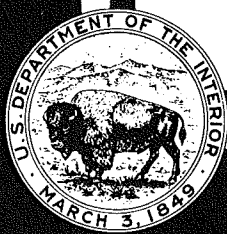


# **Water Resources Data for California**

## **Water Year 1975**

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



**U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-75-2**

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

# CALENDAR FOR WATER YEAR 1975

1974

## OCTOBER

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
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## NOVEMBER

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## DECEMBER

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1975

## JANUARY

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## JUNE

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## JULY

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## AUGUST

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31						

## SEPTEMBER

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28	29	30				

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# **Water Resources Data for California Water Year 1975**

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



**U.S. GEOLOGICAL SURVEY WATER-DATA REPORT CA-75-2**

**Prepared in cooperation with the California Department  
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## PREFACE

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

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

Data for California are in four volumes as follows:

- Volume 1. Colorado River Basin, Southern Great Basin from Mexican Border to Mono Lake Basin, and Pacific Slope Basins from Tijuana River to Santa Maria River
- Volume 2. Pacific Slope Basins from Arroyo Grande to Oregon State Line except Central Valley
- Volume 3. Southern Central Valley Basins and The Great Basin from Walker River to Truckee River
- Volume 4. Northern Central Valley Basins and The Great Basin from Honey Lake Basin to Oregon State Line

UNITED STATES DEPARTMENT OF THE INTERIOR

THOMAS S. KLEPPE, Secretary

GEOLOGICAL SURVEY

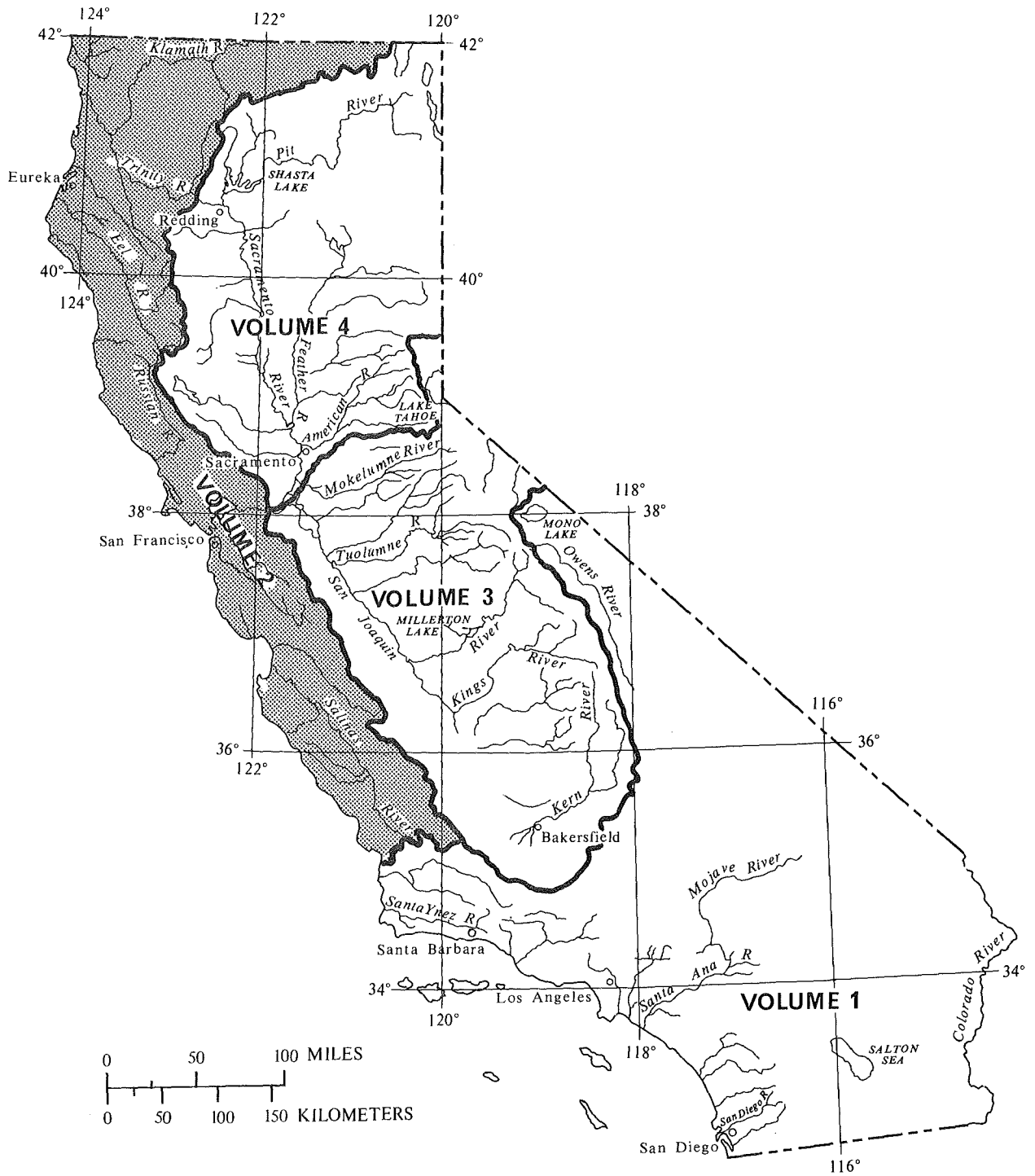
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Area covered by volumes in the annual series on water-resources data for California. Area covered by this volume is shaded.



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

IX

[Letters after station name designate type of data:  
(d), discharge; (l), lake contents; (c), chemical; (b), biological;  
(t), water temperature; and (s), sediment]

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# WATER RESOURCES DATA FOR CALIFORNIA, 1975

## Volume 2

---

### INTRODUCTION

Water-resources data for the 1975 water year for California consist of records of streamflow and contents of reservoirs at gaging stations, partial-record stations, and miscellaneous sites; records of water quality including the physical, chemical, and biological characteristics of surface and ground water; and records of water levels in selected observation wells. Records for a few pertinent streamflow and water-quality stations in bordering States are also included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of Lee R. Peterson, district chief; Winchell Smith, assistant district chief for hydrologic data; and Leonard N. Jorgensen, chief of the basic data section. These data represent that part of the National Water Data System collected by the Geological Survey and cooperating local, State, and Federal agencies in California.

Records of discharge (or stage) of streams, and contents (or stage) of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through water year 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States."

Beginning with the 1961 water year and continued through water year 1974, streamflow data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year, and ground-water data since the 1971 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports provided rapid release of preliminary water data shortly after the end of the water year. The final data were then released in the water-supply paper series mentioned above. Beginning with the 1975 water year, water data will be released on a State-boundary basis in final form and will not be republished in the water-supply paper series. The 1975 and subsequent water year reports will be in a series which will carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report CA-75-2." These reports are for sale to the public for a nominal fee from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia, 22161. For more information on publications available, see "Publications" on subsequent pages.

## COOPERATION

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

California Department of Water Resources, R. B. Robie, director.  
Alameda County Flood Control and Water Conservation District,  
P. E. Lanferman, engineer-manager.  
Alameda County Water District, M. P. Whitfield, general manager-chief engineer.  
Contra Costa County Flood Control and Water Conservation District, J. E. Taylor, chief engineer.  
Monterey County Flood Control and Water Conservation District, Loran Bunte, Jr., district engineer.  
Napa County Flood Control and Water Conservation District, Gene Norris, chairman.  
San Benito County Water Conservation and Flood Control District, R. G. Towle, secretary.  
San Francisco, City and County Water Department, K. R. Boyd, acting general manager and chief engineer.  
San Luis Obispo County Engineering Department, G. C. Protopapas, county engineer.  
San Mateo County Flood Control District, V. K. Sanders, manager.  
San Rafael, City of, Department of Public Works, Ely Caillouette, Jr., director.  
Santa Clara Valley Water District, J. T. O'Halloran, general manager.  
Santa Cruz County Flood Control and Water Conservation District, D. A. Porath, district engineer.

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

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

## DIVISION OF WORK

Responsibility for collection of data and preparation of data reports is delegated to the three subdistrict offices in the California District of the Water Resources Division. This volume was prepared by personnel of the Menlo Park subdistrict office under the direction of L. E. Young, subdistrict chief. Special acknowledgment is made of the contribution of J. T. Limerinos who directs the work in the hydrologic data section and also supervises the Menlo Park field unit. Report data were provided by the Menlo Park field unit and by the Santa Rosa, Eureka, and Salinas field offices which are supervised by E. J. LaCornu, G. W. LaRue, and Vincent Piro. Records for the streamflow stations required under Federal Power Commission licenses were processed under the supervision of J. H. Robles. Lucile Coleman supervised computer processing and assisted in review of data for publication. Manuscript typing and assembly of the report was done by the records processing unit under the supervision of A. L. Davis.

## DEFINITION OF TERMS

Terms related to streamflow, water-quality, ground-water, and other hydrologic data, as used in this report, are defined below. See also table 5 for converting English units to International System of units (SI).

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

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

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

Artesian is synonymous with confined. Artesian water and artesian water body are equivalent respectively to confined ground water and confined water body.

Artesian well is a well deriving its water from an artesian or confined water body. The water level in an artesian well stands above the top of the artesian water body it taps.

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

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

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

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

Benthic organisms (invertebrates) are the group of animals inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish.

