--	--	--	--	--	--	--
JULY										
25...	1330	--	--	--	--	--	--	--	--	--
SEP.										
06...	0800	--	--	--	--	--	--	--	--	--

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 AMMONIA NITRO-GEN (N) (MG/L)	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)
OCT.										
26...	8.8	1.0	.1	.04	.13	.19	.32	.36	.04	.04
JAN.										
04...	--	--	--	.07	.03	.18	.21	.28	.06	.03
FEB.										
29...	--	--	--	.17	.09	.03	.12	.29	.11	.09
MAY										
01...	--	--	--	.11	.04	.05	.09	.20	.04	.00
JUNE										
20...	--	--	--	.04	.15	.03	.18	.22	.04	.00
JULY										
25...	--	--	--	.06	.01	.30	.31	.37	.02	.00
SEP.										
06...	--	--	--	.06	.15	.20	.35	.41	.03	.01

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)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
OCT.										
26...	106	.14	86	4	6	.1	191	6.6	6.0	30
JAN.										
04...	--	--	--	--	--	--	--	--	.0	--
FEB.										
29...	--	--	--	--	--	--	--	--	4.5	--
MAY										
01...	--	--	--	--	--	--	--	--	8.0	--
JUNE										
20...	--	--	--	--	--	--	--	--	12.0	--
JULY										
25...	--	--	--	--	--	--	--	--	16.0	--
SEP.										
06...	--	--	--	--	--	--	--	--	9.0	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	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)	PER-CENT SATUR-ATION
OCT.												
26...	1720	--	84	0	69	86	17	170	7.2	6.0	9.1	98
JAN.												
04...	1730	--	82	0	67	80	13	190	7.3	.0	10.6	96
FEB.												
29...	1715	--	74	0	61	76	15	190	7.4	4.5	9.8	101
MAY												
01...	1700	--	48	0	39	58	19	120	7.1	8.0	9.2	103
JUNE												
20...	1330	E15	43	0	35	47	12	115	6.4	12.0	8.4	104
JULY												
25...	1330	--	68	0	56	68	12	150	6.5	16.0	7.8	105
SEP.												
06...	0800	--	60	0	49	62	13	130	6.8	9.0	9.1	105

E Estimated.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

TULARE LAKE BASIN--Continued

11208619 MOSQUITO CREEK NEAR HAMMOND, CALIF. (LAT 36°27'00", LONG 118°37'00")

DATE	TIME	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	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)	TEMPER-ATURE (DEG C)
OCT.									
27...	1500	.25	.10	.18	.28	.53	.08	.07	1.5
JAN.									
04...	1700	.11	.05	.20	.25	.36	.04	--	.0
MAR.									
01...	0800	.10	.06	.19	.25	.35	.02	.02	.5
MAY									
01...	1800	.04	.05	.10	.15	.19	.02	.00	6.0
JUNE									
21...	0615	.04	.02	.12	.14	.18	.08	.00	10.5
JULY									
25...	1630	.20	.01	.31	.32	.52	.01	.00	12.5
SEP.									
06...	1030	.49	.10	.07	.17	.66	.03	.01	10.0

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	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)	PER-CENT SATUR-ATION
OCT.												
27...	1500	--	8	0	7	9	2	31	7.4	1.5	10.7	102
JAN.												
04...	1700	--	12	0	10	10	0	25	7.8	.0	10.6	96
MAR.												
01...	0800	--	10	0	8	10	2	46	7.8	.5	10.7	98
MAY												
01...	1800	--	6	0	5	6	1	14	6.9	6.0	9.7	103
JUNE												
21...	0615	E2.0	5	0	4	--	--	18	6.1	10.5	8.7	104
JULY												
25...	1630	--	9	0	7	6	0	120	6.5	12.5	7.8	98
SEP.												
06...	1030	E2.0	10	0	8	9	1	30	7.6	10.0	8.5	100

11222700 KINGS RIVER AT PEOPLES WEIR, NEAR KINGSBURG, CALIF. (LAT 36°29'06", LONG 119°32'22")1/

DATE	TIME	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)
JUNE							
27...	1800	3.3	1.3	2.0	17	0	14

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	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)
JUNE							
27...	.0	.00	14	0	.2	38	7.1

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
JUNE			
27...	1800	33	7.4

E Estimated.

1/ Records furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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)
GOOSE LAKE BASIN										
11337705 GOOSE LAKE AT WILLOW RANCH, CALIF. (LAT 41°54'14", LONG 120°21'55")										
OCT. 19...	1130	665400	53	30	11	4.1	410	32	694	71
MAY 22...	1600	1109000	41	120	9.6	3.8	190	19	426	16
11337715 GOOSE LAKE NEAR EVERLY RANCH, NEAR WILLOW RANCH, CALIF. (LAT 41°52'17", LONG 120°29'49")										
OCT. 18...	1330	665400	52	20	9.9	3.6	430	33	661	95
MAY 23...	1100	1109000	44	30	10	4.0	290	26	563	45
11337720 GOOSE LAKE AT WEST SHORE LOG LANDING, NEAR WILLOW RANCH, CALIF. (LAT 41°57'51", LONG 120°29'37")										
OCT. 19...	0830	665400	54	20	11	4.0	430	33	696	81
MAY 23...	0840	1109000	44	30	9.8	3.9	280	25	564	43

DATE	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)	ORGANIC NITROGEN (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)
11337705 GOOSE LAKE AT WILLOW RANCH, CALIF.--Continued										
OCT. 19...	687	74	140	.9	.49	.96	1.3	1.8	1.8	1240
MAY 22...	376	40	68	.5	.25	--	--	--	--	--
11337715 GOOSE LAKE NEAR EVERLY RANCH, NEAR WILLOW RANCH, CALIF.--Continued										
OCT. 18...	700	80	180	.8	.51	.94	1.2	1.7	1.8	1310
MAY 23...	537	56	100	.7	.12	--	--	--	--	--
11337720 GOOSE LAKE AT WEST SHORE LOG LANDING, NEAR WILLOW RANCH, CALIF.--Continued										
OCT. 19...	706	79	150	.8	.66	.86	1.2	1.9	1.8	1350
MAY 23...	534	60	100	.6	.26	--	--	--	--	--

DATE	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)	DISSOLVED BORON (B) (UG/L)
11337705 GOOSE LAKE AT WILLOW RANCH, CALIF.--Continued										
OCT. 19...	1150	1.69	44	0	91	27	1840	8.8	3.5	3200
MAY 22...	600	.82	40	0	87	13	935	8.8	16.0	1600
11337715 GOOSE LAKE NEAR EVERLY RANCH, NEAR WILLOW RANCH, CALIF.--Continued										
OCT. 18...	1220	1.78	40	0	92	30	1860	8.8	4.5	5500
MAY 23...	855	1.16	41	0	89	20	1360	8.8	13.0	2400
11337720 GOOSE LAKE AT WEST SHORE LOG LANDING, NEAR WILLOW RANCH, CALIF.--Continued										
OCT. 19...	1200	1.84	44	0	92	28	1890	8.8	3.5	4900
MAY 23...	847	1.15	41	0	89	19	1350	8.8	11.5	2300

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN

11341300 SACRAMENTO RIVER ABOVE LAKE SISKIYOU, NEAR MT SHASTA, CALIF. (LAT 41°17'13", LONG 122°22'31")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED 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)	TEMPERATURE (DEG C)
OCT.								
19...	1420	10	.03	.03	.17	.20	.04	7.5
NOV.								
30...	1255	18	.05	.05	.19	.24	.02	4.0
FEB.								
09...	1445	41	--	.06	.22	.28	.04	3.5
APR.								
12...	0830	168	.06	.06	.13	.19	.00	3.0
MAY								
09...	1300	218	.01	.01	.02	.03	.02	8.0
JUNE								
14...	1430	80	.02	.02	.06	.08	.06	16.5
JULY								
11...	1015	17	.07	.07	.06	.13	.03	17.0
AUG.								
10...	1340	9.8	.03	.03	.02	.05	.02	22.0
SEP.								
13...	0840	8.1	.03	.03	.09	.12	.01	12.0

11341305 DEER CREEK NEAR MT SHASTA, CALIF. (LAT 41°18'01", LONG 122°22'53")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED 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)	TEMPERATURE (DEG C)
OCT.								
19...	0815	1.8	.03	.03	.15	.18	.04	5.5
NOV.								
30...	0830	2.8	.01	.01	.37	.38	.02	2.0
APR.								
12...	1415	18	.00	.00	.08	.08	.01	4.5
MAY								
09...	0900	9.7	.01	.01	.04	.05	.03	5.0
JUNE								
14...	0750	3.0	.00	.00	.02	.02	.03	11.5
JULY								
11...	0950	E1.5	.01	.01	.07	.08	.03	17.0
AUG.								
10...	0830	.73	.01	.01	.01	.02	.02	16.0
SEP.								
12...	0930	.62	.01	.01	.10	.11	.02	8.0

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

11341300 SACRAMENTO RIVER ABOVE LAKE SISKIYOU, NEAR MT SHASTA, CALIF.--Continued

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.								
19...	1420	184	8.2	7.5	10.3	98	93	0
NOV.								
30...	1255	162	8.1	4.0	11.8	102	12	0
FEB.								
09...	1445	150	7.8	3.5	11.8	100	0	0
APR.								
12...	0830	95	7.9	3.0	11.8	100	2	0
MAY								
09...	1300	82	7.9	8.0	10.5	100	--	1
JUNE								
14...	1430	106	8.0	16.5	8.6	100	104	0
JULY								
11...	1015	161	8.2	17.0	8.5	99	--	0
AUG.								
10...	1340	195	8.1	22.0	7.5	96	--	2
SEP.								
13...	0840	197	8.2	12.0	9.6	100	--	0

11341305 DEER CREEK NEAR MT SHASTA, CALIF.--Continued

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.								
19...	0815	187	8.2	5.5	10.8	98	320	1
NOV.								
30...	0830	183	8.1	2.0	11.7	96	16	0
APR.								
12...	1415	123	7.9	4.5	11.2	92	12	0
MAY								
09...	0900	129	8.1	5.0	11.2	100	--	0
JUNE								
14...	0750	171	8.1	11.5	9.5	98	800	0
AUG.								
10...	0830	195	7.9	16.0	8.2	93	--	12
SEP.								
12...	0930	200	8.1	8.0	10.4	99	--	2

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11341310 SCOTT CAMP CREEK AT DIVERSION DAM, NEAR MT SHASTA, CALIF. (LAT 41°16'22", LONG 122°20'47")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED 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)	TEMPERATURE (DEG C)
OCT.								
19...	1505	2.3	.02	.02	.13	.15	--	6.0
NOV.								
30...	1430	3.4	.06	.06	.17	.23	.02	3.0
FEB.								
09...	1545	4.6	--	.03	.18	.21	.03	2.0
APR.								
12...	0915	24	.00	.00	.06	.06	.00	2.0
MAY								
09...	1340	24	.01	.01	.07	.08	.03	6.5
JUNE								
14...	1515	9.8	.00	.00	.05	.05	.03	13.0
JULY								
11...	1115	2.2	.00	.00	.12	.12	.03	13.0
AUG.								
10...	1410	1.1	.00	.00	.01	.01	.03	15.0
SEP.								
12...	1625	1.3	.01	.01	.09	.10	.03	9.5

11341315 CASTLE LAKE CREEK AT ROAD CROSSING, NEAR MT SHASTA, CALIF. (LAT 41°16'07", LONG 122°20'15")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED 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)	TEMPERATURE (DEG C)
OCT.								
19...	1550	.48	.03	.03	.26	.29	.04	6.5
NOV.								
30...	1530	1.7	.01	.01	.22	.23	.01	3.0
FEB.								
10...	1310	2.2	--	.04	.19	.23	.02	2.0
APR.								
12...	1000	19	.01	.01	.09	.10	.02	2.0
MAY								
09...	1420	13	.01	.01	.01	.02	.04	9.0
JUNE								
14...	1600	2.9	.02	.02	.01	.03	.03	14.0
JULY								
11...	1540	.74	.04	.04	.10	.14	.03	15.5
AUG.								
10...	1500	.15	.09	.09	.02	.11	.02	17.0
SEP.								
13...	0940	.22	.02	.02	.08	.10	.01	9.0

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

11341310 SCOTT CAMP CREEK AT DIVERSION DAM, NEAR MT SHASTA, CALIF.--Continued

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.								
19...	1505	100	7.8	6.0	10.6	97	130	3
NOV.								
30...	1430	83	7.7	3.0	11.9	100	10	0
FEB.								
09...	1545	76	7.8	2.0	12.2	100	8	1
APR.								
12...	0915	36	7.4	2.0	12.0	98	6	0
MAY								
09...	1340	31	7.4	6.5	10.8	99	--	0
JUNE								
14...	1515	53	7.6	13.0	9.2	98	230	0
JULY								
11...	1115	86	8.0	13.0	9.4	100	--	2
AUG.								
10...	1410	105	7.9	15.0	8.9	99	--	0
SEP.								
12...	1625	105	8.0	9.5	9.7	95	--	0