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

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

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

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

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

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

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

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.

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

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

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

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

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

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

Instantaneous discharge is the discharge at a given time.

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

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

$$\bar{d} = \sum_{i=1}^s \frac{n_i}{n} \log_2 \frac{n_i}{n} \text{ where } n_i \text{ is the number of individuals per taxon, } n \text{ is}$$

the total number of individuals, and  $s$  is the total number of taxa. Diversity index values range from 0 when all the organisms in the samples are the same to some positive number when some or all the organisms in the sample are different.

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

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

Ft<sup>3</sup>/s-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,445 cubic meters. It represents a runoff of approximately 0.0372 inch from 1 square mile or 0.3468 millimeter from 1 square kilometer.



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

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

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap that is required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium and carbonate ( $\text{CaCO}_3$ ).

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

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult. Examples of metamorphic stages of insects are egg-larva-pupa-adult or egg-nymph-adult.

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

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

Milligrams per liter (MG/L, mg/l) is a unit for expressing the concentration of chemical constituents in solution and the weight of suspended matter. 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. Concentration of suspended sediment also is expressed in milligrams per liter, 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 factors in table 2. Dry weight, ash weight, and organic weight values of suspended matter (seston) are expressed in milligrams per liter.

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

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

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

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

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

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

Ion	Multiply by	Ion	Multiply by
Aluminum ( $\text{Al}^{+3}$ )*	0.11119	Iodide ( $\text{I}^{-1}$ )	0.00788
Ammonia as $\text{NH}_4$	.05544	Iron ( $\text{Fe}^{+3}$ )*	.05372
Barium ( $\text{Ba}^{+2}$ )	.01456	Lead ( $\text{Pb}^{+2}$ )*	.00965
Bicarbonate ( $\text{HCO}_3^{-1}$ )	.01639	Lithium ( $\text{Li}^{+1}$ )*	.14411
Bromide ( $\text{Br}^{-1}$ )	.01251	Magnesium ( $\text{Mg}^{+2}$ )	.08226
Calcium ( $\text{Ca}^{+2}$ )	.04990	Manganese ( $\text{Mn}^{+2}$ )*	.03640
Carbonate ( $\text{CO}_3^{-1}$ )	.03333	Nickel ( $\text{Ni}^{+2}$ )*	.03406
Chloride ( $\text{Cl}^{-1}$ )	.02821	Nitrate ( $\text{NO}_3^{-1}$ )	.01613
Chromium ( $\text{Cr}^{+6}$ )*	.11539	Nitrite ( $\text{NO}_2^{-1}$ )	.02174
Cobalt ( $\text{Co}^{+2}$ )*	.03394	Phosphate ( $\text{PO}_4^{-3}$ )	.03159
Copper ( $\text{Cu}^{+2}$ )*	.03148	Potassium ( $\text{K}^{+1}$ )	.02557
Cyanide ( $\text{CN}^{-1}$ )	.03844	Sodium ( $\text{Na}^{+1}$ )	.04350
Fluoride ( $\text{F}^{-1}$ )	.05264	Strontium ( $\text{Sr}^{+2}$ )*	.02283
Hydrogen ( $\text{H}^{+1}$ )	.99209	Sulfate ( $\text{SO}_4^{-2}$ )	.02082
Hydroxide ( $\text{OH}^{-1}$ )	.05880	Zinc ( $\text{Zn}^{+2}$ )*	.03060

Table 2.--Factors for conversion of sediment concentration in  
milligrams per liter to parts per million<sup>1</sup>

[All values calculated to three significant figures]

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

<sup>1</sup>Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

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

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

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

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

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

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

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

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

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

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

Phytoplankton are the plant part of the plankton. They are usually microscopic and their movement is subject to water currents. Phytoplankton growth is dependent upon solar radiation and nutrient elements. Phytoplankton are expressed as the number of cells per unit volume of water or types and number of organisms per unit volume of water.

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

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

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

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

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms, chiefly green plants.

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

Milligrams of oxygen per unit area or volume per unit time [ $\text{mg}(\text{O}_2/\text{m}^2)/\text{time}$  for periphyton and macrophytes and  $\text{mg}(\text{O}_2/\text{m}^2)/\text{time}$  or  $\text{mg}(\text{O}_2/\text{m}^3)/\text{time}$  for phytoplankton] are units for expressing primary productivity. They estimate productivity and respiration rates as determined from changes in the measured dissolved oxygen concentration. Unit time may be expressed per hour or per day depending on the incubation period.

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

Bedload is the quantity of sediment transported in a stream by rolling, sliding, or skipping along the bed and very close to it; that is, within the bed layer.

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

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

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

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

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft (0.9 m) above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture ( $\text{mg}/\text{l}$ ).

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

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

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

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

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

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

Substrate is the physical surface upon which an organism lives.

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

Artificial substrate is a device which is placed in a stream or lake for colonization of organisms.

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

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

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

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

Total (as used in tables of chemical analyses) refers to the amount of a substance that is present both in solution and in suspension. Analyses are performed on representative samples of water-suspended sediment mixtures.

Turbidity of a sample is the reduction of transparency due to the presence of particulate matter. In this report it is expressed in Jackson turbidity units (JTU).

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

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

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

### 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.

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

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

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

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

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

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

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

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

#### 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 surface-water and 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 surface-water station, water-quality 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 between the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete 8-digit number for each station, such as 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 for California are in Part 9 (Colorado River Basin), Part 10 (The Great Basin), and Part 11 (Pacific slope basins in California). All records for a drainage basin encompassing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

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  $33^{\circ}29'27''$ , long  $117^{\circ}39'42''$  would be 332927117394201.

#### NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The well-numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits is a sequential number for wells within a 1-second grid. The system provides the geographic location of the well and a unique number for each well. In the event that the latitude-longitude coordinates are the same for two or more wells or for a surface-water miscellaneous sampling site and a well site, the sequential numbers "01", "02", etc. are used for differentiation within the same sequence. See figure 1.

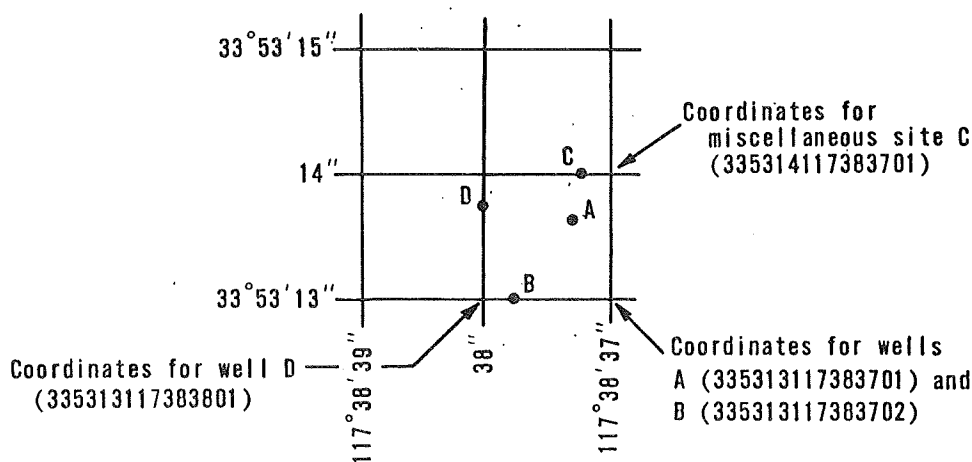


Figure 1.--System for numbering wells and miscellaneous sites (latitude and longitude).

#### Local well numbers

Wells and springs in California are assigned numbers according to their location on the rectangular system for the subdivision of public land. For example, in the number 11S/17E-22A1 M, assigned to a well about a mile west of Madera, the part of the number preceding the slash indicates the township (T.11 S.) and the number between the slash and hyphen indicates the range (R.17 E.); the digits following the hyphen indicate the section (sec.22); the letter following the section number indicates the 40-acre subdivision of the section, as shown in figure 2. Within each 40-acre tract, the wells are numbered serially, as indicated by the final digit. The final letter, separated from the rest of the number by a space, indicates the base line and meridian. Base-line and meridian designations are as follows: H, Humboldt; M, Mount Diablo; S, San Bernardino.



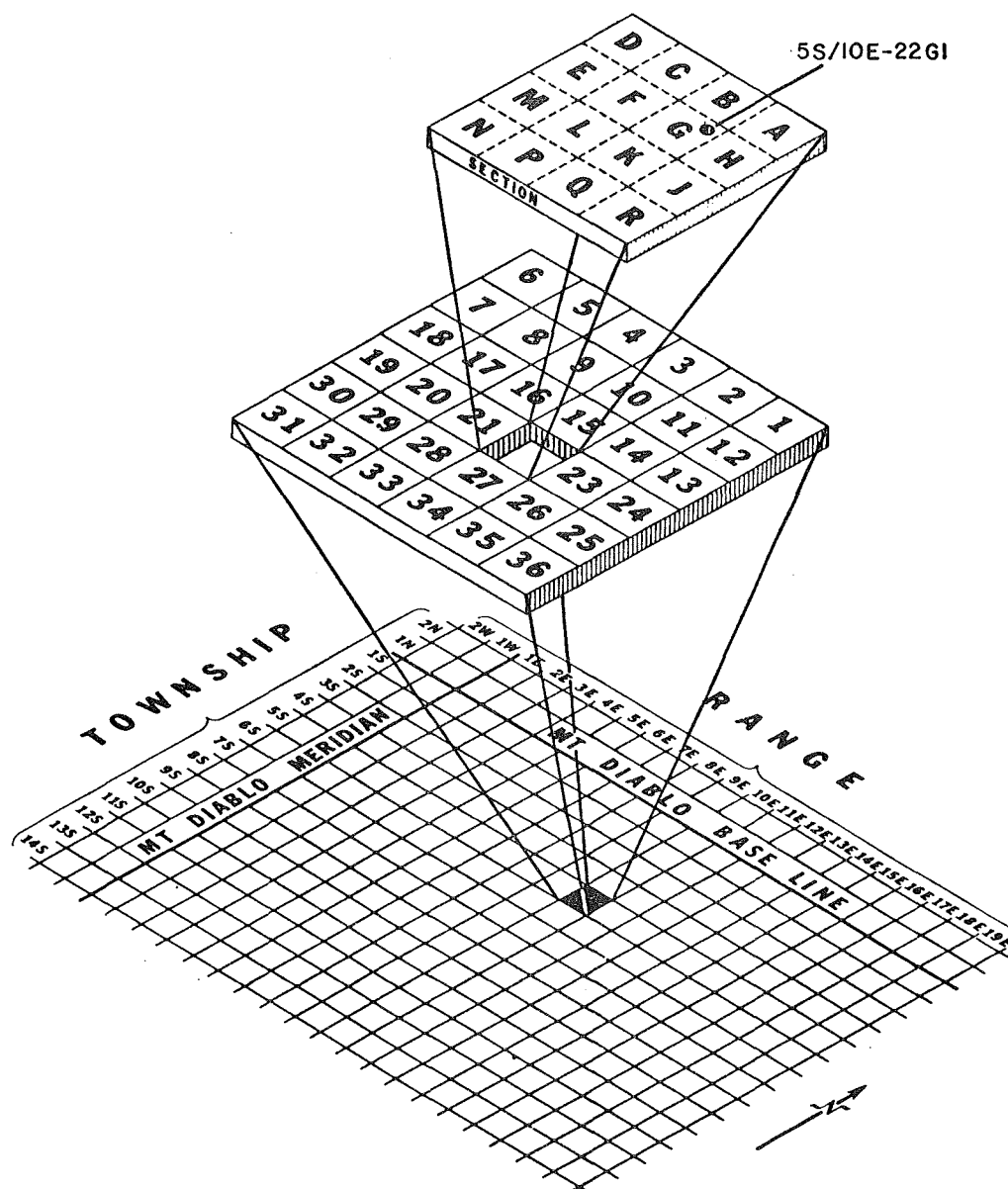


Figure 2.--Local well-numbering system.

## EXPLANATION OF SURFACE-WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives a continuous graph of the fluctuations or a tape punched at 15-, 30-, or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in the U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For a stream-gaging station rating tables giving the discharge for any stage are prepared from stage-discharge relation curves defined by discharge measurements. If extensions to the rating curves are necessary to define the extremes of discharge, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in determining discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of basic data. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging station gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATIONS" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey, unless otherwise qualified. The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE", it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum discharge if there is little or no regulation (or the minimum contents), and the minimum gage height if it is significant are given under "EXTREMES." The minimum daily discharge is given if there is extensive regulation (also the minimum discharge and gage height if they are abnormally low). In the first paragraph headed "Current year:" the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in the PERIOD OF RECORD paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge or maximum contents, it is given separately. Information pertaining to the accuracy of the discharge records, and to conditions that affect the natural flow at the gaging station, is given under "REMARKS"; for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the

description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1933 stands for the water year October 1, 1932, to September 30, 1933. If no daily, monthly, or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given.

Skeleton capacity tables are published for all reservoirs for which records of contents are published on a daily basis.

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

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

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

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

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

Data collected at partial-record stations and miscellaneous sites are given in three tables at the end of the daily records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of annual maximum stage and discharge at crest-stage stations, and the third is a table of discharge measurements at miscellaneous sites.

### Accuracy of data

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

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

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

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

### Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in California for the period October 1960 to September 1965, are in Water-Supply Papers 1926, 1927, 1928, 1929, 1930, and 1931; and for the period October 1965 to September 1970, are in Water-Supply Papers 2126, 2127, 2128, 2129, 2130, and 2131.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950, and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual discharge and monthend storage for all previously published records, as well as some records not contained in the annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in California are compiled in Water-Supply Papers 1313, 1314, 1315-A, and 1315-B through September 1950, and in 1733, 1734, and 1735 for October 1950 to September 1960.

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

### Other data available

Occasionally, discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also at the end of this report.

More detailed information than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Many gaging-station records in California through 1968 have been analyzed to give several statistical summaries: (1) the number of days in each year that the daily discharge was between selected limits (duration tables); (2) the lowest mean discharge for selected numbers of consecutive days in each year; and (3) the highest mean discharge for selected numbers of consecutive days in each year.

At or near some gaging stations, water-quality records also are collected. Data are obtained on the chemical quality of the stream water, on water temperature, on suspended-sediment concentration, and on the particle-size distribution of suspended sediment and bed material. These data are given immediately following the gaging station record, or if mentioned in the "REMARKS" paragraph, in the water-quality partial-record section of this report.

### Records of discharge collected by agencies other than the Geological Survey

Records of discharge not published by the Geological Survey have been collected at numerous sites by many other Federal, State, County, City, and local agencies, and by private organizations. A listing of stream-gaging stations and the agencies operating them is published in California Department of Water Resources Bulletin 157, "Index of Stream-Gaging Stations in and Adjacent to California." The Office of Water Data Coordination, Water Resources Division, U.S. Geological Survey, Reston, Virginia, 22092, maintains an index of such sites. Information on records at specific sites can be obtained upon request.

## EXPLANATION OF WATER-QUALITY RECORDS

### Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and the sediment loads.

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 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. Location descriptions and the drainage area are given for stations where no stream-gaging records are published. For ground-water sampling stations, no descriptive statements are given. However, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of ground water.

Water-quality information is presented for chemical quality, biological, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain

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

Prior to the 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the U.S. Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per 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 million 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 table 3.

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 "Definition of Terms," p. 3.).

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

[Temperature reported to nearest 0.5°C]

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

Biological and microbiological variables

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

In the determination of total coliform bacteria, the samples are incubated in an enriched nutrient medium at  $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$  for 18-24 hours. For fecal coliform bacteria, the samples are incubated at  $44.5^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$  for 22 hours  $\pm 2$  hours. For fecal streptococcal bacteria, the samples are incubated at  $35^{\circ}\text{C} \pm 1.0^{\circ}\text{C}$  for 48 hours  $\pm 2$  hours.

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

### Solutes

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

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between the reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with noncontinuous-digital monitors, the records consist of daily maximum, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) may be obtained from the U.S. Geological Survey district office at the address given on page IV.

Ground-water quality normally does not change significantly during short periods of time; infrequent sampling and analysis of ground water adequately defines ground-water quality at a given site.

#### Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for surface-water stations. For daily stations, the water temperatures are taken at about the same time each day when sample is collected. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and month.

#### Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration at the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and stream-flow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

Turbidity

At some stations samples for the determination of turbidity were collected at the same frequency as samples collected for determination of suspended sediment. Turbidity, measured in Jackson turbidity units (JTU), is shown in relation to the concentration of sediment in the simultaneously collected sample.

Measured values of turbidity are significantly influenced by the type of instrument used. Turbidity values published in California reports prior to July 1966 were determined by means of a Hellige Turbidimeter and are not directly comparable with those published subsequently. Data published in parts per million as silica from July 1966 to September 1968, and in milligrams per liter as silica from October 1968 to September 1970, were measured with a model 1860 Hack Turbidimeter which is optically similar to the model 2100 Hach Turbidimeter used from October 1970 to September 1974, and the model 2100A Hach Turbidimeter used since October 1974. Scales are available for those instruments providing a readout in either milligrams per liter or in Jackson turbidity units. Hence, conversion of data for the period July 1966 through September 1970 from parts per million or milligrams per liter of silica to Jackson turbidity units can be made by use of table 4.

Table 4.--Conversion of turbidity values, measured by Hach Turbidimeters Model 1860 or 2100 from parts per million or milligrams per liter of silica to Jackson turbidity units.

Turbidity, in ppm or mg/l	Turbidity, in JTU
5	3
10	6
50	30
100	55
200	110
500	240
1,000	440

Publications

The following are 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.

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

A In preparation.

## EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

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

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

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

Water-level measurements in this report are given in feet with reference to either mean sea level (msl) or land-surface datum (lsd). Mean sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum above mean sea level is given in the well description.

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

Publications

Publication of ground-water level data for the United States in water-supply papers was begun by the Geological Survey in 1935. From 1935 through 1939, a single water-supply paper for each year covering the entire nation was issued (Water-Supply Papers 777, 817, 840, 845, and 886). From 1940 through 1974, separate water-supply papers were issued for 6 sections of the United States. Water-level data for California are in the water-supply papers listed below, each report containing one or more calendar years (January-December) of data. Data in this report are for the 12-month water year ending September 30.