11341315 CASTLE LAKE CREEK AT ROAD CROSSING, NEAR MT SHASTA, CALIF.--Continued

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.								
19...	1550	84	6.8	6.5	9.5	88	300	1
NOV.								
30...	1530	64	7.1	3.0	11.8	99	16	1
FEB.								
10...	1310	59	7.5	2.0	11.8	96	1	0
APR.								
12...	1000	33	7.4	2.0	12.1	99	8	2
MAY								
09...	1420	33	7.4	9.0	10.3	100	--	0
JUNE								
14...	1600	46	7.4	14.0	9.0	98	106	2
JULY								
11...	1540	63	7.7	15.5	8.7	98	--	0
AUG.								
10...	1500	81	7.7	17.0	8.5	99	--	0
SEP.								
13...	0940	85	7.8	9.0	10.3	100	--	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11341325 WAGON CREEK NEAR MT SHASTA, CALIF. (LAT 41°17'31", LONG 122°19'24")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED 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)	TEMPERATURE (DEG C)
OCT.								
19...	1100	32	.39	.39	.31	.70	.13	8.0
NOV.								
30...	0945	35	.46	.46	.38	.84	.08	6.0
FEB.								
09...	1000	42	--	.38	.27	.65	.10	3.5
APR.								
12...	1500	63	.23	.23	.23	.46	.08	6.0
MAY								
09...	0950	42	.27	.27	.07	.34	.09	8.0
JUNE								
14...	0840	35	.40	.40	.11	.51	.12	11.5
JULY								
11...	1420	20	.54	.54	.22	.76	.13	16.0
AUG.								
10...	0910	19	.50	.50	.12	.62	.11	12.5
SEP.								
12...	1030	17	.43	.43	.13	.56	.12	9.0

11341342 BIG SPRINGS CREEK BELOW HATCHERY, NEAR MT SHASTA, CALIF. (LAT 41°18'22", LONG 122°19'29")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED 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)	TEMPERATURE (DEG C)
OCT.								
19...	0910	3.7	.20	.20	.51	.71	.24	6.5
DEC.								
01...	0840	8.2	.16	.16	.42	.58	.17	5.5
FEB.								
09...	0900	.70	--	.17	.39	.56	.20	4.5
APR.								
12...	1530	7.7	.13	.13	.80	.93	.34	8.0
MAY								
10...	0845	7.0	.17	.17	.29	.46	.22	7.5
JUNE								
14...	1130	2.4	.19	.20	.41	.61	.32	10.5
AUG.								
09...	1110	E6.0	.20	.21	.45	.66	.22	10.0

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

11341325 WAGON CREEK NEAR MT SHASTA, CALIF.--Continued

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.								
19...	1110	110	8.1	8.0	10.3	99	2600	60
NOV.								
30...	0945	110	7.9	6.0	11.1	100	200	26
FEB.								
09...	1000	107	7.8	3.5	11.5	98	330	4
APR.								
12...	1500	106	7.9	6.0	10.7	97	200	8
MAY								
09...	0950	118	8.1	8.0	10.4	99	--	8
JUNE								
14...	0840	116	7.8	11.5	9.6	99	6000	22
JULY								
11...	1420	122	8.0	16.0	8.7	99	--	35
AUG.								
10...	0910	123	7.8	12.5	9.5	100	3800	44
SEP.								
12...	1030	120	8.0	9.0	10.4	101	1500	4

11341342 BIG SPRINGS CREEK BELOW HATCHERY, NEAR MT SHASTA, CALIF.--Continued

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.								
19...	0910	99	7.4	6.5	9.8	91	400	16
DEC.								
01...	0840	98	7.6	5.5	10.5	95	110	14
FEB.								
09...	0900	99	7.3	4.5	10.0	88	160	10
APR.								
12...	1530	101	7.4	8.0	9.4	90	20	4
MAY								
10...	0845	98	7.4	7.5	9.7	92	--	56
JUNE								
14...	1130	100	7.2	10.5	8.6	87	3500	12
AUG.								
09...	1110	99	7.3	10.0	9.1	91	2000	30

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11341344 COLD CREEK ABOVE LAKE SISKIYOU, NEAR MT SHASTA, CALIF. (LAT 41°17'22", LONG 122°19'11")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED 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)	TEMPERATURE (DEG C)
OCT.								
19...	1150	17	.13	.13	.42	.55	.13	8.0
DEC.								
01...	0930	22	.17	.17	.35	.52	.11	4.5
FEB.								
09...	1100	23	--	.21	.29	.50	.10	5.0
APR.								
12...	1030	27	.19	.19	.30	.49	.26	6.0
MAY								
09...	1030	14	.16	.16	.20	.36	.17	9.0
JUNE								
14...	1210	15	.14	.15	.27	.42	.16	14.5
JULY								
11...	1510	10	.20	.21	.44	.65	.20	17.0
AUG.								
10...	1015	15	.11	.12	.24	.36	.13	13.5
SEP.								
12...	1500	16	.12	.12	.29	.41	.18	11.5

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.								
19...	1150	105	8.0	8.0	10.5	101	1800	68
DEC.								
01...	0930	103	8.0	4.5	11.4	100	580	36
FEB.								
09...	1100	98	7.8	5.0	11.4	101	200	20
APR.								
12...	1030	96	7.8	6.0	10.8	98	1100	24
MAY								
09...	1030	104	8.0	9.0	10.3	100	--	216
JUNE								
14...	1210	106	7.9	14.5	9.1	100	3600	80
JULY								
11...	1510	112	7.6	17.0	8.5	99	--	800
AUG.								
10...	1015	114	7.8	13.5	9.2	99	5400	260
SEP.								
12...	1500	107	7.8	11.5	10.3	106	500	120

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11341348 LAKE SISKIYOU AT MIDPOINT, NEAR MT SHASTA, CALIF. (LAT 41°17'06", LONG 122°20'25")

DATE	TIME	DEPTH (FT)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	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)	TEMPER-ATURE (DEG C)
JULY										
12...	1135	3.3	.02	.24	.02	.26	.28	.01	.01	24.0
12...	1205	92	.00	.06	.13	.19	.19	.04	.01	9.0
AUG.										
11...	1515	3.3	.06	.04	.45	.49	.55	.02	.00	24.0
11...	1630	89	.02	.06	.20	.26	.28	.05	.01	9.5
SEP.										
15...	1550	3.3	.00	.01	.12	.13	.13	.04	.01	20.0
15...	1640	95	.03	.03	.57	.60	.63	.15	.01	10.5

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DEPTH (FT)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY SECCHI DISK (IN)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
JULY												
12...	1130	.0	--	--	--	106	8.6	24.0	144	8.3	111	--
12...	1135	3.3	65	2	57	106	8.7	24.0	--	8.3	111	.2
12...	1140	9.8	--	--	--	107	8.6	22.5	--	8.5	109	--
12...	1145	33	--	--	--	100	7.3	15.5	--	5.5	62	--
12...	1155	66	--	--	--	91	7.3	9.5	--	6.9	68	--
12...	1205	92	60	0	49	93	7.3	9.0	--	7.2	70	4.8
AUG.												
11...	1510	.0	60	7	61	119	9.0	24.0	120	--	--	.1
11...	1515	3.3	60	7	61	118	9.1	24.0	--	8.3	111	.1
11...	1525	9.8	--	--	--	118	9.0	24.0	--	8.5	113	--
11...	1535	16	--	--	--	118	9.0	24.0	--	8.4	112	--
11...	1550	26	--	--	--	112	7.4	18.5	--	3.8	45	--
11...	1600	33	68	0	56	109	7.2	17.5	--	2.0	24	6.8
11...	1615	49	--	--	--	100	7.1	13.0	--	3.3	35	--
11...	1630	89	60	0	49	96	7.2	9.5	--	5.0	49	6.0
SEP.												
15...	1545	.0	--	--	--	--	--	20.5	240	8.2	101	--
15...	1550	3.3	--	--	--	121	8.4	20.0	--	8.1	100	--
15...	1555	9.8	--	--	--	--	--	19.0	--	8.1	98	--
15...	1600	16	--	--	--	--	--	19.0	--	7.0	84	--
15...	1605	23	--	--	--	--	--	18.5	--	7.0	83	--
15...	1610	33	--	--	--	--	--	18.5	--	4.5	54	--
15...	1615	41	--	--	--	--	--	17.5	--	6.6	78	--
15...	1620	49	--	--	--	--	--	17.0	--	3.6	42	--
15...	1625	57	--	--	--	--	--	14.0	--	.7	8	--
15...	1630	66	--	--	--	--	--	13.0	--	2.1	22	--
15...	1635	82	--	--	--	--	--	11.5	--	3.5	36	--
15...	1640	95	--	--	--	97	7.3	10.5	--	3.4	34	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11341360 LAKE SISKIYOU NEAR MT SHASTA, CALIF. (LAT 41°16'46", LONG 122°19'43")

DATE	TIME	DEPTH (FT)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	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)	TEMPER-ATURE (DEG C)
OCT.											
20...	1500	.0	.10	.10	--	--	.21	.31	.05	--	12.0
20...	1515	100	.03	.03	--	--	--	--	--	--	7.5
DEC.											
01...	1450	.0	.06	.06	--	--	.28	.34	.03	--	7.0
01...	1515	100	.08	.08	--	--	.33	.41	.03	--	7.0
FEB.											
08...	1445	.0	--	.08	--	--	.42	.50	.04	--	3.0
08...	1500	100	--	.19	--	--	.33	.52	.06	--	3.5
APR.											
11...	1530	.0	.02	.02	--	--	.14	.16	.04	--	7.5
11...	1600	100	.01	.01	--	--	.09	.10	.04	--	6.5
MAY											
10...	1615	.0	.01	.01	--	--	.03	.04	.05	--	13.5
10...	1630	100	.02	.02	--	--	.02	.04	.04	--	7.0
JUNE											
15...	1700	.0	.01	.01	--	--	.09	.10	.05	--	17.5
15...	1730	100	.02	.02	--	--	.16	.18	.04	--	8.5
JULY											
12...	1525	3.3	--	.01	.08	.09	.17	.18	.02	.01	25.0
12...	1615	164	--	.03	.07	.02	.09	.12	.04	.01	8.5
AUG.											
11...	1715	3.3	--	.01	.04	.48	.52	.53	.02	.01	24.0
11...	1830	171	--	.04	.07	.21	.28	.32	.03	.01	8.5
SEP.											
15...	1035	3.3	--	.01	.05	.08	.13	.14	.06	.01	19.5
15...	1210	174	--	.04	.04	.05	.09	.13	.06	.01	8.5

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DEPTH (FT)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)
OCT.							
20...	1500	.0	--	--	--	116	7.7
20...	1515	100	--	--	--	91	7.1
DEC.							
01...	1450	.0	--	--	--	113	7.6
01...	1515	100	--	--	--	113	7.5
FEB.							
08...	1445	.0	--	--	--	112	8.0
08...	1500	100	--	--	--	110	7.8
APR.							
11...	1530	.0	--	--	--	83	8.0
11...	1600	100	--	--	--	87	7.9
MAY							
10...	1615	.0	--	--	--	88	8.2
10...	1630	100	--	--	--	91	7.7
JUNE							
15...	1700	.0	--	--	--	91	8.5
15...	1730	100	--	--	--	92	7.5
JULY							
12...	1520	.0	--	--	--	106	8.8
12...	1525	3.3	60	4	56	106	8.9
12...	1530	9.8	--	--	--	107	8.7
12...	1535	33	--	--	--	99	7.4
12...	1545	98	--	--	--	93	7.4
12...	1615	164	61	0	50	95	7.3
AUG.							
11...	1715	3.3	60	7	61	119	9.1
11...	1735	16	--	--	--	118	8.7
11...	1755	33	--	--	--	113	7.5
11...	1810	66	--	--	--	94	7.2
11...	1820	98	--	--	--	96	7.2
11...	1830	171	61	0	50	98	7.2
SEP.							
15...	1030	.0	--	--	--	--	8.2
15...	1035	3.3	72	0	59	121	8.2
15...	1040	9.8	--	--	--	--	--
15...	1045	16	--	--	--	--	--
15...	1050	23	--	--	--	--	--
15...	1055	33	--	--	--	--	--
15...	1100	49	--	--	--	--	--
15...	1105	57	61	0	50	102	6.9
15...	1110	66	--	--	--	--	--
15...	1120	82	--	--	--	--	--
15...	1125	98	--	--	--	--	--
15...	1130	115	--	--	--	--	--
15...	1140	131	--	--	--	--	--
15...	1150	148	--	--	--	--	--
15...	1200	164	--	--	--	--	--
15...	1210	174	58	0	48	97	7.0

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11341360 LAKE SISKIYOU NEAR MT SHASTA, CALIF.--Continued