Calendar year	Water-supply paper	Calendar year	Water-supply paper	Calendar year	Water-supply paper
1940	911	1946	1076	1953	1270
1941	941	1947	1101	1954	1326
1942	949	1948	1131	1955	1409
1943	991	1949	1161	1956-60	1770
1944	1021	1950	1170	1961-65	1855
1945	1028	1951	1196	1966-70	2010
		1952	1226	1971-74	A2162

A In preparation.

## HYDROLOGIC CONDITIONS

Runoff during the water year was significantly above normal in all parts of the north and central coastal regions of California. However, during the early months of the water year precipitation and streamflow varied from deficient to very deficient. Conditions changed during the last few days of January and the first half of February with heavy precipitation in the northern part of the State. Precipitation for the remainder of the region continued below normal. Streamflow was very excessive in the north coastal area during March with near record maximum daily discharge and total monthly runoff at the index station, Smith River near Crescent City. Runoff for the remainder of the region was well above normal during March. During April, May, and June runoff was generally at or in excess of normal. Runoff diminished throughout the region during the July through September period from slightly above normal to below normal.

The areal trend in runoff for the water year is shown in figure 3. Runoff at selected stations is given as a percentage of the median runoff for the 30-year period, 1941-70. In the area covered by this volume the runoff ranged from 70 to 198 percent. The average runoff was about 130 percent. Only in the Arroyo Grande basin was the average runoff below the median figure.

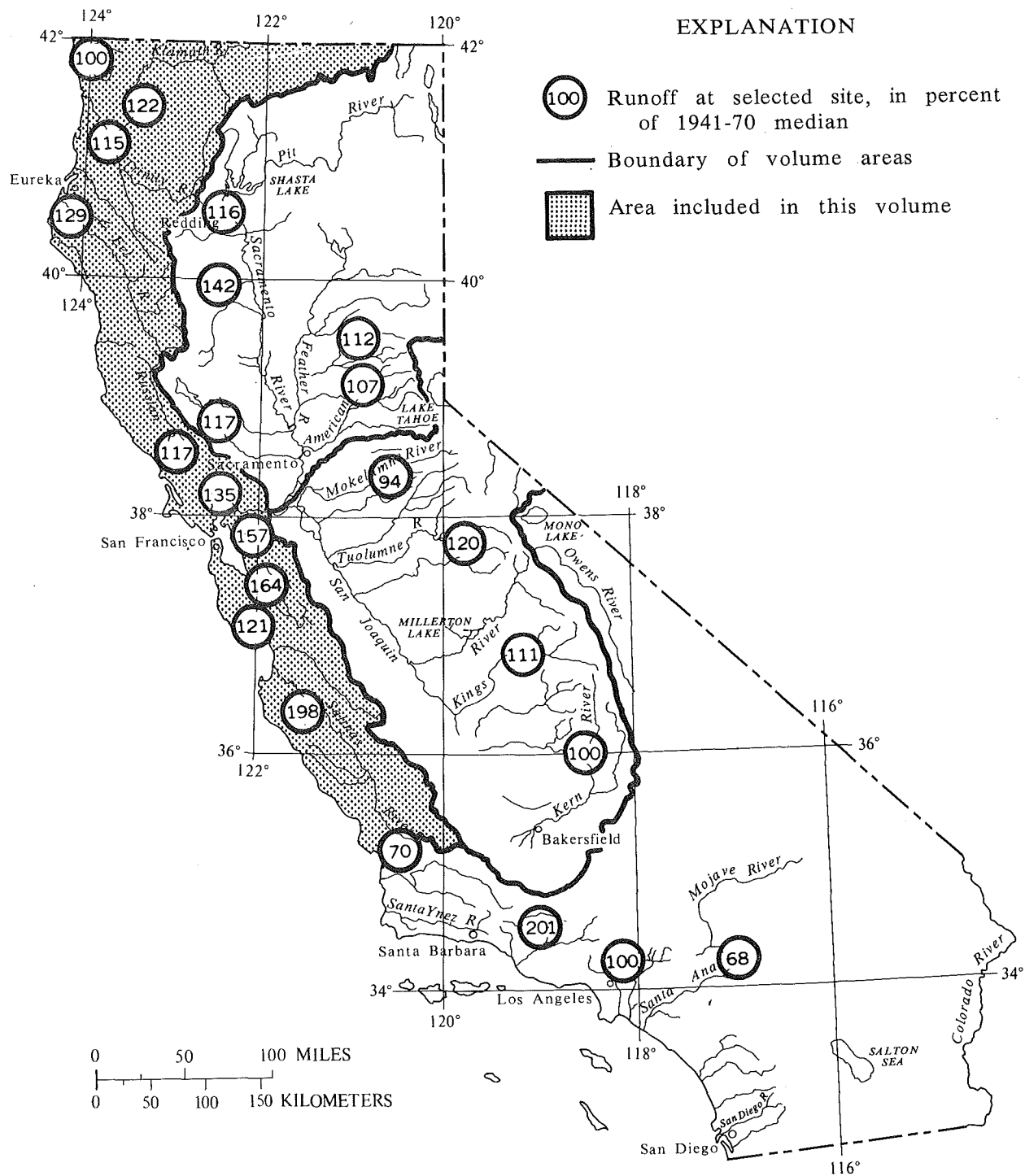


FIGURE 3.--Runoff for the current water year.

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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). Reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data are published in SI units.

Multiply English units	By	To obtain SI units
<i>Length</i>		
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)
<i>Area</i>		
acres	4047	square meters (m <sup>2</sup> )
	.4047	*hectares (ha)
	.4047	square hectometer (hm <sup>2</sup> )
	.004047	square kilometers (km <sup>2</sup> )
square miles (mi <sup>2</sup> )	2.590	square kilometers (km <sup>2</sup> )
<i>Volume</i>		
gallons (gal)	3.785	**liters (l)
	3.785	cubic decimeters (dm <sup>3</sup> )
	3.785x10 <sup>-3</sup>	cubic meters (m <sup>3</sup> )
million gallons (10 <sup>6</sup> gal)	3785	cubic meters (m <sup>3</sup> )
	3.785x10 <sup>-3</sup>	cubic hectometers (hm <sup>3</sup> )
cubic feet (ft <sup>3</sup> )	28.32	cubic decimeters (dm <sup>3</sup> )
	.02832	cubic meters (m <sup>3</sup> )
cfs-days [(ft <sup>3</sup> /s)·d]	2447	cubic meters (m <sup>3</sup> )
	2.447x10 <sup>-3</sup>	cubic hectometers (hm <sup>3</sup> )
acre-feet (acre-ft)	1233	cubic meters (m <sup>3</sup> )
	1.233x10 <sup>-3</sup>	cubic hectometers (hm <sup>3</sup> )
	1.233x10 <sup>-6</sup>	cubic kilometers (km <sup>3</sup> )
<i>Flow</i>		
cubic feet per second (ft <sup>3</sup> /s)	28.32	liters per second (l/s)
	28.32	cubic decimeters per second (dm <sup>3</sup> /s)
	.02832	cubic meters per second (m <sup>3</sup> /s)
gallons per minute (gpm)	.06309	liters per second (l/s)
	.06309	cubic decimeters per second (dm <sup>3</sup> /s)
	6.309x10 <sup>-5</sup>	cubic meters per second (m <sup>3</sup> /s)
million gallons per day (mgd)	43.81	cubic decimeters per second (dm <sup>3</sup> /s)
	.04381	cubic meters per second (m <sup>3</sup> /s)
<i>Mass</i>		
tons (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 edition.

## ARROYO GRANDE BASIN

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, on right bank at county road bridge 100 ft (30 m) upstream from Phoenix Creek, 8.8 mi (14.2 km) northeast of Arroyo Grande.

DRAINAGE AREA.--13.5 mi<sup>2</sup> (35.0 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--8 years, 2.85 ft<sup>3</sup>/s (0.0807 m<sup>3</sup>/s), 2,060 acre-ft/yr (2.54 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 17 ft<sup>3</sup>/s (0.48 m<sup>3</sup>/s) Mar. 7 (gage height, 4.63 ft or 1.411 m), from rating curve extended above 6.2 ft<sup>3</sup>/s (0.18 m<sup>3</sup>/s) as explained below; minimum daily, 0.60 ft<sup>3</sup>/s (0.017 m<sup>3</sup>/s) for several days.

Period of record: Maximum discharge, 1,270 ft<sup>3</sup>/s (36.0 m<sup>3</sup>/s) Jan. 25, 1969 (gage height, 6.83 ft or 2.082 m in gage well, 6.57 ft or 2.003 m, from floodmarks), from rating curve extended above 350 ft<sup>3</sup>/s (9.91 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.16 ft<sup>3</sup>/s (0.005 m<sup>3</sup>/s) Aug. 9, 1971.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.5	1.3	1.6	1.9	1.9	1.9	1.7	1.5	.68	.71	.71
2	1.4	1.4	1.3	1.5	5.8	1.9	1.9	1.7	1.5	.71	.60	.71
3	1.4	1.4	3.9	1.4	2.4	1.9	1.9	1.7	1.5	.70	.71	.60
4	1.5	1.4	3.8	1.4	3.2	1.8	1.9	1.6	1.5	.71	.71	.69
5	1.5	1.4	1.9	1.5	2.6	1.9	4.4	1.7	1.6	.71	.71	.69
6	1.5	1.4	1.7	1.5	2.4	2.5	2.4	1.7	1.7	.71	.69	.69
7	1.6	1.3	1.7	1.5	2.2	4.6	2.0	1.7	1.6	.71	.71	.71
8	1.7	1.4	1.5	1.7	2.0	2.4	1.9	1.5	1.5	.73	.84	.74
9	1.5	1.3	1.5	1.5	2.9	1.5	1.5	1.3	1.5	.75	.84	.84
10	1.5	1.3	1.6	1.5	3.2	2.4	1.5	1.3	1.5	.85	.84	.85
11	1.5	1.3	1.6	1.4	2.3	1.8	1.5	1.3	1.3	.99	.84	.85
12	1.5	1.3	1.6	1.3	2.2	1.5	1.6	1.3	1.3	.99	.99	.83
13	1.4	1.3	1.6	1.3	2.5	2.0	1.5	1.3	1.1	1.2	.99	.81
14	1.5	1.3	1.5	1.3	2.3	1.8	1.7	1.5	1.0	1.2	.99	.83
15	1.5	1.3	1.5	1.3	1.9	1.5	1.8	1.5	.99	1.2	.99	.81
16	1.2	1.3	1.5	1.2	2.0	2.1	1.7	1.3	.99	1.2	.99	.74
17	1.2	1.3	1.5	1.2	2.0	1.6	1.7	1.3	.99	1.2	.84	.75
18	1.2	1.3	1.5	1.2	2.0	1.5	1.7	1.3	.96	1.2	.84	.72
19	1.2	1.3	1.5	1.2	2.0	1.8	1.8	1.5	.95	.99	.84	.75
20	1.3	1.3	1.6	1.2	2.0	1.7	1.5	1.5	.93	.99	.84	.84
21	1.4	1.9	1.7	1.2	2.0	1.7	1.6	1.5	.86	.99	.71	.87
22	1.5	1.5	1.7	1.2	1.8	3.2	1.7	1.5	.86	.84	.71	.87
23	1.5	1.3	1.7	1.2	1.9	1.9	1.7	1.5	.87	.84	.71	.90
24	1.4	1.3	1.5	1.2	1.9	2.0	1.8	1.3	.84	.71	.71	.83
25	1.3	1.3	1.5	1.3	2.0	2.1	2.1	1.5	.84	.71	.71	.76
26	1.4	1.3	1.5	1.3	2.2	1.9	1.8	1.5	.83	.60	.71	.81
27	1.4	1.3	1.7	1.3	2.2	1.9	1.7	1.5	.81	.60	.71	.84
28	3.2	1.3	4.2	1.3	2.2	1.9	1.7	1.5	.76	.60	.71	.86
29	2.3	1.3	2.1	1.3	---	1.9	1.8	1.5	.74	.71	.71	.84
30	1.6	1.3	1.7	1.3	---	1.9	1.6	1.7	.82	.71	.71	.84
31	1.5	---	1.7	1.3	---	1.9	---	1.5	---	.60	.71	---
TOTAL	46.8	40.6	56.6	41.6	66.0	62.4	55.3	46.2	34.14	26.33	24.32	23.58
MEAN	1.51	1.35	1.83	1.34	2.36	2.01	1.84	1.49	1.14	.85	.78	.79
MAX	3.2	1.9	4.2	1.7	5.8	4.6	4.4	1.7	1.7	1.2	.99	.90
MIN	1.2	1.3	1.3	1.2	1.8	1.5	1.5	1.3	.74	.60	.60	.60
AC=FT	93	81	112	83	131	124	110	92	68	52	48	47
CAL YR 1974	TOTAL 884.50 MEAN 2.42 MAX 16 MIN 1.0 AC=FT 1750											
WTR YR 1975	TOTAL 523.87 MEAN 1.44 MAX 5.8 MIN .60 AC=FT 1040											

Peak discharge (base, 20 ft<sup>3</sup>/s).--No peak above base.

11141160 WITTENBERG CREEK NEAR ARROYO GRANDE, CALIF.

LOCATION.--Lat 35°13'02", long 120°27'17", in NE¼NE¼ sec.22, T.31 S., R.14 E., San Luis Obispo County, on left bank 0.4 mi (0.6 km) upstream from Huffs Hole Creek, and 10 mi (16 km) northeast of Arroyo Grande.

DRAINAGE AREA.--3.11 mi<sup>2</sup> (8.05 km<sup>2</sup>).

PERIOD OF RECORD.--August 1967 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 560 ft (171 m), from topographic map. Prior to Oct. 8, 1970, at site 0.2 mi (0.3 km) downstream at same datum.

AVERAGE DISCHARGE.--8 years, 1.11 ft<sup>3</sup>/s (0.0314 m<sup>3</sup>/s), 804 acre-ft/yr (991,000 m<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 34 ft<sup>3</sup>/s (0.96 m<sup>3</sup>/s) Mar. 7 (gage height, 3.87 ft or 1.180 m), from rating curve extended above 1.5 ft<sup>3</sup>/s (0.042 m<sup>3</sup>/s) on basis of computation of flow through culvert at gage height 4.98 ft (1.518 m); minimum daily, 0.01 ft<sup>3</sup>/s (<0.001 m<sup>3</sup>/s) for several days.  
Period of record: Maximum discharge, 840 ft<sup>3</sup>/s (23.8 m<sup>3</sup>/s) Jan. 19, 1969 (gage height, 7.9 ft or 2.41 m, from outside gage); no flow many days in most years.

REMARKS.--Records poor. No regulation; small diversions above station for domestic use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.05	.06	.18	.80	.34	.42	.34	.21	.15	.06	.02
2	.04	.04	.06	.17	10	.34	.43	.34	.20	.15	.06	.02
3	.04	.04	.24	.16	2.6	.34	.48	.34	.20	.15	.08	.02
4	.05	.04	.10	.15	9.4	.34	.49	.34	.21	.15	.06	.02
5	.04	.04	.06	.15	1.6	.35	1.5	.37	.19	.12	.05	.02
6	.04	.04	.06	.14	.21	.34	1.2	.41	.17	.12	.05	.02
7	.05	.04	.06	.14	.19	9.0	.97	.39	.15	.12	.06	.02
8	.05	.04	.08	.14	.20	4.0	.76	.39	.15	.10	.05	.02
9	.04	.04	.10	.12	2.3	.94	.65	.40	.14	.10	.05	.02
10	.04	.04	.10	.15	6.5	1.1	.58	.38	.14	.10	.05	.03
11	.04	.04	.09	.15	2.0	1.1	.58	.34	.13	.10	.05	.03
12	.04	.04	.09	.13	.88	.80	.52	.34	.12	.10	.04	.02
13	.04	.04	.09	.14	.76	.94	.49	.34	.15	.10	.05	.03
14	.04	.04	.08	.14	.55	1.3	.49	.34	.15	.12	.05	.03
15	.04	.03	.08	.13	.44	.94	.49	.35	.15	.10	.05	.02
16	.04	.04	.09	.13	.41	1.4	.45	.40	.15	.08	.03	.02
17	.04	.04	.09	.14	.41	1.1	.41	.38	.15	.08	.04	.01
18	.04	.04	.08	.14	.36	.80	.41	.38	.15	.08	.03	.01
19	.05	.04	.07	.13	.35	.80	.41	.34	.15	.06	.03	.02
20	.05	.03	.08	.13	.38	.58	.39	.28	.17	.06	.01	.02
21	.05	.05	.07	.15	.37	.58	.38	.28	.15	.08	.01	.02
22	.05	.05	.07	.14	.41	2.4	.34	.29	.15	.08	.01	.01
23	.05	.05	.07	.16	.41	1.4	.34	.28	.15	.08	.02	.01
24	.05	.05	.08	.17	.40	1.1	.35	.28	.15	.06	.02	.01
25	.05	.05	.09	.18	.34	1.1	.34	.28	.15	.06	.03	.01
26	.05	.05	.10	.19	.34	.80	.34	.28	.15	.06	.03	.01
27	.05	.06	.14	.19	.34	.66	.34	.27	.12	.08	.02	.01
28	.12	.05	.25	.19	.34	.58	.34	.26	.12	.08	.02	.02
29	.06	.05	.35	.19	---	.52	.34	.23	.12	.08	.02	.02
30	.05	.05	.27	.19	---	.47	.34	.23	.12	.08	.01	.02
31	.05	---	.20	.19	---	.44	---	.23	---	.08	.01	---
TOTAL	1.48	1.30	3.45	4.80	43.29	36.90	15.57	10.10	4.61	2.96	1.15	.56
MEAN	.048	.043	.11	.15	1.55	1.19	.52	.33	.15	.096	.037	.019
MAX	.12	.06	.35	.19	10	9.0	1.5	.41	.21	.15	.08	.03
MIN	.04	.03	.06	.12	.19	.34	.34	.23	.12	.06	.01	.01
AC=FT	2.9	2.6	6.8	9.5	86	73	31	20	9.1	5.9	2.3	1.1

CAL YR 1974 TOTAL 422.29 MEAN 1.16 MAX 73 MIN .03 AC=FT 838  
WTR YR 1975 TOTAL 126.17 MEAN .35 MAX 10 MIN .01 AC=FT 250

Peak discharge (base, 50 ft<sup>3</sup>/s).--No peak above base.