DATE	TEMPERATURE (DEG C)	TRANSPARENCY SECCHI DISK (IN)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.							
20...	12.0	--	8.5	89	--	>5000	0
20...	7.5	--	5.9	56	--	300	0
DEC.							
01...	7.0	150	9.8	91	--	160	0
01...	7.0	--	9.6	89	--	240	0
FEB.							
08...	3.0	--	12.0	100	--	20	2
08...	3.5	--	11.4	97	--	106	8
APR.							
11...	7.5	90	10.8	101	--	8	2
11...	6.5	--	10.8	99	--	52	2
MAY							
10...	13.5	108	10.4	112	--	--	1
10...	7.0	--	10.0	93	--	--	0
JUNE							
15...	17.5	--	10.4	121	--	200	0
15...	8.5	--	8.9	86	--	130	0
JULY							
12...	26.5	126	8.7	121	--	--	--
12...	25.0	--	8.9	120	.1	--	--
12...	22.0	--	9.6	123	--	--	--
12...	15.0	--	5.7	63	--	--	--
12...	8.5	--	7.7	74	--	--	--
12...	8.5	--	7.0	67	4.9	--	--
AUG.							
11...	24.0	--	9.1	121	.1	--	--
11...	21.5	--	8.2	104	--	--	--
11...	18.0	--	4.3	51	--	--	--
11...	10.5	--	5.5	55	--	--	--
11...	8.5	--	6.4	62	--	--	--
11...	8.5	--	5.6	54	6.1	--	--
SEP.							
15...	19.5	288	7.5	91	--	--	--
15...	19.5	--	7.6	93	.7	--	--
15...	19.0	--	7.1	86	--	--	--
15...	18.5	--	6.8	81	--	--	--
15...	18.5	--	6.2	74	--	--	--
15...	18.0	--	6.4	75	--	--	--
15...	16.5	--	5.4	62	--	--	--
15...	14.5	--	1.6	18	12	--	--
15...	13.0	--	2.3	24	--	--	--
15...	11.5	--	3.7	38	--	--	--
15...	10.0	--	4.8	48	--	--	--
15...	10.0	--	4.7	47	--	--	--
15...	9.0	--	3.8	37	--	--	--
15...	9.0	--	3.7	36	--	--	--
15...	9.0	--	3.5	34	--	--	--
15...	8.5	--	3.4	33	9.2	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11341350 LAKE SISKIYOU IN WAGON-COLD CREEK ARM, NEAR MT SHASTA, CALIF. (LAT 41°17'01", LONG 122°19'40")

DATE	TIME	DEPTH (FT)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	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)	TEMPER-ATURE (DEG C)
JULY										
12...	1425	3.3	.01	.04	.07	.11	.12	.03	.01	25.0
12...	1505	121	.02	.03	.27	.30	.32	.04	.01	8.0
AUG.										
11...	1145	3.3	.01	.05	.17	.22	.23	.02	.01	24.0
11...	1300	115	.00	.10	.18	.28	.28	.03	.01	9.0
SEP.										
15...	1450	3.3	.00	.07	.13	.20	.20	.05	.01	19.5
15...	1530	105	.03	.06	--	--	--	.06	.01	9.5

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DEPTH (FT)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY SECCHI DISK (IN)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
JULY												
12...	1420	.0	--	--	--	106	8.8	26.0	96	9.3	127	--
12...	1425	3.3	60	4	56	106	8.8	25.0	--	9.9	134	.2
12...	1435	9.8	--	--	--	107	8.7	22.0	--	9.6	123	--
12...	1445	33	--	--	--	99	7.4	15.0	--	5.7	63	--
12...	1500	82	--	--	--	92	7.4	9.0	--	7.4	72	--
12...	1505	121	60	0	49	93	7.3	8.0	--	7.4	70	4.8
AUG.												
11...	1145	3.3	60	7	61	118	9.0	24.0	--	8.8	117	.1
11...	1155	9.8	--	--	--	118	9.0	23.5	--	9.4	124	--
11...	1205	16	--	--	--	118	8.6	20.8	--	8.4	105	--
11...	1225	33	--	--	--	109	7.3	17.7	--	3.2	38	--
11...	1250	82	--	--	--	94	7.2	10.0	--	5.8	57	--
11...	1300	115	60	0	49	95	7.2	9.0	--	5.5	53	6.0
SEP.												
15...	1445	.0	--	--	--	--	8.4	21.0	288	8.4	105	--
15...	1450	3.3	--	--	--	121	8.4	19.5	--	8.1	99	--
15...	1452	9.8	--	--	--	--	--	19.0	--	7.8	94	--
15...	1455	16	--	--	--	--	--	18.5	--	7.2	86	--
15...	1457	23	--	--	--	--	--	18.5	--	6.8	81	--
15...	1500	33	--	--	--	--	--	18.0	--	7.0	82	--
15...	1503	49	--	--	--	--	--	16.5	--	6.6	76	--
15...	1505	57	--	--	--	--	--	13.5	--	1.4	15	--
15...	1508	66	--	--	--	--	--	13.0	--	2.1	22	--
15...	1510	82	--	--	--	--	--	11.5	--	3.2	33	--
15...	1520	98	--	--	--	--	--	10.0	--	4.3	43	--
15...	1530	105	--	--	--	94	7.3	9.5	--	4.3	42	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11341365 SACRAMENTO RIVER ABOVE SEWAGE EFFLUENT, NEAR MT SHASTA, CALIF. (LAT 41°16'49", LONG 122°19'21")

DATE	TIME	DIS-SOLVED 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)	TEMPER-ATURE (DEG C)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
OCT.								
21...	1230	.10	.10	.21	.31	.07	10.5	--
JUNE								
15...	1200	.03	.03	.18	.21	.07	10.0	--
JULY								
13...	1030	.02	.02	.14	.16	.02	13.0	.7
AUG.								
12...	1500	.02	.02	.24	.26	.04	11.5	.5
SEP.								
14...	1100	.07	.07	.17	.24	.04	9.5	.3

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TOTAL RESI-DUAL CHLO-RINE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.									
21...	1230	.00	124	7.9	10.5	10.0	100	1000	0
JUNE									
15...	1200	.00	98	8.0	10.0	10.2	100	350	2
JULY									
13...	1030	--	108	8.0	13.0	9.5	100	--	0
AUG.									
12...	1500	--	111	8.2	11.5	9.9	100	1800	2
SEP.									
14...	1100	--	108	7.9	9.5	10.4	101	600	2

11341370 MT SHASTA SEWAGE EFFLUENT AT WEIR, NEAR MT SHASTA, CALIF. (LAT 41°16'51", LONG 122°19'16")

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	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)	TEMPER-ATURE (DEG C)
JUNE							
15...	0745	.66	--	7.0	--	4.5	20.0
JULY							
13...	0830	.38	.13	7.4	7.5	1.2	22.5
AUG.							
12...	1030	.49	--	8.5	--	5.5	22.5
SEP.							
14...	0950	.60	--	7.1	--	5.7	14.5

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL RESI-DUAL CHLO-RINE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.								
21...	0845	.71	5.0	--	7.0	5.5	0	0
JUNE								
15...	0745	.66	4.1	--	6.9	20.0	0	0
JULY								
13...	0830	.38	3.0	--	7.0	22.5	--	[illegible]
AUG.								
12...	1030	.49	2.2	--	7.9	22.5	22000	0
SEP.								
14...	0950	.60	2.7	216	6.9	14.5	1000	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11341375 MT SHASTA SEWAGE EFFLUENT AT RIVER, NEAR MT SHASTA, CALIF. (LAT 41°16'48", LONG 122°19'21")

DATE	TIME	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)	TEMPER-ATURE (DEG C)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
JUNE							
15...	1230	--	6.7	--	4.4	21.0	--
JULY							
13...	1200	1.9	5.2	7.1	1.1	22.5	--
AUG.							
12...	1105	--	9.5	--	5.2	19.0	23
SEP.							
14...	1040	--	8.8	--	5.3	--	21

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TOTAL RESI-DUAL CHLO-RINE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.							
21...	1300	3.5	--	7.8	8.5	0	0
JUNE							
15...	1230	1.8	--	8.1	21.0	0	0
JULY							
13...	1200	--	--	7.9	22.5	>3600	0
AUG.							
12...	1105	1.8	--	7.6	19.0	>680000	120
SEP.							
14...	1040	1.8	223	7.7	14.0	40000	<100

11341380 SACRAMENTO RIVER BELOW SEWAGE EFFLUENT, NEAR MT SHASTA, CALIF. (LAT 41°16'47", LONG 122°19'21")

DATE	TIME	DIS-SOLVED 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)	TEMPER-ATURE (DEG C)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
OCT.								
21...	1330	.05	.05	.24	.29	.10	11.0	--
JUNE								
15...	1220	.02	.02	.17	.19	.14	10.0	--
JULY								
13...	0950	.03	.03	.22	.25	.06	13.0	.7
AUG.								
12...	1530	.02	.02	.30	.32	--	11.5	.5
SEP.								
14...	1120	.07	.07	.27	.34	.12	10.0	.4

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TOTAL RESI-DUAL CHLO-RINE (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.									
21...	1330	.10	125	7.9	11.0	9.9	100	60	0
JUNE									
15...	1220	.00	99	8.0	10.0	10.2	100	630	0
JULY									
13...	0950	.00	110	7.9	13.0	9.5	100	--	0
AUG.									
12...	1530	.00	112	8.1	11.5	9.9	100	7000	8
SEP.									
14...	1120	.00	109	7.9	10.0	10.4	102	1300	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11341440 SACRAMENTO RIVER AT SHASTA RETREAT, NEAR DUNSMUIR, CALIF. (LAT 41°14'13", LONG 122°16'32")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED 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)	TEMPERATURE (DEG C)
OCT.								
20...	0830	173	.10	.10	.26	.36	.10	8.5
DEC.								
01...	1130	--	.10	.10	--	--	.05	6.5
FEB.								
10...	0900	165	--	.13	.19	.32	.06	4.0
APR.								
13...	0815	--	.04	.04	.12	.16	.05	6.0
MAY								
10...	1120	--	.01	.01	.06	.07	.05	10.5
JUNE								
13...	1300	274	.05	.05	.13	.18	.10	11.5

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.									
20...	0830	173	132	7.7	8.5	10.4	97	400	2
DEC.									
01...	1130	--	127	7.8	6.5	11.4	101	130	2
FEB.									
10...	0900	165	129	7.6	4.0	11.9	99	120	0
APR.									
13...	0815	--	100	7.5	6.0	11.4	100	140	4
MAY									
10...	1120	--	96	7.8	10.5	10.3	101	--	0
JUNE									
13...	1300	274	106	7.6	11.5	10.0	100	400	0

11341460 SACRAMENTO RIVER AT SODA CREEK ROAD, NEAR DUNSMUIR, CALIF. (LAT 41°09'39", LONG 122°17'33")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED 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)	TEMPERATURE (DEG C)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
OCT.									
20...	1015	189	.15	.15	.27	.42	.11	8.5	--
DEC.									
01...	1605	222	.09	.09	--	--	.05	7.0	--
FEB.									
10...	0815	206	--	.13	.22	.35	.06	4.0	--
APR.									
13...	1110	595	.03	.03	.10	.13	.06	8.0	--
MAY									
10...	1400	487	.01	.01	.08	.09	.10	13.0	--
JUNE									
13...	1030	407	.04	.04	.13	.17	.11	11.0	--
JULY									
12...	0830	129	.04	.04	.15	.19	.09	12.0	.5
AUG.									
10...	1700	119	.00	.00	.14	.14	.11	19.0	.7
SEP.									
13...	1600	130	.02	.02	.09	.11	.13	14.0	.4

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
OCT.									
20...	1015	189	132	7.8	8.5	10.7	99	2100	70
DEC.									
01...	1605	222	128	7.9	7.0	11.4	101	4200	210
FEB.									
10...	0815	206	124	7.8	4.0	12.1	100	650	40
APR.									
13...	1110	595	97	7.6	8.0	11.1	101	480	120
MAY									
10...	1400	487	95	7.9	13.0	9.7	99	--	0
JUNE									
13...	1030	407	104	7.9	11.0	10.6	103	1000	16
JULY									
12...	0830	129	133	7.8	12.0	9.9	99	--	30
AUG.									
10...	1700	119	136	8.5	19.0	9.0	103	2600	24
SEP.									
13...	1600	130	133	8.3	14.0	10.1	105	1700	4

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11345500 SOUTH FORK PIT RIVER NEAR LIKELY, CALIF. (LAT 41°13'51", LONG 120°26'10")1/

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.								
13...	0830	48	4.5	59	0	48	1.4	39
JUNE								
16...	0715	169	3.9	44	0	36	.0	32

DATE	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
OCT.							
13...	0	.3	101	7.9	8.0	--	0
JUNE							
16...	0	.3	78	7.3	12.5	4	0

11365000 PIT RIVER NEAR MONTGOMERY CREEK, CALIF. (LAT 40°50'36", LONG 122°00'58")1/

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)
NOV.								
17...	1005	2670	--	--	--	--	--	--
JAN.								
05...	1045	7850	--	--	--	--	--	--
MAR.								
07...	1015	13800	--	--	--	--	--	--
MAY								
16...	1010	8080	7.9	76	0	62	2.5	49
JULY								
18...	1030	6920	--	--	--	--	--	--
SEP.								
07...	1030	3830	--	--	--	--	--	--

DATE	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
NOV.							
17...	--	--	--	--	7.5	2	--
JAN.							
05...	--	--	--	--	5.0	3	--
MAR.							
07...	--	--	--	--	10.0	64	--
MAY							
16...	0	.5	132	7.8	15.0	4	0
JULY							
18...	--	--	--	--	20.0	1	--
SEP.							
07...	--	--	--	--	18.0	0	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
11345500 SOUTH FORK PIT RIVER NEAR LIKELY, CALIF.--Continued						
OCT.						
13...	0830	48	97	7.4	8.0	10.8
JUNE						
16...	0715	169	77	7.8	12.5	9.0
11376500 PIT RIVER NEAR MONTGOMERY CREEK, CALIF.--Continued						
NOV.						
17...	1005	2670	147	7.4	7.5	11.7
JAN.						
05...	1045	7850	146	7.3	5.0	12.4
MAR.						
07...	1015	13800	116	7.3	10.0	11.4
MAY						
16...	1010	8080	133	7.9	15.0	10.0
JULY						
18...	1030	6920	122	8.1	20.0	9.1
SEP.						
07...	1030	3830	138	8.0	18.0	9.3

1/ Records furnished by California Department of Water Resources.

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11368000 MCCLOUD RIVER ABOVE SHASTA LAKE, CALIF. (LAT 40°57'30", LONG 122°13'07")2/

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)1/	DISSOLVED OXYGEN (MG/L)
NOV.							
16...	0915	346	111	8.0	4.5	0	12.6
JAN.							
04...	0830	201	120	8.1	1.5	5	13.2
MAR.							
06...	0830	1310	98	7.3	8.0	1	11.2
MAY							
16...	1245	429	116	7.7	13.0	1	10.4
JULY							
18...	1230	320	101	7.9	19.0	1	9.1
SEP.							
07...	1215	301	104	7.8	15.0	0	10.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

11378930 SACRAMENTO RIVER BELOW RED BLUFF DIVERSION DAM, NEAR RED BLUFF, CALIF. (LAT 40°09'07", LONG 122°11'47")

DATE	TIME	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)
MAY									
02...	1500	11300	24	--	9.8	5.2	6.6	2.0	66
JULY									
18...	1700	11700	21	40	9.3	5.3	6.2	1.1	63
AUG.									
23...	1030	9520	21	50	9.4	5.3	6.4	1.1	62
SEP.									
27...a	1100	7470	18	80	10	5.9	5.3	.9	58
27...	1200	7470	18	100	8.5	5.8	5.3	.9	58

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)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)
MAY									
02...	0	54	5.7	3.3	.1	.08	.00	.17	.25
JULY									
18...	0	52	5.0	2.0	.1	.04	.00	.19	.23
AUG.									
23...	0	51	5.6	3.0	.1	.00	.00	.15	.15
SEP.									
27...	0	48	4.5	2.7	.1	--	--	--	--
27...	0	47	5.0	2.9	.2	--	--	--	--

DATE	TOTAL 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)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
MAY								
02...	.06	90	.12	46	0	127	6.5	12.5
JULY								
18...	.07	81	.11	45	0	114	6.8	14.0
AUG.								
23...	.06	83	.11	45	0	115	7.3	14.5
SEP.								
27...	--	76	.10	49	1	113	5.6	13.0
27...	--	75	.10	45	0	123	5.8	13.0

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED BORON (B) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)
MAY				
02...	1500	0	50	0
JULY				
18...	1700	--	40	--
AUG.				
23...	1030	--	40	--
SEP.				
27...	1100	--	50	--
27...	1200	3	50	0

1/ Laboratory determinations. 2/ Records furnished by California Department of Water Resources.
a Sample filtered through 0.10 micron-membrane filter.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11383800 SACRAMENTO RIVER NEAR HAMILTON CITY, CALIF. (LAT 39°45'06", LONG 121°59'40")2/

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)1/	DISSOLVED OXYGEN (MG/L)
NOV.							
18...	1415	7430	122	7.4	11.0	4	11.8
JAN.							
06...	1430	8540	141	7.4	7.5	4	12.3
MAR.							
08...	1315	21000	123	7.3	10.5	12	10.9
MAY							
10...	1245	10000	127	7.6	13.0	4	11.5
JULY							
17...	0630	9440	106	8.2	16.0	5	8.9
SEP.							
06...	0645	6970	114	7.3	16.0	3	8.5

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

11384000 BIG CHICO CREEK NEAR CHICO, CALIF. (LAT 39°46'35", LONG 121°45'10")2/

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)
NOV.								
18...	1330	30	--	--	--	--	--	--
JAN.								
06...	1345	48	11	81	0	66	9.6	66
MAR.								
08...	1230	122	--	--	--	--	--	--
MAY								
10...	1130	50	--	--	--	--	--	--
JULY								
17...	0730	20	--	--	--	--	--	--
SEP.								
06...	0745	17	--	--	--	--	--	--

DATE	NONCARBONATE HARDNESS (MG/L)	SODIUM ADSORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
NOV.							
18...	--	--	--	--	7.0	0	--
JAN.							
06...	0	.6	163	7.8	3.0	--	200
MAR.							
08...	--	--	--	--	11.0	4	--
MAY							
10...	--	--	--	--	14.0	0	--
JULY							
17...	--	--	--	--	24.0	1	--
SEP.							
06...	--	--	--	--	21.0	0	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
NOV.						
18...	1330	30	193	7.8	7.0	12.6
JAN.						
06...	1345	48	159	7.5	3.0	14.0
MAR.						
08...	1230	122	106	7.5	11.0	11.3
MAY						
10...	1130	50	160	7.9	14.0	10.7
JULY						
17...	0730	20	206	7.9	24.0	7.9
SEP.						
06...	0745	17	197	7.8	21.0	8.9

1/ Laboratory determinations.
2/ Records furnished by California Department of Water Resources.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11389500 SACRAMENTO RIVER AT COLUSA, CALIF. (LAT 39°12'51", LONG 121°59'57")

DATE	TIME	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)
MAY									
03...	0930	8930	24	--	10	5.2	7.4	2.0	72
JULY									
19...	1000	8530	21	40	11	5.5	6.8	1.1	68
AUG.									
23...	1500	7120	21	60	10	5.7	6.8	1.2	68
SEP.									
28... a	1000	7050	19	40	12	6.3	5.7	.9	63
28...	1100	7050	20	30	11	7.8	10	1.1	80

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)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
MAY									
03...	0	59	7.6	3.9	.1	.06	.00	.20	.26
JULY									
19...	0	56	5.2	2.0	.1	.04	.00	.10	.14
AUG.									
23...	0	56	6.0	3.2	.1	.01	.00	.15	.16
SEP.									
28...	0	53	5.4	3.3	.1	--	--	.22	--
28...	0	66	5.1	3.3	.1	--	--	--	--

DATE	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)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
MAY								
03...	.06	96	.13	46	0	136	6.8	15.5
JULY								
19...	.06	86	.12	50	0	125	6.8	19.0
AUG.								
23...	.08	88	.12	48	0	126	7.4	19.5
SEP.								
28...	--	84	.11	56	4	123	6.1	15.0
28...	--	98	.13	60	0	178	6.3	15.0

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
MAY				
03...	0930	0	60	0
JULY				
19...	1000	--	50	--
AUG.				
23...	1500	--	50	--
SEP.				
28...	1000	--	60	--
28...	1100	0	80	0

a Sample filtered through 0.10 micron-membrane filter.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11391000 SACRAMENTO RIVER AT KNIGHTS LANDING, CALIF. (LAT 38°48'11", LONG 121°42'55")

DATE	TIME	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)
MAY									
04...	1230	6990	24	--	11	6.2	9.7	2.1	77
JULY									
19...	1600	7460	21	180	10	5.9	8.6	1.3	75
AUG.									
24...	0800	7110	19	40	14	9.0	16	1.3	105
SEP.									
28... a	1400	7680	20	60	17	8.9	13	1.4	87
28...	1500	7680	20	20	15	8.2	12	1.2	87

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)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)
MAY									
04...	0	63	8.8	4.9	.1	.15	.04	.16	.35
JULY									
19...	0	62	6.8	3.0	.1	.08	.00	.13	.21
AUG.									
24...	0	86	15	7.9	.2	.01	.00	.24	.25
SEP.									
28...	0	71	12	6.6	.2	--	--	--	--
28...	0	71	11	6.2	.2	--	--	--	--

DATE	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)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
MAY								
04...	.08	105	.14	53	0	155	6.6	17.0
JULY								
19...	.07	94	.13	49	0	139	6.8	21.5
AUG.								
24...	.11	135	.18	72	0	228	7.5	20.5
SEP.								
28...	--	122	.17	79	8	186	6.3	17.0
28...	--	117	.16	71	0	186	6.2	17.0

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)
MAY				
04...	1230	2	70	0
JULY				
19...	1600	--	60	--
AUG.				
24...	0800	--	90	--
SEP.				
28...	1400	--	30	--
28...	1500	0	50	0

a Sample filtered through 0.10 micron membrane filter.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11392100 MIDDLE FORK FEATHER RIVER NEAR PORTOLA, CALIF. (LAT 39°49'07", LONG 120°26'37")

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	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)
OCT.											
26...	1515	45	2.0	1.5	.01	.18	.18	.36	.37	.07	.02
JAN.											
04...	1230	99	3.8	2.7	.02	.11	.42	.53	.55	.07	.01

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
26...	120	.16	14.6	147	6.5	25	4	.7	2.0	.00
JAN.										
04...	110	.15	29.4	--	.0	40	3	1.3	3.5	.00

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.												
26...	1515	45	84	0	69	143	8.0	6.5	10.0	98	220	20
JAN.												
04...	1230	99	86	0	71	151	6.8	.0	5.5	45	124	16

11392200 MIDDLE FORK FEATHER RIVER AT DELLEKER, CALIF. (LAT 39°48'07", LONG 120°29'42")

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	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)
OCT.											
27...	0830	49	2.5	2.7	.01	.20	.12	.32	.33	.07	.02
JAN.											
04...	1415	99	4.6	3.0	.05	.10	.36	.46	.51	.05	.02
APR.											
24...	1210	94	--	--	.12	.03	.45	.48	.60	.07	.02
24...	1730	--	--	--	.13	.03	.40	.43	.56	.07	.02
25...	0400	--	--	--	.13	.06	.32	.38	.51	.08	.01
25...	1100	--	--	--	.11	.05	.49	.54	.65	.07	.03
25...	1600	--	--	--	.10	.08	.39	.47	.57	.07	.01
26...	0515	--	--	--	.09	.08	.23	.31	.40	.08	.02
AUG.											
23...	1330	12	--	--	.00	.03	.45	.48	.48	.06	.01

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
27...	108	.15	14.3	152	4.5	25	4	.8	3.0	.00
JAN.										
04...	116	.16	31.0	--	.0	40	3	1.1	5.5	.00
APR.										
24...	--	--	--	--	12.0	--	--	--	--	--
24...	--	--	--	--	12.0	--	--	--	--	--
25...	--	--	--	--	10.0	--	--	--	--	--
25...	--	--	--	--	11.0	--	--	--	--	--
25...	--	--	--	--	13.5	--	--	--	--	--
26...	--	--	--	--	10.0	--	--	--	--	--
AUG.										
23...	--	--	--	--	21.0	--	--	--	--	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11392200 MIDDLE FORK FEATHER RIVER AT DELLEKER, CALIF.--Continued

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.												
27...	0830	49	84	0	69	147	7.9	4.5	9.5	89	800	16
JAN.												
04...	1415	99	86	0	71	151	6.9	.0	7.7	63	80	10
APR.												
24...	1210	94	76	0	62	--	7.5	12.0	9.2	102	--	--
24...	1540	--	80	0	66	--	7.9	12.5	9.4	105	--	--
24...	1730	--	72	0	59	--	7.4	12.0	8.9	98	--	--
25...	0400	--	70	0	57	--	7.0	10.0	7.8	83	--	--
25...	0600	--	76	0	62	--	7.3	10.0	8.0	85	--	--
25...	0900	--	76	0	62	--	7.3	10.0	8.5	90	--	--
25...	1100	--	78	0	64	--	7.5	11.0	9.1	98	--	--
25...	1430	--	78	0	64	--	7.7	13.0	9.7	110	--	--
25...	1600	--	80	0	66	--	7.7	13.5	9.7	111	--	--
25...	1900	--	74	0	61	--	7.7	13.0	9.1	103	--	--
26...	0515	--	76	0	62	--	7.0	10.0	7.7	81	--	--
26...	0705	--	78	0	64	--	7.1	10.0	7.9	84	--	--
AUG.												
23...	1330	12	68	0	56	119	7.7	21.0	7.7	103	--	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
AUG.											
23...	1330	.00	<.2	.0	<1	.00	<.2	.00	<.2	.00	<.2

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG.											
23...	.00	<.2	.00	<.2	.00	<.2	.00	<.2	.00	.00	.00

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
AUG.								
23...	1330	0	1	0	1	5	.9	140

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11392400 SULFUR CREEK NEAR MOUTH, NEAR CLIO, CALIF. (LAT 39°44'27", LONG 120°34'44")

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)	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 AMMONIA NITRO-GEN (N) (MG/L)
OCT.												
27...	0945	22	60	21	2.8	5.3	1.6	3.5	.4	.0	.02	.18

DATE	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)	HARD-NESS (CA,MG) (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	DIS-SOLVED BORON (B) (UG/L)
OCT.											
27...	.12	.30	.32	.07	.04	64	15	.3	148	4.0	20