NOTE.--No gage-height record Dec. 9 to Jan. 8.

## ARROYO GRANDE BASIN

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

DRAINAGE AREA.--21.6 mi<sup>2</sup> (55.9 km<sup>2</sup>).

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

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

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

EXTREMES.--Current year: Maximum discharge, 200 ft<sup>3</sup>/s (5.66 m<sup>3</sup>/s) Feb. 2 (gage height, 4.54 ft or 1.384 m), from rating curve extended as explained below; minimum daily, 1.6 ft<sup>3</sup>/s (0.045 m<sup>3</sup>/s) Sept. 5, 6.  
Period of record: Maximum discharge, 2,830 ft<sup>3</sup>/s (80.1 m<sup>3</sup>/s) Jan. 25, 1969 (gage height, 9.26 ft or 2.822 m in gage well, 10.8 ft or 3.29 m, from floodmarks), from rating curve extended above 300 ft<sup>3</sup>/s (8.50 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.56 ft<sup>3</sup>/s (0.016 m<sup>3</sup>/s) Aug. 15, 1972.

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	3.9	5.2	7.2	5.9	4.8	8.7	6.3	4.2	2.7	2.2	1.9
2	3.1	3.9	4.8	6.7	8.0	5.2	8.2	6.3	4.2	2.5	1.8	1.8
3	3.1	3.9	8.7	6.3	24	5.2	8.2	6.3	4.2	2.5	2.0	1.8
4	3.4	3.6	12	5.9	48	4.9	8.2	5.9	3.9	2.5	2.0	1.8
5	3.4	3.6	5.2	5.9	30	5.9	45	5.9	3.9	2.5	1.8	1.6
6	3.4	3.6	4.2	5.5	14	10	36	5.9	3.9	2.5	1.8	1.6
7	3.4	3.4	3.9	5.2	9.8	57	26	5.9	3.9	2.5	1.8	1.7
8	3.6	3.6	3.9	4.8	8.2	58	20	5.5	3.9	2.5	1.7	2.0
9	3.4	3.4	4.2	4.8	34	27	17	5.5	3.9	2.3	1.7	2.1
10	3.4	3.4	4.2	4.8	50	22	15	5.5	3.9	2.5	1.9	2.2
11	3.1	3.6	4.2	4.5	23	20	14	5.5	3.9	2.5	1.9	2.3
12	2.9	3.6	4.2	4.2	15	16	12	5.5	3.6	2.3	2.0	2.3
13	2.9	3.4	4.2	4.5	13	16	12	5.5	3.4	2.5	2.1	2.3
14	3.1	3.4	3.9	4.5	12	21	11	5.5	3.4	2.5	2.2	2.4
15	2.9	3.9	3.9	4.5	9.2	16	11	5.5	3.4	2.3	2.2	2.5
16	2.5	4.2	3.9	4.5	8.7	19	9.8	5.2	3.4	2.3	2.2	2.3
17	3.6	4.2	4.2	4.5	8.2	16	9.8	5.2	3.4	2.3	2.3	2.2
18	2.5	3.9	4.5	4.5	7.2	15	9.2	5.2	3.4	2.5	2.4	2.1
19	2.5	3.9	4.5	4.5	6.7	13	8.7	5.2	3.1	2.5	2.5	2.0
20	2.7	3.9	4.5	4.5	6.7	12	8.2	5.2	3.1	2.5	2.4	2.1
21	2.9	5.9	4.5	4.2	6.7	10	8.2	5.2	3.1	2.3	2.4	2.1
22	2.9	6.3	4.5	4.2	5.9	27	7.7	4.8	3.1	2.3	2.3	2.2
23	2.9	5.2	4.5	4.2	5.9	19	7.7	4.8	3.4	2.3	2.1	2.2
24	2.9	5.2	4.5	4.2	5.5	16	7.7	4.5	3.4	2.0	2.0	2.1
25	2.9	4.8	4.5	4.2	5.2	16	9.2	4.5	3.1	2.0	2.1	2.0
26	2.9	4.8	4.5	4.2	5.5	14	8.2	4.5	2.9	2.0	2.2	1.9
27	3.1	5.2	4.5	4.2	5.2	12	7.7	4.8	2.9	2.0	2.2	2.1
28	5.9	5.2	12	4.2	4.8	11	7.2	4.8	2.9	2.2	2.1	2.3
29	5.5	4.8	14	4.2	-----	10	6.7	4.5	2.9	2.2	2.0	2.5
30	4.2	4.8	8.7	4.2	-----	9.8	6.7	4.2	2.9	2.2	1.8	2.6
31	3.9	-----	7.7	4.2	-----	9.2	-----	4.2	-----	2.2	1.8	-----
TOTAL	101.8	126.5	172.2	148.0	458.3	518.0	375.0	163.3	104.6	72.9	63.9	63.0
MEAN	3.28	4.22	5.55	4.77	16.4	16.7	12.5	5.27	3.49	2.35	2.06	2.10
MAX	5.9	6.3	14	7.2	80	58	45	6.3	4.2	2.7	2.5	2.6
MIN	2.5	3.4	3.9	4.2	4.8	4.8	6.7	4.2	2.9	2.0	1.7	1.6
AC-FT	202	251	342	294	909	1,030	744	324	207	145	127	125

CAL YR 1974 TOTAL 4,278.0 MEAN 11.7 MAX 389 MIN 2.4 AC-FT 8,490  
WTR YR 1975 TOTAL 2,367.5 MEAN 6.49 MAX 80 MIN 1.6 AC-FT 4,700

Peak discharge (base, 30 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-2	0845	4.54	200	3-7	1930	4.48	182
2-4	1415	4.22	112	3-22	0700	3.85	38
2-10	0500	4.08	82	4-5	1215	4.05	74

## 11141400 TAR SPRING CREEK NEAR ARROYO GRANDE, CALIF.

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

DRAINAGE AREA.--18.2 mi<sup>2</sup> (47.1 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--8 years, 3.14 ft<sup>3</sup>/s (0.0889 m<sup>3</sup>/s), 2,270 acre-ft/yr (2.80 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 203 ft<sup>3</sup>/s (5.75 m<sup>3</sup>/s) Mar. 7 (gage height, 5.40 ft or 1.646 m); minimum daily, 0.08 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Aug. 18-20.

Period of record: Maximum discharge, 1,340 ft<sup>3</sup>/s (37.9 m<sup>3</sup>/s) Jan. 25, 1969 (gage height, 10.1 ft or 3.08 m, from floodmarks), from rating curve extended above 68 ft<sup>3</sup>/s (1.93 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.42	.52	1.1	1.4	3.0	1.1	.94	1.3	.61	.43	.25	.27
2	.48	.48	.94	1.4	20	1.0	.90	1.3	.53	.28	.44	.27
3	.42	.59	2.9	1.4	2.3	.93	1.1	1.2	.62	.47	.17	.36
4	.42	.58	7.1	1.6	4.0	1.1	1.5	1.1	.52	.22	.23	.38
5	.60	.64	1.5	1.4	3.2	1.2	4.6	1.4	.50	.45	.30	.40
6	.37	.68	1.5	1.3	2.2	1.5	1.9	1.1	.53	.36	.45	.46
7	.42	.73	1.3	1.3	2.2	19	1.7	1.1	.59	.47	.56	.56
8	.37	.74	1.2	1.3	2.1	12	1.4	1.1	.66	.44	.60	.45
9	.42	.65	1.4	1.3	4.0	5.7	1.2	1.0	.58	.45	.31	.44
10	.42	.91	1.4	1.2	4.6	8.7	1.2	1.2	.67	.41	.46	.48
11	.48	.65	1.2	1.3	1.9	5.4	1.2	1.1	.83	.25	.38	.44
12	.42	.56	1.2	1.2	1.6	4.8	1.1	.98	.66	.99	.12	.46
13	.60	.79	1.1	1.3	1.8	4.5	1.2	.88	.52	.17	.10	.53
14	.84	.73	1.2	1.1	1.6	5.7	1.2	1.2	.58	.46	.15	.43
15	.54	1.1	1.0	1.1	1.5	3.2	1.2	1.0	.77	.18	.10	.50
16	.55	.86	1.1	1.1	1.5	4.2	1.1	1.5	.82	.15	.12	.55
17	.83	.77	1.2	1.1	1.5	2.8	1.0	.77	.96	.28	.10	.32
18	.45	1.0	1.2	1.1	1.4	2.2	.93	1.1	1.2	.15	.08	.34
19	.40	.99	.96	1.0	1.4	1.7	1.1	.95	.91	.49	.08	.40
20	.51	1.0	.90	1.0	1.4	1.4	1.0	.88	.91	.58	.08	.38
21	.47	1.1	.99	1.4	1.4	3.0	1.4	.93	1.0	.50	.17	.34
22	.33	1.1	.96	1.0	1.4	7.8	1.4	.84	.79	.66	.32	.32
23	.50	1.0	.84	1.2	1.4	3.5	1.2	.89	.69	.59	.35	.32
24	.39	1.0	1.0	1.4	1.4	2.5	1.2	.93	.76	.57	.37	.50
25	1.2	.93	1.1	1.5	1.4	2.1	1.1	.88	.82	.44	.37	.33
26	.60	.91	1.2	1.6	1.4	1.8	1.0	.80	1.0	.49	.37	.51
27	.78	.73	1.2	1.7	1.1	1.6	.94	.76	.73	.27	.40	.50
28	.78	.82	3.1	2.1	1.1	1.4	.96	.84	.50	.16	.35	.82
29	.80	.79	1.8	1.9	---	1.2	1.1	.87	.47	.16	.46	.55
30	.93	.88	1.5	1.9	---	1.1	1.2	.85	.40	.16	.64	.67
31	.62	---	1.4	2.0	---	1.0	---	.63	---	.16	.29	---
TOTAL	17.36	24.23	46.49	42.6	73.8	115.13	38.97	31.38	21.13	11.84	9.14	13.28
MFAN	.56	.81	1.50	1.37	2.64	3.71	1.30	1.01	.70	.38	.29	.44
MAX	1.2	1.1	7.1	2.1	20	19	4.6	1.5	1.2	.99	.64	.82
MIN	.33	.48	.84	1.0	1.1	.93	.90	.63	.40	.15	.08	.27
AC-FT	34	48	92	84	146	228	77	62	42	23	18	26
(a)	1.14	.33	4.11	.04	3.92	3.21	1.06	0	0	0	0	0