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	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	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.												
27...	0945	86	0	71	144	8.1	4.0	1	11.1	100	560	46

11393300 MIDDLE FORK FEATHER RIVER BELOW LONG VALLEY CREEK, AT SLOAT, CALIF. (LAT 39°51'58", LONG 120°44'00")

DATE	TIME	DIS-CHARGE (CFS)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	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)
OCT.											
27...	1320	125	3.8	1.2	.00	.15	.12	.27	.27	.07	.03
JAN.											
05...	0930	142	5.2	1.8	.04	.04	.30	.34	.38	.05	.01
APR.											
24...	1400	488	--	--	.02	.23	.06	.29	.31	.04	.00
24...	1900	--	--	--	.03	.11	.03	.14	.17	.03	.00
25...	0500	--	--	--	.04	.07	.04	.11	.15	.04	.00
25...	1000	--	--	--	.06	.07	.04	.11	.17	.04	.00
25...	1515	--	--	--	.04	.06	.03	.09	.13	.03	.00
26...	0430	--	--	--	.05	.06	.07	.13	.18	.03	.00
AUG.											
23...	1600	55	--	--	.00	.02	.16	.18	.18	.07	.03

DATE	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.										
27...	122	.17	41.2	141	5.5	15	2	.4	.5	.00
JAN.										
05...	110	.15	42.2	--	.0	15	2	.2	3.0	.00
APR.										
24...	--	--	--	--	9.0	--	--	--	--	--
24...	--	--	--	--	8.0	--	--	--	--	--
25...	--	--	--	--	6.0	--	--	--	--	--
25...	--	--	--	--	7.0	--	--	--	--	--
25...	--	--	--	--	11.5	--	--	--	--	--
26...	--	--	--	--	6.5	--	--	--	--	--
AUG.										
23...	--	--	--	--	23.5	--	--	--	--	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11393300 MIDDLE FORK FEATHER RIVER BELOW LONG VALLEY CREEK, AT SLOAT, CALIF.--Continued

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
OCT.												
27...	1320	125	80	0	66	137	8.2	5.5	10.7	100	130	4
JAN.												
05...	0930	142	78	0	64	139	7.8	.0	12.9	102	50	4
APR.												
24...	1400	488	50	0	41	--	7.7	9.0	9.9	99	--	--
24...	1620	--	48	0	39	--	7.8	9.0	9.8	98	--	--
24...	1900	--	44	0	36	--	7.2	8.0	9.7	96	--	--
25...	0500	--	48	0	39	--	7.0	6.0	10.2	96	--	--
25...	0700	--	48	0	39	--	7.0	5.5	10.6	98	--	--
25...	1000	--	46	0	38	--	7.3	7.0	10.3	99	--	--
25...	1330	--	48	0	39	--	7.6	10.5	9.6	100	--	--
25...	1515	--	48	0	39	--	7.6	11.5	9.4	100	--	--
25...	1800	--	50	0	41	--	7.5	10.5	9.3	97	--	--
26...	0430	--	40	0	33	--	6.9	6.5	10.1	96	--	--
26...	0615	--	44	0	36	--	7.0	5.5	10.4	96	--	--
AUG.												
23...	1600	55	66	6	64	133	8.9	23.5	8.2	123	--	--

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
AUG.											
23...	1600	.00	<.2	.0	<1	.00	<.2	.00	<.2	.00	<.2

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG.											
23...	.00	<.2	.00	<.2	.00	<.2	.00	<.2	.00	.00	.00

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
AUG.								
23...	1600	0	0	0	1	4	.6	50

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11402000 SPANISH CREEK ABOVE BLACKHAWK CREEK, AT KEDDIE, CALIF. (LAT 40°00'11", LONG 120°57'12")

DATE	TIME	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)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)
OCT.												
27...	1715	61	--	--	--	--	--	--	--	--	--	--
FEB.												
26...	0900	669	--	--	20	--	--	--	--	--	--	--
MAY												
16...	1700	215	16	140	--	10	4.2	2.6	.5	52	0	43
17...	0430	216	--	--	--	--	--	--	--	--	--	--
17...	1130	210	--	--	--	--	--	--	--	--	--	--
SEP.												
06...	1315	33	--	--	--	--	--	--	--	--	--	--

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 AMMONIA NITRO-GEN (N) (MG/L)	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 (SUM OF CONSTI-TUENTS) (MG/L)
OCT.											
27...	--	--	--	.00	.13	.10	.23	.23	.05	.02	--
FEB.											
26...	--	--	--	.07	.10	.30	.40	.47	.06	.00	--
MAY											
16...	2.0	1.1	.0	.04	.02	.12	.14	.18	.02	.00	62
17...	--	--	--	.00	.00	.30	.30	.30	.03	.00	--
17...	--	--	--	.00	.01	.21	.22	.22	.03	.02	--
SEP.											
06...	--	--	--	.03	.08	.15	.23	.26	.02	.02	--

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)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
OCT.											
27...	--	--	--	--	--	--	--	--	7.0	1	--
FEB.											
26...	--	--	--	--	--	--	--	--	4.5	15	.00
MAY											
16...	.08	36.0	42	0	12	.2	83	6.7	14.0	--	--
17...	--	--	--	--	--	--	--	--	14.0	--	--
17...	--	--	--	--	--	--	--	--	12.0	--	--
SEP.											
06...	--	--	--	--	--	--	--	--	18.0	--	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION
OCT.										
27...	1715	61	--	--	--	135	8.4	7.0	10.5	98
FEB.										
26...	0900	669	--	--	--	81	7.8	4.5	11.7	102
MAY										
16...	1700	215	49	0	40	81	8.0	14.0	9.2	100
17...	0430	216	50	0	41	--	7.7	14.0	8.9	97
17...	1130	210	50	0	41	--	7.9	12.0	9.7	101
SEP.										
06...	1315	33	95	0	78	160	8.2	18.0	8.8	104

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (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 ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
FEB.												
26...	0	--	--	0	--	0	--	1	--	1.4	--	10
SEP.												
06...	--	0	0	--	0	--	1	--	.5	--	30	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11410500 NORTH YUBA RIVER NEAR SIERRA CITY, CALIF. (LAT 39°33'45", LONG 120°39'30")

DATE	TIME	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)	CAR-BONATE (CO3) (MG/L)
NOV.											
04...	1345	66	--	--	--	--	--	--	--	--	--
FEB.											
25...	1100	--	--	--	--	--	--	--	--	--	--
APR.											
06...	1310	549	11	30	10	5.9	1.6	1.5	.4	32	0
JUNE											
08...	1200	--	14	30	--	5.4	1.0	1.9	.4	30	0
08...	1730	--	--	--	--	--	--	--	--	--	--
09...	0520	--	--	--	--	--	--	--	--	--	--
09...	1030	--	--	--	--	--	--	--	--	--	--
SEP.											
07...	1115	68	--	--	--	--	--	--	--	--	--

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 AMMONIA 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 (SUM OF CONSTI-TUENTS) (MG/L)
NOV.											
04...	--	--	--	--	.03	.15	.22	.25	.04	.01	--
FEB.											
25...	--	--	--	--	.04	.04	.29	.33	.05	.00	--
APR.											
06...	26	2.0	1.3	.0	.03	.02	.22	.25	.05	.00	40
JUNE											
08...	25	2.0	.0	.0	.05	.09	.19	.24	.05	.00	40
08...	--	--	--	--	.04	.02	.21	.25	.05	.00	--
09...	--	--	--	--	.04	.07	.16	.20	.06	.01	--
09...	--	--	--	--	.04	.08	.10	.14	.05	.01	--
SEP.											
07...	--	--	--	--	.01	.02	.10	.11	.02	.02	--

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)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV.											
04...	--	--	--	--	--	--	--	--	4.0	0	--
FEB.											
25...	--	--	--	--	--	--	--	--	4.0	1	--
APR.											
06...	.05	59.3	21	0	13	.1	57	7.9	4.0	--	.00
JUNE											
08...	.05	--	18	0	19	.2	47	6.7	10.5	--	--
08...	--	--	--	--	--	--	--	--	11.5	--	--
09...	--	--	--	--	--	--	--	--	9.5	--	--
09...	--	--	--	--	--	--	--	--	9.5	--	--
SEP.											
07...	--	--	--	--	--	--	--	--	13.5	--	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
NOV.												
04...	1345	66	--	--	--	90	8.0	4.0	11.2	100	18	8
FEB.												
25...	1100	--	--	--	--	85	7.3	4.0	11.1	98	--	--
JUNE												
08...	1200	--	26	0	21	43	7.5	10.5	9.6	98	--	--
08...	1730	--	26	0	21	41	7.8	11.5	9.2	96	--	--
09...	0520	--	25	0	21	42	7.6	9.5	9.6	97	--	--
09...	1030	--	26	0	21	--	7.7	9.5	9.6	97	--	--
SEP.												
07...	1115	68	64	0	52	105	8.1	13.5	9.3	102	--	--

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11410500 NORTH YUBA RIVER NEAR SIERRA CITY, CALIF.--Continued

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)
APR.							
06...	1	20	--	--	0	--	3
SEP.							
07...	--	--	0	0	--	1	--

DATE	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
APR.						
06...	--	3	--	.6	--	30
SEP.						
07...	2	--	.2	--	20	--

11413000 NORTH YUBA RIVER BELOW GOODYEARS BAR, CALIF. (LAT 39°31'30", LONG 120°56'13")

DATE	TIME	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)	CAR-BONATE (CO3) (MG/L)
NOV.											
04...	1115	184	--	--	--	--	--	--	--	--	--
FEB.											
25...	1330	1290	--	--	0	--	--	--	--	--	--
APR.											
06...	1040	2870	10	20	10	6.2	1.7	1.2	.3	32	0
JUNE											
08...	1315	1060	12	10	--	8.8	1.6	1.2	.3	43	0
08...	1630	1060	--	--	--	--	--	--	--	--	--
09...	0430	1100	--	--	--	--	--	--	--	--	--
09...	1220	1020	--	--	--	--	--	--	--	--	--
SEP.											
07...	1310	162	--	--	--	--	--	--	--	--	--

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 AMMONIA 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 (SUM OF CONSTI-TUENTS) (MG/L)
NOV.											
04...	--	--	--	--	.04	.18	.19	.23	.04	.02	--
FEB.											
25...	--	--	--	--	.02	.06	.33	.35	.03	.00	--
APR.											
06...	26	2.2	.1	.0	.04	.02	.12	.16	.03	.00	38
JUNE											
08...	35	2.0	.1	.0	.04	.02	.18	.22	.03	.00	47
08...	--	--	--	--	.05	.03	.12	.17	--	.00	--
09...	--	--	--	--	.04	.06	.14	.18	--	.00	--
09...	--	--	--	--	.03	.06	.10	.13	.02	.00	--
SEP.											
07...	--	--	--	--	.00	.02	.15	.15	.02	.01	--

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)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	METHY-LENE BLUE ACTIVE SUB-STANCE (MG/L)
NOV.											
04...	--	--	--	--	--	--	--	--	3.5	0	--
FEB.											
25...	--	--	--	--	--	--	--	--	6.0	2	.00
APR.											
06...	.05	294	22	0	10	.1	54	7.7	5.0	--	.00
JUNE											
08...	.06	135	29	0	8	.1	65	7.6	12.5	--	--
08...	--	--	--	--	--	--	--	--	13.0	--	--
09...	--	--	--	--	--	--	--	--	11.0	--	--
09...	--	--	--	--	--	--	--	--	12.0	--	--
SEP.											
07...	--	--	--	--	--	--	--	--	16.5	--	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11413000 NORTH YUBA RIVER BELOW GOODYEARS BAR, CALIF.--Continued

DATE	TIME	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)
NOV.												
04...	1115	184	--	--	--	140	8.3	3.5	11.8	99	6	0
FEB.												
25...	1330	1290	--	--	--	86	7.7	6.0	11.4	100	--	--
JUNE												
08...	1315	1060	38	0	31	64	7.9	12.5	9.7	100	--	--
08...	1630	1060	38	0	31	65	8.0	13.0	9.5	99	--	--
09...	0430	1100	38	0	31	63	7.8	11.0	9.6	95	--	--
09...	1220	1020	38	0	31	--	8.0	12.0	9.8	99	--	--
SEP.												
07...	1310	162	81	1	68	139	8.4	16.5	9.3	103	--	--

ANALYSES OF MINOR AND TRACE CONSTITUENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)
FEB.							
25...	7	--	--	--	0	--	0
APR.							
06...	3	10	--	--	0	--	2
SEP.							
07...	--	--	0	0	--	1	--

DATE	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
FEB.						
25...	--	2	--	.3	--	10
APR.						
06...	--	3	--	.5	--	20
SEP.						
07...	1	--	.2	--	30	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	DIS-SOLVED BORON (B) (UG/L)
11455125 RECLAMATION DISTRICT NO. 2068 DRAIN Z AT HACKMAN ROAD AND ROAD 105, NEAR CLARKSBURG, CALIF. (LAT 38°27'08", LONG 121°40'28")												
APR.												
17...	1045	E.50	2.0	.29	2.3	.86	3.2	.29	476	.65	904	630
JULY												
13...	0855	E4.0	2.8	.21	3.0	.94	3.9	.37	292	.40	418	280
SEP.												
06...	0740	E15	3.3	.05	3.3	1.7	5.0	.51	334	.45	541	350
11455135 RECLAMATION DISTRICT NO. 2068 DRAIN X AT MIDWAY ROAD, NEAR CLARKSBURG, CALIF. (LAT 38°24'57", LONG 121°40'15")												
APR.												
17...	1100	E.25	.68	.05	.73	.29	1.0	.44	304	.41	453	310
JULY												
13...	0910	E12	2.4	.32	2.7	1.9	4.6	.80	324	.44	475	270
SEP.												
06...	0850	E8.0	.13	.03	.16	2.3	2.5	1.3	256	.35	386	290
11455145 RECLAMATION DISTRICT NO. 2068W PUMP NO. 5 SPILL, NEAR COURTLAND, CALIF. (LAT 38°19'44", LONG 121°41'22")												
APR.												
17...	1120	E16	.28	.02	.30	.61	.91	1.1	302	.41	445	330
JULY												
13...	1120	E25	.85	.11	.96	.72	1.7	.81	236	.32	339	200
SEP.												
05...	0810	E25	.41	.07	.48	1.7	2.2	1.2	254	.35	393	220

E Estimated by Solano Irrigation District.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
SACRAMENTO RIVER BASIN--Continued												
11455235 ULATIS CREEK AT LEWIS ROAD, NEAR ELMIRA, CALIF. (LAT 38°22'25", LONG 121°53'44")												
APR. 17...	1330	E1.5	.00	.05	.03	.50	.53	.60	312	.42	428	220
JULY 13...	1055	E8.0	.93	.07	1.0	.70	1.7	.34	250	.34	371	190
SEP. 06...	0930	E10	.34	.04	.38	.41	.79	.07	192	.26	340	170
11455255 SWEENEY CREEK AT WEBER ROAD, NEAR DIXON, CALIF. (LAT 38°24'08", LONG 121°51'39")												
APR. 17...	1315	E30	.56	.04	.60	.11	.71	.18	216	.29	338	150
JULY 13...	1040	E55	1.4	.13	1.5	1.0	2.5	.19	242	.33	384	180
SEP. 06...	0915	E25	.54	.04	.58	.46	1.0	.14	246	.33	365	170
11455257 GIBSON CANYON CREEK AT SOUTHERN PACIFIC RAILROAD, NEAR ELMIRA, CALIF. (LAT 38°23'28", LONG 121°52'21")												
APR. 17...	1325	E2.0	.00	.05	.04	.36	.40	.37	232	.32	340	180
JULY 13...	1045	E20	.28	.11	.39	.95	1.3	.08	224	.30	339	200
SEP. 06...	0925	E5.0	.11	.05	.16	2.6	2.8	.36	294	.40	488	180
11455261 ULATIS CREEK AT BROWNS ROAD, NEAR ELMIRA, CALIF. (LAT 38°18'24", LONG 121°47'37")												
APR. 17...	1150	E6.0	.11	.01	.12	.43	.55	1.3	358	.49	580	290
JULY 13...	1025	E15	.13	.08	.21	1.7	1.9	.73	410	.56	594	320
SEP. 06...	0900	E15	.07	.04	.11	1.2	1.3	.98	404	.55	658	310
11455265 ALAMO CREEK AT BROWNS DAM, NEAR ELMIRA, CALIF. (LAT 38°19'44", LONG 121°51'32")												
APR. 17...	1340	E10	2.1	.13	2.2	.39	2.6	1.1	334	.45	495	260
JULY 13...	1105	E33	.58	.13	.71	1.2	1.9	.18	244	.33	383	200
SEP. 06...	0945	E25	.61	.05	.66	1.2	1.9	.75	234	.32	413	220
11455272 RECLAMATION DISTRICT NO. 2068 DRAIN V AT SWAN ROAD, NEAR DIXON, CALIF. (LAT 38°21'29", LONG 121°44'20")												
APR. 17...	1130	E12	.68	.05	.73	.64	1.4	.56	348	.47	574	350
JULY 13...	1010	E30	1.3	.18	1.5	2.1	3.6	.79	374	.51	553	330
SEP. 06...	0845	E15	1.2	.10	1.3	1.6	2.9	.51	338	.46	531	290
11455283 NOONAN DRAIN AT HAY ROAD, NEAR ELMIRA, CALIF. (LAT 38°18'57", LONG 121°53'02")												
APR. 17...	1350	E.75	.03	.05	.08	.09	.17	.10	212	.29	307	170
JULY 13...	1115	E4.0	.00	.10	.06	1.0	1.1	.65	310	.42	426	270
SEP. 06...	0955	E3.0	.29	.06	.35	.43	.78	.14	184	.25	328	160
11455580 ALONZO DRAIN AT CORDELIA ROAD, NEAR FAIRFIELD, CALIF. (LAT 38°13'50", LONG 122°03'56")												
APR. 17...	1455	E1.0	9.3	.17	9.5	.64	10	.13	712	.97	1010	960
JULY 14...	0950	E2.0	4.2	.58	4.8	.39	5.2	.04	860	1.17	1390	1800
SEP. 06...	1330	--	.16	.04	.20	1.1	1.3	.09	896	1.22	1430	1900

E Estimated by Solano Irrigation District.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11455600 RAINES DRAIN AT CHADBOURNE ROAD, NEAR FAIRFIELD, CALIF. (LAT 38°12'46", LONG 122°04'56")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	SPECIFIC CONDUCTANCE (MICROMHOS)	DISSOLVED BORON (B) (UG/L)
APR.												
17...	1510	E6.0	.41	.05	.46	.19	.65	.06	292	.40	387	310
JULY												
14...	0900	E2.0	.16	.01	.17	.48	.65	.05	476	.65	748	360
SEP.												
06...	1340	E5.0	.03	.04	.07	.36	.43	.04	356	.48	593	250

EEL RIVER BASIN

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CALIF. (LAT 39°23'19", LONG 123°06'54")

DATE	TIME	DISCHARGE (CFS)	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)
JAN., 1972											
10...	1345	--	1.9	.05	--	.00	.0	.05	.04	.05	.25
24...	1520	--	1270	.04	--	.00	.0	.04	.14	.18	.24
MAR.											
08...	1400	--	1190	.01	.00	.00	.0	.01	.16	.21	.06
MAY											
03...	0900	4.0	--	.08	.40	.00	.0	.08	.06	.08	.02
30...	1300	8.0	--	.00	.00	.00	.0	.00	.03	.04	.11

DATE	TOTAL KJELDAHL NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED ORTHO. PHOSPHORUS (P) (MG/L)	TEMPERATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ALDRIN (UG/L)	CHLORDANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)
JAN., 1972										
10...	.29	.05	.00	5.5	2.0	.00	.0	.00	.00	.00
24...	.38	.19	.01	6.5	2.5	.00	.0	.00	.00	.00
MAR.										
08...	.22	.04	.03	11.0	2.0	.00	.0	.00	.00	.00
MAY										
03...	.08	.04	.01	14.0	.0	.00	.0	.00	.00	.00
30...	.14	.03	.00	19.5	1.5	--	--	--	--	--

DATE	DIAZINON (UG/L)	DIELDRIN (UG/L)	ENDRIN (UG/L)	HEPTACHLOR (UG/L)	HEPTACHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALATHION (UG/L)	METHYL PARATHION (UG/L)	PARATHION (UG/L)	2,4-D (UG/L)
JAN., 1972										
10...	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
24...	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00
MAR.										
08...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAY										
03...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30...	--	--	--	--	--	--	--	--	--	--

DATE	2,4,5-T (UG/L)	SILVEX (UG/L)	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 ZINC (ZN) (UG/L)
JAN., 1972										
10...	.00	.00	1	1	0	3	2	5	.0	8
24...	.00	.00	0	0	0	0	3	1	.4	8
MAR.										
08...	.00	.00	3	1	0	0	3	3	.6	50
MAY										
03...	.00	.00	0	0	0	1	1	3	1.4	8
30...	--	--	0	0	0	0	8	0	.3	0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

MAD RIVER BASIN

11480390 MAD RIVER ABOVE RUTH RESERVOIR, NEAR FOREST GLEN, CALIF. (LAT 40°18'51", LONG 123°21'44")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)
OCT., 1971							
26...	1515	2.0	.01	.16	.21	.13	--
NOV.							
16...	0915	19	.36	.07	.09	.25	--
DEC.							
21...	1100	96	.10	.03	.04	.21	--
JAN., 1972							
21...	1200	1600	.05	.21	.27	.39	--
FEB.							
23...	1400	760	.03	.05	.06	.55	--
MAR.							
30...	1200	330	.13	.01	.01	.21	--
APR.							
10...	1605	300	.06	.04	.05	.07	--
MAY							
31...	1050	31	.00	.03	.04	.01	--
JUNE							
21...	1255	15	.04	.70	.90	.08	.00
JULY							
21...	1330	3.6	.08	.03	.04	.11	.07
SEP.							
01...	1100	3.5	.05	.04	.05	--	.08

DATE	TOTAL KJELDAHL 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., 1971							
26...	.29	--	.30	.04	.01	14.0	2.0
NOV.							
16...	.32	--	.68	.06	.05	9.5	2.0
DEC.							
21...	.24	--	.34	.06	.01	3.5	1.0
JAN., 1972							
21...	.60	--	.65	.25	.01	6.0	2.5
FEB.							
23...	.60	--	.63	.08	.02	3.5	1.0
MAR.							
30...	.22	--	.35	.03	.02	8.0	.0
APR.							
10...	.11	--	.17	.04	.02	10.5	1.0
MAY							
31...	.04	--	.04	.04	.00	15.5	.5
JUNE							
21...	.78	.35	.82	.03	.01	18.0	1.0
JULY							
21...	.14	.10	.22	.12	.02	22.5	1.0
SEP.							
01...	--	.12	--	.04	.01	--	.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

MAD RIVER BASIN--Continued

11480410 MAD RIVER BELOW RUTH RESERVOIR, NEAR FOREST GLEN, CALIF. (LAT 40°21'30", LONG 123°25'27")

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DISSOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	DISSOLVED ORGANIC NITROGEN (N) (MG/L)
OCT., 1971								
27...	0920	105	--	.04	.03	.04	.32	--
NOV.								
15...	1600	100	--	--	--	--	--	--
16...	1115	95	20	.00	.06	.08	.29	--
DEC.								
21...	1300	108	--	.02	.04	.05	.22	--
JAN., 1972								
21...	1355	86	--	.07	.07	.09	.25	--
FEB.								
24...	0845	1200	--	.04	.10	.13	.38	--
MAR.								
30...	1340	350	--	.12	.07	.09	.08	--
APR.								
11...	0945	350	0	.01	.07	.09	.06	--
11...	1000	310	--	--	--	--	--	--
MAY								
31...	1130	75	--	.11	.00	.00	.00	--
JUNE								
21...	1400	86	--	.55	.06	.08	.23	.18
JULY								
21...	1130	60	--	.03	.04	.05	.13	.08

DATE	TOTAL KJELDAHL 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)	IMMEDIATE COLIFORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT., 1971								
27...	.35	--	.39	.04	.01	13.0	--	1.0
NOV.								
15...	--	--	--	--	--	--	2700	--
16...	.35	--	.35	.08	.05	10.0	--	2.0
DEC.								
21...	.26	--	.28	.06	.01	5.5	--	1.0
JAN., 1972								
21...	.32	--	.39	.11	.00	5.5	--	.5
FEB.								
24...	.48	--	.52	.08	.01	5.5	--	.5
MAR.								
30...	.15	--	.27	.07	.02	10.0	--	.0
APR.								
11...	.13	--	.14	.13	.01	8.0	--	3.0
11...	--	--	--	--	--	8.0	320	--
MAY								
31...	.00	--	.12	.04	.00	14.0	--	.0
JUNE								
21...	.29	.24	.84	.07	.02	15.0	--	3.5
JULY								
21...	.17	.12	.20	.08	.00	12.0	--	2.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

MAD RIVER BASIN--Continued

11480410 MAD RIVER BELOW RUTH RESERVOIR, NEAR FOREST GLEN, CALIF.--Continued

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)
DEC., 1971										
02...	1400	.00	<.2	.0	<1	.00	<.2	.01	<.2	.00
APR., 1972										
11...	1050	.00	--	.0	--	.00	--	.00	--	.00

DATE	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)
DEC., 1971										
02...	<.2	.00	<.2	.00	<.2	.00	<.2	.00	<.2	.00
APR., 1972										
11...	--	.00	--	.00	--	.00	--	.00	--	.00

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION IN BOTTOM DEPOSITS (UG/KG)	METHYL PARATHION IN BOTTOM DEPOSITS (UG/KG)	PARATHION IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
DEC., 1971										
02...	<.2	<.2	<.2	<.2	.00	<.7	.00	<.2	.00	<.2
APR., 1972										
11...	--	--	--	--	.00	--	.00	--	.00	--

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)	DISSOLVED ZINC (ZN) (UG/L)
NOV., 1971										
16...	1115	0	0	0	1	9	0	3.4	3.4	30
APR., 1972										
11...	0945	10	1	0	3	4	4	1.4	1.2	10