CAL YR 1974 TOTAL 1610.40 MEAN 4.41 MAX 195 MIN .19 AC-FT 3190  
WTR YR 1975 TOTAL 445.35 MEAN 1.22 MAX 20 MIN .08 AC-FT 883

Date	Time	Peak discharge (base, 20 ft <sup>3</sup> /s)	Date	Time	G.H.	Discharge	a Precipitation, in inches.
12-4	0100	4.62	47	3-10	1400	4.35	21
2-2	1800	5.15	142	3-22	0415	4.46	31
3-7	1730	5.40	203				



11141600 LOS BERROS CREEK NEAR NIPOMO, CALIF.

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

DRAINAGE AREA.--15.0 mi<sup>2</sup> (38.8 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--7 years, 2.27 ft<sup>3</sup>/s (0.0643 m<sup>3</sup>/s), 1,640 acre-ft/yr (2.02 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, not determined, occurred Mar. 7 (gage height, unknown); minimum daily, 0.22 ft<sup>3</sup>/s (0.006 m<sup>3</sup>/s) Oct. 1-4, 6, 7.

Period of record: Maximum discharge, 599 ft<sup>3</sup>/s (17.0 m<sup>3</sup>/s) Jan. 25, 1969 (gage height, 5.43 ft or 1.655 m), from rating curve extended above 230 ft<sup>3</sup>/s (6.51 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.01 ft<sup>3</sup>/s (<0.001 m<sup>3</sup>/s) Nov. 3, 1972, Nov. 14, 1973.

REMARKS.--Records good except those for period of no gage-height record, which are poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.22	.44	.57	.76	.99	1.3	1.6	1.3	.80	.50	.39	.39
2	.22	.44	.57	.76	9.4	1.3	1.7	1.3	.80	.57	.39	.39
3	.22	.44	1.9	.80	2.0	1.3	1.8	1.2	.76	.57	.39	.39
4	.22	.44	5.3	.88	5.3	1.2	1.7	1.4	.71	.57	.38	.39
5	.24	.44	1.9	.78	3.9	1.3	4.5	1.2	.70	.57	.39	.35
6	.22	.50	1.2	.72	3.3	2.5	2.5	.85	.69	.50	.38	.34
7	.22	.50	.89	.72	2.5	10	2.0	1.2	.72	.50	.39	.34
8	.26	.50	.80	.72	2.3	5.0	2.2	1.1	.75	.50	.41	.34
9	.26	.50	.72	.72	3.1	2.8	1.8	1.0	.73	.50	.40	.34
10	.26	.50	.64	.80	5.9	4.5	1.8	1.1	.72	.50	.39	.34
11	.26	.50	.64	.80	3.4	2.6	1.8	1.1	.72	.57	.42	.34
12	.26	.50	.72	.80	2.5	2.4	1.7	.97	.72	.57	.44	.37
13	.26	.50	.72	.80	2.3	2.2	1.6	.96	.64	.57	.43	.39
14	.26	.50	.80	.80	2.2	2.8	1.6	.99	.72	.57	.39	.39
15	.26	.50	.80	.80	2.1	1.7	1.6	.99	.72	.61	.42	.42
16	.28	.50	.89	.80	2.0	2.0	1.6	1.0	.72	.62	.44	.39
17	.27	.50	.80	.80	1.9	1.5	1.8	1.0	.72	.50	.44	.38
18	.26	.50	.80	.72	1.8	1.3	1.6	.99	.72	.50	.44	.34
19	.26	.50	.80	.72	1.7	1.4	1.4	.99	.72	.50	.44	.35
20	.30	.50	.80	.72	1.7	1.6	1.4	1.0	.64	.51	.44	.41
21	.30	.50	.80	.72	1.6	2.5	1.3	.99	.64	.53	.44	.41
22	.30	.57	.80	.72	1.6	4.7	1.3	.95	.72	.50	.39	.42
23	.29	.57	.89	.80	1.6	1.9	1.3	.95	.72	.50	.39	.44
24	.30	.50	.89	.80	1.6	1.6	1.3	.86	.72	.50	.39	.43
25	.30	.50	.89	.80	1.6	1.3	1.5	.84	.57	.49	.39	.39
26	.30	.57	.89	.80	1.5	1.2	1.4	.86	.57	.44	.42	.39
27	.30	.57	.80	.64	1.3	1.1	1.3	.87	.57	.44	.39	.39
28	.51	.57	1.9	.72	1.3	1.1	1.3	.83	.57	.44	.39	.44
29	.51	.57	1.5	.80	---	1.2	1.3	.78	.57	.44	.38	.44
30	.48	.57	1.0	.89	---	1.3	1.3	.74	.57	.44	.39	.44
31	.44	---	.78	.89	---	1.4	---	.70	---	.39	.40	---
TOTAL	9.04	15.19	33.40	24.00	72.39	70.0	51.0	31.01	20.64	15.91	12.58	11.58
MEAN	.29	.51	1.08	.77	2.59	2.26	1.70	1.00	.69	.51	.41	.39
MAX	.51	.57	5.3	.89	9.4	10	4.5	1.4	.80	.62	.44	.44
MIN	.22	.44	.57	.64	.99	1.1	1.3	.70	.57	.39	.38	.34
AC-FT	18	30	66	48	144	139	101	62	41	32	25	23
CAL YR 1974	TOTAL 975.90	MEAN 2.67	MAX 86	MIN .19	AC-FT 1940							
WTR YR 1975	TOTAL 366.74	MEAN 1.00	MAX 10	MIN .22	AC-FT 727							

Date	Time	G.H.	Peak discharge (base, 7 ft <sup>3</sup> /s) Discharge	Date	Time	G.H.	Discharge
1-3	2345	1.76	11	3-7	unknown	--	unknown
2-2	0815	2.30	49	3-22	unknown	--	unknown
2-10	1100	1.69	8.0				

NOTE.--No gage-height record Feb. 2 to Apr. 3.

## MORRO CREEK BASIN

11142080 MORRO CREEK AT MORRO BAY, CALIF.

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

DRAINAGE AREA.--24.0 mi<sup>2</sup> (62.2 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6.1 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 9.63 ft<sup>3</sup>/s (0.273 m<sup>3</sup>/s), 6,980 acre-ft/yr (8.61 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 132 ft<sup>3</sup>/s (3.74 m<sup>3</sup>/s) Mar. 7 (gage height, 3.85 ft or 1.173 m); no flow for many days.