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

MAD RIVER BASIN

HUMBOLDT NURSERY RESERVOIR AT MCKINLEYVILLE, CALIF. (LAT 41°00'03", LONG 124°05'05",01)

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)
NOV., 1971											
17...	1315	18	2	3.7	3.6	8.1	.5	26	0	4.0	9.2

DATE	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (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)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
NOV., 1971											
17...	.0	1.8	68	.09	24	3	42	.7	8.0	17	20

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)
NOV., 1971					
17...	1315	21	91	6.4	8.0

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

HUMBOLDT NURSERY AT MCKINLEYVILLE, CALIF. (LAT 41°00'03", LONG 124°05'05",02)

DATE	TIME	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)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)
FEB., 1972							
20...	0800	.26	1.2	.02	.0	.28	.24
22...	0730	.09	.40	.02	.0	.11	.24
23...	0830	.17	.80	.00	.0	.17	.23
JUNE							
09...	0[illegible]	.83	3.7	.00	.0	.83	.58

DATE	DIS-SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
FEB., 1972						
20...	.31	3.0	3.2	3.5	2.7	51
22...	.31	3.9	4.1	4.2	1.1	77
23...	.30	2.5	2.7	2.9	.82	50
JUNE						
09...	.75	2.7	3.3	4.1	1.1	41

PESTICIDE ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

MAD RIVER BASIN--Continued
HUMBOLDT NURSERY AT MCKINLEYVILLE, CALIF.--Continued

DATE	TIME	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
FEB., 1972											
22...	0730	.00	--	.2	--	.00	--	.00	--	.01	--
23...	0830	.00	--	.1	--	.00	--	.00	--	.02	--
23...	0920	.00	--	.1	--	.00	--	.00	--	.02	--
JUNE											
09...	0900	.00	--	.0	--	.00	--	.00	--	.00	--
09...	0930	.00	--	.0	--	.00	--	.00	--	.00	--
15...	--	--	<.2	--	74	--	<.2	--	<.2	--	14

DATE	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)
FEB., 1972										
22...	.01	.07	--	.00	--	.00	--	.00	--	.02
23...	.01	.08	--	.00	--	.00	--	.00	--	.02
23...	.01	.08	--	.00	--	.00	--	.00	--	.02
JUNE										
09...	.00	.06	--	.00	--	.00	--	.00	--	.00
09...	.00	.06	--	.00	--	.00	--	.00	--	.00
15...	--	--	30	--	<.2	--	<.2	--	<.2	--

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)
FEB., 1972										
22...	--	.00	.00	.00	.00	--	.02	--	.00	--
23...	--	.00	.00	.00	.00	--	.00	--	.00	--
23...	--	.00	.00	.00	.00	--	.00	--	.00	--
JUNE										
09...	--	.00	.00	.00	.00	--	.00	--	.00	--
09...	--	.00	.00	.00	.00	--	.00	--	.00	--
15...	<.2	--	--	--	--	<1.7	--	<.5	--	<.6

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

KLAMATH RIVER BASIN

11519500 SCOTT RIVER NEAR FORT JONES, CALIF. (LAT 41°38'28", LONG 123°00'54")1/

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 NITRATE (N) (MG/L)
NOV.												
16...	1600	187	--	--	4.0	--	144	0	118	--	3.1	--
JAN.												
04...	1530	217	--	--	--	--	--	--	--	--	--	--
MAR.												
06...	1515	3520	--	--	2.7	--	81	0	66	--	.4	--
MAY												
17...	1100	1350	--	--	1.9	--	66	0	54	--	1.7	--
JUNE												
16...	1000	686	14	9.7	2.8	1.0	90	0	74	1.3	1.6	.16
JULY												
19...	0935	101	--	--	5.0	--	156	0	128	--	4.7	--
SEP.												
08...	1110	69	--	--	--	--	--	--	--	--	--	--

DATE	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)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED BORON (B) (UG/L)
NOV.												
16...	--	--	--	124	6	--	.2	--	8.0	8.5	--	100
JAN.												
04...	--	--	--	--	--	--	--	--	--	3.5	2	--
MAR.												
06...	--	--	--	70	4	--	.1	--	7.5	8.0	50	0
MAY												
17...	--	--	--	56	2	--	.1	--	7.8	10.5	3	0
JUNE												
16...	90	.12	167	75	1	7	.1	--	7.8	16.0	2	0
JULY												
19...	--	--	--	132	4	--	.2	274	7.6	16.5	0	0
SEP.												
08...	--	--	--	--	--	--	--	--	--	17.0	0	--

FIELD DETERMINATIONS OF WATER QUALITY, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
NOV.						
16...	1600	187	228	7.5	8.5	12.0
JAN.						
04...	1530	217	205	7.3	3.5	13.1
MAR.						
06...	1515	3520	142	7.4	8.0	10.5
MAY						
17...	1100	1350	114	7.3	10.5	9.9
JUNE						
16...	1000	686	168	7.5	16.0	9.4
JULY						
19...	0935	101	--	7.6	16.5	10.3
SEP.						
08...	1110	69	289	7.8	17.0	10.6

1/ Records furnished by California Department of Water Resources.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN

11386500 GRINDSTONE CREEK NEAR ELK CREEK, CALIF. (LAT 39°40'38", LONG 122°31'51")

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	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.										
14...	--	17.5	4.0	455	5	.05	--	--	--	--
NOV.										
02...	1345	16.0	2.7	--	1	.01	--	--	--	--
DEC.										
06...	1700	7.0	224	220	146	88	--	--	--	--
JAN.										
10...	1230	4.5	42	270	2	.23	--	--	--	--
FEB.										
07...	1245	7.0	143	210	26	10	--	--	--	--
MAR.										
02...	0945	7.5	748	--	1440	2910	19	30	39	50
APR.										
04...	0830	11.5	132	160	11	3.9	--	--	--	--
MAY										
03...	1230	18.5	97	180	3	.79	--	--	--	--
JUNE										
06...	1200	25.5	33	210	2	.18	--	--	--	--
JULY										
05...	1100	25.0	7.3	--	2	.04	--	--	--	--
AUG.										
02...	1400	30.0	2.0	290	1	.01	--	--	--	--
SEP.										
06...	1115	22.0	1.2	380	1	.00	--	--	--	--

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. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
OCT.										
14...	--	--	--	--	--	--	--	--	--	--
NOV.										
02...	--	--	--	--	--	--	--	--	--	--
DEC.										
06...	--	--	98	--	99	--	100	--	--	--
JAN.										
10...	--	--	--	--	--	--	--	--	--	--
FEB.										
07...	--	--	--	--	--	--	--	--	--	--
MAR.										
02...	62	70	--	77	--	84	--	94	99	100
APR.										
04...	--	--	--	--	--	--	--	--	--	--
MAY										
03...	--	--	--	--	--	--	--	--	--	--
JUNE										
06...	--	--	--	--	--	--	--	--	--	--
JULY										
05...	--	--	--	--	--	--	--	--	--	--
AUG.										
02...	--	--	--	--	--	--	--	--	--	--
SEP.										
06...	--	--	--	--	--	--	--	--	--	--

SUSPENDED SEDIMENT DISCHARGE MEASUREMENTS, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

SACRAMENTO RIVER BASIN--Continued

11392100 MIDDLE FORK FEATHER RIVER NEAR PORTOLA, CALIF. (LAT 39°49'13", LONG 120°26'26")

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
26...	1540	6.5	48	9	1.2
JAN.					
04...	1340	.0	99	3	.80

11392200 MIDDLE FORK FEATHER RIVER AT DELLEKER, CALIF. (LAT 39°48'07", LONG 120°29'42")

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
27...	0925	4.5	46	6	.75
JAN.					
04...	1400	.0	78	3	.63

11393300 MIDDLE FORK FEATHER RIVER BELOW LONG VALLEY CREEK, AT SLOAT, CALIF. (LAT 39°51'58", LONG 120°44'00")

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
27...	1353	--	127	3	1.0
JAN.					
05...	1010	.0	167	7	3.2

11413000 NORTH YUBA RIVER BELOW GOODYEARS BAR, CALIF. (LAT 39°31'30", LONG 120°56'13")

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
SEP., 1971					
23...	1600	14.5	181	2	.98
NOV.					
04...	1100	3.5	181	2	.98
JAN., 1972					
05...	1230	.5	252	10	6.8
FEB.					
01...	1430	1.5	351	1	.95
25...	1320	6.0	1300	4	14
APR.					
06...	1125	6.0	2800	25	189
MAY					
03...	1500	9.5	1490	4	16
30...	1215	9.5	1560	5	21

11413100 NORTH YUBA RIVER ABOVE SLATE CREEK, NEAR STRAWBERRY VALLEY, CALIF. (LAT 39°31'29", LONG 121°05'26")

DATE	TIME	TEMPERATURE (DEG C)	INSTANTANEOUS DISCHARGE (CFS)	SUSPENDED SEDIMENT (MG/L)	SUSPENDED SEDIMENT DISCHARGE (T/DAY)
OCT.					
02...	1430	8.0	262	2	1.4
NOV.					
02...	1120	4.0	228	2	1.2
DEC.					
01...	1215	4.5	342	3	2.8
JAN.					
05...	1500	1.0	346	1	.93
FEB.					
01...	1525	1.5	560	4	6.0
MAR.					
06...	1630	6.5	2830	8	61
APR.					
03...	1455	9.0	1400	2	7.6
MAY					
03...	1320	8.0	2120	11	63
JUNE					
01...	1315	11.0	1840	8	40

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
SAN RAFAEL CREEK BASIN										
11459800 SAN RAFAEL CREEK AT SAN RAFAEL, CALIF. (LAT 37°58'22", LONG 122°32'07")										
NOV., 1971										
30...	1415	12.0	.36	1	.00	--	--	--	--	--
DEC.										
27...	1430	--	1.8	6	.03	--	--	--	--	--
JAN., 1972										
10...	1430	7.0	.45	1	.00	--	--	--	--	--
25...	0945	9.0	3.7	82	.82	--	--	--	--	--
25...	1145	--	.40	50	.05	--	--	--	--	--
FEB.										
03...	1215	9.0	.80	13	.03	--	--	--	--	--
05...	0340	7.5	43	172	20	--	--	--	--	--
05...	0410	7.5	45	170	21	--	--	--	--	--
APR.										
20...	1415	15.0	.35	3	.00	--	--	--	--	--
11459830 IRWIN CREEK AT SAN RAFAEL, CALIF. (LAT 37°58'56", LONG 122°30'50")										
DEC., 1971										
27...	1045	--	.15	9	.00	--	--	--	--	--
JAN., 1972										
25...	0950	8.0	.09	33	.01	--	--	--	--	--
25...	1040	8.0	.03	26	.00	--	--	--	--	--
FEB.										
05...	0600	8.5	2.1	40	.23	--	--	--	--	--
WALKER CREEK BASIN										
11460800 WALKER CREEK NEAR TOMALES, CALIF. (LAT 38°12'35", LONG 122°51'35")										
DEC., 1971										
06...	1050	9.0	1.1	3	.01	--	--	--	--	--
JAN., 1972										
05...	1550	5.5	13	8	.28	--	--	--	--	--
25...	0940	7.5	51	81	11	--	--	--	--	--
25...	1040	7.5	109	275	81	34	46	58	74	86
25...	1200	8.0	116	567	178	--	--	--	--	--
25...	1400	8.5	139	954	358	48	65	76	83	84
25...	1500	9.0	96	475	123	--	--	--	--	--
25...	1700	9.0	147	305	121	--	--	--	--	--
FEB.										
02...	1630	7.0	28	10	.76	--	--	--	--	--
MAR.										
07...	0945	11.5	14	4	.15	--	--	--	--	--
APR.										
05...	0910	14.0	5.2	3	.04	--	--	--	--	--
MAY										
02...	1230	15.5	1.1	1	.00	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
11459830 IRWIN CREEK AT SAN RAFAEL, CALIF.--Continued								
NOV., 1971								
30...	1100	--	4	.00	1	2	3	7
APR., 1972								
20...	1205	--	3	.00	1	2	4	7
11460800 WALKER CREEK NEAR TOMALES, CALIF.--Continued								
OCT., 1971								
12...	1155	--	1	.00	16	48	91	98
12...	1200	--	1	.00	--	1	2	8
12...	1205	--	1	.00	--	--	1	5
12...	1210	--	1	.00	2	10	42	56
MAY , 1972								
02...	1210	15.5	1	1.1	--	--	1	5
02...	1215	15.5	1	1.1	7	30	89	100
02...	1220	15.5	1	1.1	--	1	3	9

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
				SAN RAFAEL CREEK BASIN--Continued					
				11459800 SAN RAFAEL CREEK AT SAN RAFAEL, CALIF.--Continued					
NOV., 1971									
30...	--	--	--	--	--	--	--	--	--
DEC.									
27...	--	--	--	--	--	--	--	--	--
JAN., 1972									
10...	--	--	--	--	--	--	--	--	--
25...	--	98	--	99	--	100	--	--	--
25...	--	--	--	--	--	--	--	--	--
FEB.									
03...	--	--	--	--	--	--	--	--	--
05...	--	94	--	95	--	98	--	99	100
05...	--	--	--	--	--	--	--	--	--
APR.									
20...	--	--	--	--	--	--	--	--	--
				11459830 IRWIN CREEK AT SAN RAFAEL, CALIF.--Continued					
DEC., 1971									
27...	--	--	--	--	--	--	--	--	--
JAN., 1972									
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
FEB.									
05...	--	--	--	--	--	--	--	--	--
				WALKER CREEK BASIN--Continued					
				11460800 WALKER CREEK NEAR TOMALES, CALIF.--Continued					
DEC., 1971									
06...	--	--	--	--	--	--	--	--	--
JAN., 1972									
05...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	95	--	96	--	99	--	100	--
25...	--	--	--	--	--	--	--	--	--
25...	91	--	92	--	96	--	100	--	--
25...	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--
FEB.									
02...	--	--	--	--	--	--	--	--	--
MAR.									
07...	--	--	--	--	--	--	--	--	--
APR.									
05...	--	--	--	--	--	--	--	--	--
MAY									
02...	--	--	--	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

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
			11459830 IRWIN CREEK AT SAN RAFAEL, CALIF.--Continued				
NOV., 1971							
30...	10	14	20	31	50	74	100
APR., 1972							
20...	11	16	28	45	70	100	--
			11460800 WALKER CREEK NEAR TOMALES, CALIF.--Continued				
OCT., 1971							
12...	100	--	--	--	--	--	--
12...	12	16	20	30	51	73	100
12...	11	22	31	42	54	83	100
12...	57	60	64	71	84	100	--
MAY , 1972							
02...	9	13	16	24	40	55	100
02...	--	--	--	--	--	--	--
02...	19	27	41	57	77	100	--

STATION NUMBER	LATITUDE	LONGITUDE	SEQ. NO.	LOCAL IDENTIFIER	GEOLOGIC UNIT 1/	DATE OF SAMPLE	TIME	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)
				DRY CREEK Mendocino County					
383348122505101	38 33 48	122 50 51	01	8N/9W-3P2	111ALVL	71-05-13	0710	19	180
					111ALVL	71-09-10	1045	20	100
					111ALVL	72-03-29	0935	18	60
					111ALVL	72-09-26	0950	20	110
383536122520401	38 35 36	122 52 04	01	9N/9W-28N2	111ALVL	71-05-13	0750	28	50
					111ALVL	71-09-10	1115	27	20
					111ALVL	72-03-29	0905	26	10
					111ALVL	72-09-26	1020	26	100
383655122530701	38 36 55	122 53 07	01	9N/9W-20E2	111ALVL	71-05-13	0815	19	40
					111ALVL	71-09-10	1140	20	20
					111ALVL	72-03-29	0820	17	10
					111ALVL	72-09-26	1040	20	30
383954122554801	38 39 54	122 55 48	01	10N/10W-35Q2	111ALVL	71-05-13	0900	25	70
					111ALVL	71-09-10	1225	24	40
					111ALVL	72-03-29	0740	29	30
					111ALVL	72-09-26	1140	24	50
384218122574701	38 42 18	122 57 47	01	10N/10W-22D1	111ALVL	71-05-13	0935	29	30
					111ALVL	71-09-10	1255	29	10
					111ALVL	72-03-29	0655	34	10
					111ALVL	72-09-26	1205	28	30

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)
71-05-13	26	19	10	1.5	157	--	129	21	7.1	.3	.10	170
71-09-10	22	14	8.8	1.5	152	0	125	9.0	4.2	.6	.01	156
72-03-29	24	17	15	8.4	175	0	144	17	12	.2	.35	216
72-09-26	22	14	9.5	1.4	149	0	122	10	5.7	.1	.01	176
71-05-13	23	30	14	.6	209	--	171	20	8.1	.4	1.0	220
71-09-10	23	27	13	.7	219	0	180	18	8.4	.2	.95	240
72-03-29	25	28	13	.7	208	0	171	19	7.7	.1	.87	226
72-09-26	23	28	13	.7	211	0	173	20	8.0	.2	.72	206
71-05-13	20	17	10	.6	136	--	112	22	5.1	.4	.40	150
71-09-10	21	15	10	.7	158	0	130	19	5.0	.1	.46	158
72-03-29	19	14	8.6	.8	118	0	97	18	6.4	.0	.30	186
72-09-26	21	15	11	.8	136	0	112	19	5.1	.2	.19	188
71-05-13	8.3	5.4	6.5	.1	31	--	25	26	5.3	.3	1.6	120
71-09-10	8.0	4.7	7.0	.4	47	0	39	11	5.1	.5	1.6	94
72-03-29	8.5	4.8	6.1	.3	41	0	34	14	4.7	.1	1.9	97
72-09-26	9.3	5.1	7.8	.4	41	0	34	12	5.6	.1	1.5	108
71-05-13	13	12	10	.1	76	--	62	18	7.9	.3	2.5	140
71-09-10	12	11	10	.4	98	0	80	18	5.4	.6	.97	130
72-03-29	14	11	9.5	.3	80	0	66	19	6.7	.1	2.0	170
72-09-26	13	12	11	.3	92	0	75	20	5.9	.2	.46	152

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)
71-05-13	182	.23	140	14	13	.4	299	7.2	15.0	16	170
71-09-10	155	.21	110	0	14	.4	264	7.0	22.0	24	330
72-03-29	200	.29	130	0	19	.6	341	6.8	13.0	44	240
72-09-26	157	.24	110	0	15	.4	259	6.8	20.0	38	500
71-05-13	231	.30	180	10	14	.5	381	7.1	15.0	27	10
71-09-10	230	.33	170	0	14	.4	376	7.1	18.0	28	350
72-03-29	226	.31	180	7	14	.4	372	7.0	14.0	33	170
72-09-26	226	.28	170	0	14	.4	377	6.7	17.0	67	160
71-05-13	163	.20	120	8	15	.4	269	7.0	14.5	22	130
71-09-10	171	.21	110	0	16	.4	267	7.2	18.5	16	440
72-03-29	143	.25	110	8	15	.4	233	7.0	11.5	19	220
72-09-26	160	.26	110	3	17	.4	262	6.6	18.0	55	240
71-05-13	99	.16	43	18	25	.4	121	7.3	14.0	2.5	0
71-09-10	91	.13	39	1	28	.5	121	5.8	18.0	119	50
72-03-29	96	.13	41	7	24	.4	124	6.0	10.0	66	20
72-09-26	91	.15	44	11	28	.5	123	6.3	16.0	33	10
71-05-13	139	.19	82	20	21	.5	215	6.8	16.5	19	0
71-09-10	139	.18	75	0	22	.5	198	6.3	17.5	79	50
72-03-29	143	.23	80	15	20	.5	202	6.4	14.0	51	50
72-09-26	138	.21	82	6	23	.5	205	6.4	17.0	59	110

STATION NUMBER	LAT-I-TUDE	LONG-I-TUDE	SEQ. NO.	LOCAL IDENT-I-FIER	GEO-LOGIC UNIT 1/	DATE OF SAMPLE	TIME	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)
				MAD RIVER Humboldt County					
405118123592601	40 51 18	123 59 26	01	6N/2E-31R1	111ALVL	70-10-15	1000	11	0
					111ALVL	71-06-21	1345	11	90
					111ALVL	71-11-22	0925	11	20
					111ALVL	72-04-14	1025	10	180
405200123580601	40 52 00	123 58 06	01	6N/2E-32A1	111ALVL	70-10-15	1500	8.0	--
					111ALVL	71-06-21	1450	7.9	60
					111ALVL	71-11-22	0615	7.6	40
405221124000601	40 52 21	124 00 06	01	6N/2E-30M1	111ALVL	70-10-15	1200	9.5	--
					111ALVL	71-06-21	1315	10	760
					111ALVL	71-11-22	0845	12	2400
					111ALVL	72-04-14	0955	6.5	240
					111ALVL	72-04-14	1115	8.7	3400
405246124003801	40 52 46	124 00 38	01	6N/1E-25B1	111ALVL	70-10-15	1700	23	0
					111ALVL	71-06-21	1245	17	480
					111ALVL	71-11-22	0810	19	70
					111ALVL	72-04-14	1130	12	220
405357124005701	40 53 57	124 00 57	01	6N/1E/13P1	111ALVL	70-10-16	1000	27	0
					111ALVL	71-06-21	1515	29	250
					111ALVL	71-11-22	1020	30	160
					111ALVL	72-04-14	1215	29	310
405420124053501	40 54 20	124 05 35	01	6N/1E-17F2	111ALVL	72-04-14	1325	32	8400
405426124043301	40 54 26	124 04 33	01	6N/1E/16E3	111ALVL	72-04-14	1245	15	410
405453124060101	40 54 53	124 06 01	01	6N/1E-7P1	111ALVL	72-04-14	1310	19	450

DATE OF SAMPLE	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)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS-SOLVED SOLIDS (REST-DUE AT 180 C) (MG/L)
70-10-15	26	6.1	6.9	1.0	110	0	90	9.0	3.0	.0	--	111
71-06-21	24	5.2	8.3	1.7	108	0	89	11	4.2	.2	.08	136
71-11-22	27	5.5	6.6	1.1	109	0	89	.0	4.0	.2	.17	132
72-04-14	23	5.0	6.7	1.7	96	0	79	9.7	4.9	.2	.35	140
70-10-15	29	5.7	7.0	1.5	108	0	89	9.0	8.0	.0	--	127
71-06-21	14	2.6	5.8	1.7	67	0	55	6.0	4.5	.2	.05	90
71-11-22	14	2.8	4.8	1.1	56	0	46	8.0	4.9	.1	.04	82
70-10-15	35	6.8	5.3	.9	138	0	113	9.0	3.0	.0	--	142
71-06-21	36	6.7	5.5	1.7	150	0	123	13	3.2	.1	.26	158
71-11-22	36	7.0	5.4	1.1	147	0	121	11	3.0	.1	.07	154
72-04-14	13	2.7	4.1	1.3	55	0	45	5.6	2.8	.1	.02	80
72-04-14	26	6.1	5.1	3.4	106	0	87	12	4.0	.2	.07	154
70-10-15	18	15	13	.7	109	0	89	6.0	28	.0	--	161
71-06-21	18	11	12	14	82	0	67	15	22	.2	8.5	202
71-11-22	23	14	14	16	89	0	73	13	28	.1	12	230
72-04-14	13	9.5	9.8	1.6	62	0	51	8.6	21	.1	4.0	144
70-10-16	5.1	4.8	11	.7	52	0	43	2.0	9.3	.1	--	72
71-06-21	7.5	4.7	12	2.3	58	0	48	1.5	11	.2	.94	102
71-11-22	6.6	4.9	11	1.2	55	0	45	3.0	11	.1	.94	98
72-04-14	6.4	4.9	11	1.1	51	0	42	1.8	11	.1	.85	108
72-04-14	55	21	8.2	1.3	257	0	211	26	8.0	.2	.02	290
72-04-14	57	12	7.6	1.8	230	0	189	6.3	11	.1	.03	242
72-04-14	41	27	11	1.6	265	0	217	4.9	7.9	.2	.02	242

MAD RIVER--Continued
Humboldt County--Continued

DATE OF SAMPLE	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)	PH (UNITS)	TEMPER-ATURE (DEG C)	CARBON DIOXIDE (CO2) (MG/L)	DIS-SOLVED BORON (B) (UG/L)
70-10-15	117	--	90	0	14	.3	205	7.1	15.0	14	90
71-06-21	119	.19	81	0	18	.4	200	7.8	13.5	2.7	100
71-11-22	110	.18	90	1	14	.3	206	7.2	13.0	11	50
72-04-14	110	.19	78	0	15	.3	184	7.2	13.0	9.7	70
70-10-15	121	--	96	7	13	.3	219	6.7	19.0	34	60
71-06-21	76	.12	46	0	21	.4	124	7.7	16.5	2.1	370
71-11-22	71	.11	46	1	18	.3	118	6.7	11.5	18	20
70-10-15	138	--	116	3	9	.2	244	7.1	--	18	40
71-06-21	152	.21	120	0	9	.2	250	7.7	16.0	4.8	110
71-11-22	151	.21	120	0	9	.2	252	7.0	13.0	24	80
72-04-14	64	.11	44	0	16	.3	107	6.8	10.0	14	20
72-04-14	121	.21	90	3	11	.2	197	6.7	12.0	34	60
70-10-15	157	--	104	15	21	.5	276	6.5	--	55	40
71-06-21	188	.27	90	23	19	.6	290	7.6	15.0	3.3	70
71-11-22	224	.31	120	42	18	.6	344	6.0	13.0	142	50
72-04-14	124	.20	72	21	22	.5	222	6.5	11.0	31	40
70-10-16	86	--	32	0	42	.8	121	6.3	14.5	42	5
71-06-21	101	.14	38	0	39	.8	128	7.7	15.5	1.9	80
71-11-22	99	.13	37	0	39	.8	127	6.6	14.0	22	30
72-04-14	95	.15	36	0	39	.8	124	5.8	12.0	129	60
72-04-14	287	.39	220	13	7	.2	455	6.7	14.0	82	120
72-04-14	225	.33	190	3	8	.2	392	7.2	--	23	70
72-04-14	244	.33	210	0	10	.3	422	6.9	14.5	53	80

1/ Cenozoic, Quaternary, Holocene, Alluvial deposits.

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