Period of record: Maximum discharge, 1,960 ft<sup>3</sup>/s (55.5 m<sup>3</sup>/s) Jan. 18, 1973 (gage height, 10.38 ft or 3.164 m), from rating curve extended above 440 ft<sup>3</sup>/s (12.5 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow for long periods in most years.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	2.1	1.9	2.2	2.6	5.5	10	4.9	2.3	.67	.26	
2	.80	1.9	1.7	2.2	28	5.3	9.7	4.9	2.3	.04	.02	
3	1.1	1.9	4.6	1.9	21	5.0	9.3	4.5	2.3	.13	.04	
4	1.3	1.7	5.3	1.9	26	5.2	9.1	4.5	1.9	.23	.19	
5	1.2	1.7	2.9	1.9	23	5.7	12	4.1	2.3	.45	.13	
6	1.2	1.7	2.3	1.9	15	6.1	12	3.8	2.3	.42	.13	
7	1.2	1.7	2.1	1.9	12	94	11	3.8	2.6	.51	.09	
8	1.5	1.7	2.1	2.2	10	61	10	3.4	2.1	.41	.02	
9	1.5	1.5	2.1	2.2	29	33	9.7	3.4	2.1	.25	0	
10	1.5	1.5	1.9	2.1	49	35	9.3	3.1	1.9	.33	0	
11	1.2	1.3	1.7	1.9	28	27	9.1	3.1	1.7	.25	0	
12	1.2	1.3	1.9	1.9	19	22	8.7	3.1	1.7	.35	0	
13	.80	1.3	1.7	1.8	21	23	8.7	3.1	1.7	.43	0	
14	.80	1.5	1.2	1.7	17	23	8.7	3.4	1.9	.41	0	
15	.80	1.3	1.1	1.7	14	19	8.4	3.4	2.1	.27	0	
16	.70	1.1	1.1	1.7	12	21	8.7	3.1	1.7	.54	0	
17	.32	1.2	1.1	1.5	10	17	8.1	3.1	1.5	.57	0	
18	.38	1.3	1.1	1.5	9.6	16	7.6	2.8	1.5	.27	0	
19	.61	1.3	1.1	1.5	8.8	15	7.6	2.8	1.3	.13	0	
20	.61	1.2	1.1	1.7	8.4	13	7.1	2.8	1.3	.40	0	
21	.70	1.7	1.1	1.7	7.7	13	6.1	2.6	1.5	.69	0	
22	.80	2.1	1.1	1.5	7.2	38	6.6	2.8	1.3	.51	0	
23	1.1	1.7	1.1	1.5	6.9	26	6.6	2.6	.92	.23	0	
24	1.2	1.5	1.1	1.5	6.6	22	6.1	2.6	.92	.55	0	
25	1.1	1.5	1.1	1.5	6.4	21	7.6	2.6	.92	.48	0	
26	1.2	1.5	1.5	1.3	6.1	17	6.6	2.6	1.1	.35	0	
27	1.2	1.5	2.5	1.3	5.8	16	6.1	2.3	.61	.34	0	
28	2.6	1.5	3.9	1.5	5.7	14	5.7	2.6	.19	.22	0	
29	2.6	1.5	3.0	1.7	---	13	5.3	2.3	.01	.82	0	
30	1.9	1.7	2.4	1.9	---	12	5.3	2.6	1.6	.82	0	
31	1.9	---	2.2	1.9	---	11	---	2.6	---	.70	0	---
TOTAL	35.82	46.4	61.0	54.6	415.8	614.8	246.8	99.3	47.57	12.77	.88	0
MEAN	1.16	1.55	1.97	1.76	14.9	19.8	8.23	3.20	1.59	.41	.028	0
MAX	2.6	2.1	5.3	2.2	49	61	12	4.9	2.6	.82	.26	0
MIN	.32	1.1	1.1	1.3	2.6	5.0	5.3	2.3	.01	.04	0	0
AC=FT	71	92	121	108	825	1220	490	197	94	25	1.7	0
CAL YR 1974 TOTAL	6486.66			MEAN 17.8	MAX 560	MIN .32	AC=FT 12870					
WTR YR 1975 TOTAL	1635.74			MEAN 4.48	MAX 61	MIN 0	AC=FT 3240					

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-2	1030	3.63	88	3-7	1700	3.85	132
2-10	0645	3.61	85	3-22	0545	3.59	79

NOTE.--No gage-height record Dec. 15 to Jan. 14.



## TORO CREEK BASIN

37

11142100 TORO CREEK NEAR MORRO BAY, CALIF.

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

DRAINAGE AREA.--14.0 mi<sup>2</sup> (36.3 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 6.39 ft<sup>3</sup>/s (0.181 m<sup>3</sup>/s), 4,630 acre-ft/yr (5.71 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 94 ft<sup>3</sup>/s (2.66 m<sup>3</sup>/s) Feb. 10 (gage height, 2.10 ft or 0.640 m); minimum daily, 0.07 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Sept. 29.

Period of record: Maximum discharge, 4,600 ft<sup>3</sup>/s (130 m<sup>3</sup>/s) Jan. 18, 1973 (gage height, 9.65 ft or 2.941 m), from rating curve extended above 140 ft<sup>3</sup>/s (3.96 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times in most years.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	1.4	1.3	1.8	2.0	3.4	5.5	2.9	1.8	.73	.39	.18
2	.93	1.3	1.3	1.8	15	3.4	5.2	2.9	1.8	.73	.34	.18
3	.93	1.2	3.4	1.6	9.4	3.4	4.8	2.9	1.6	.73	.34	.17
4	.93	1.2	4.9	1.6	8.1	3.4	4.5	2.9	1.6	.73	.39	.20
5	1.0	1.2	2.5	1.6	9.0	3.4	5.1	2.8	1.6	.73	.39	.23
6	1.0	1.0	2.3	1.6	6.5	3.8	5.2	2.7	1.6	.73	.44	.20
7	1.0	1.2	2.1	1.6	5.8	24	5.1	2.5	1.6	.65	.29	.20
8	1.0	1.0	2.0	1.8	5.5	19	4.9	2.5	1.6	.57	.16	.22
9	1.0	1.2	1.8	1.8	30	11	4.6	2.5	1.6	.50	.11	.21
10	1.0	1.2	1.8	1.8	37	15	4.4	2.5	1.6	.50	.13	.22
11	1.0	1.0	1.8	1.8	15	11	4.3	2.2	1.6	.57	.13	.24
12	1.0	1.0	1.8	1.6	10	9.0	4.1	2.0	1.6	.57	.17	.25
13	1.0	1.0	1.8	1.6	15	9.0	4.1	1.8	1.6	.44	.16	.20
14	.93	1.2	1.8	1.4	10	9.9	4.1	2.0	1.6	.50	.22	.28
15	.93	1.2	1.8	1.4	8.5	8.1	4.1	2.1	1.6	.57	.27	.27
16	.82	1.0	1.6	1.4	7.3	9.0	4.2	2.1	1.8	.57	.33	.19
17	.73	.93	1.6	1.3	6.2	7.3	4.1	2.1	1.8	.50	.35	.19
18	.65	1.2	1.6	1.3	5.8	6.9	3.9	2.1	1.6	.57	.41	.19
19	.65	1.2	1.6	1.3	5.2	6.2	3.8	2.1	1.6	.65	.42	.19
20	1.0	1.2	1.6	1.3	4.9	5.8	3.7	2.1	1.4	.50	.46	.14
21	.93	1.4	1.6	1.3	4.4	5.5	3.6	2.1	1.4	.50	.47	.13
22	1.0	1.6	1.6	1.4	4.1	22	3.6	2.1	1.4	.50	.42	.17
23	.93	1.3	1.6	1.4	4.1	13	3.5	2.3	1.3	.50	.32	.17
24	.93	1.2	1.6	1.4	4.1	10	3.4	2.3	1.3	.44	.31	.13
25	.93	1.3	1.6	1.4	3.8	10	4.0	2.1	1.3	.39	.33	.11
26	.93	1.2	1.6	1.4	3.6	9.0	3.7	2.1	1.2	.34	.34	.12
27	.73	1.3	1.6	1.4	3.6	8.1	3.6	2.1	1.0	.34	.31	.09
28	2.0	1.2	3.2	1.4	3.4	6.9	2.6	2.0	.93	.34	.30	.08
29	2.0	1.2	2.7	1.4	---	6.2	2.6	2.0	.82	.44	.22	.07
30	1.6	1.3	2.0	1.4	---	5.8	2.8	2.0	.82	.50	.20	.10
31	1.5	---	1.8	1.4	---	5.8	---	1.8	---	.50	.18	---
TOTAL	31.91	35.83	61.3	46.7	247.3	274.3	123.1	70.6	44.07	16.83	9.30	5.32
MEAN	1.03	1.19	1.98	1.51	8.83	8.85	4.10	2.28	1.47	.54	.30	.18
MAX	2.0	1.6	4.9	1.8	37	24	5.5	2.9	1.8	.73	.47	.28
MIN	.65	.93	1.3	1.3	2.0	3.4	2.6	1.8	.82	.34	.11	.07
AC-FT	63	71	122	93	491	544	244	140	87	33	18	11
CAL YR 1974	TOTAL	4168.77	MEAN	11.4	MAX	291	MIN	.65	AC-FT	8270		
WTR YR 1975	TOTAL	966.56	MEAN	2.65	MAX	37	MIN	.07	AC-FT	1920		

Peak discharge (base, 40 ft<sup>3</sup>/s, revised)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-10	0145	2.10	94	3-22	0145	1.85	50
3-7	1500	1.95	69				

## ARROYO DE LA CRUZ BASIN

11142500 ARROYO DE LA CRUZ NEAR SAN SIMEON, CALIF.

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

DRAINAGE AREA.--41.2 mi<sup>2</sup> (106.7 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--25 years, 56.2 ft<sup>3</sup>/s (1.592 m<sup>3</sup>/s), 40,720 acre-ft (50.2 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 3,080 ft<sup>3</sup>/s (87.2 m<sup>3</sup>/s) Mar. 22 (gage height, 6.90 ft or 2.103 m); no flow for long periods.

Period of record: Maximum discharge, 35,200 ft<sup>3</sup>/s (997 m<sup>3</sup>/s) Dec. 6, 1966 (gage height, 15.27 ft or 4.654 m), from rating curve extended above 7,600 ft<sup>3</sup>/s (215 m<sup>3</sup>/s) on basis of slope-area measurements at gage heights 12.40 ft (3.780 m) and 15.27 ft (4.654 m); no flow for long periods in each year.

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

REVISIONS (WATER YEARS).--WSP 1245: 1951.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	19	442	7.0	60	7.9	1.4	.04		
2			0	14	1040	6.1	49	7.6	1.3	.03		
3			712	11	227	5.6	43	7.2	1.1	.03		
4			354	9.2	375	5.2	39	6.8	1.0	.02		
5			33	8.6	172	6.5	94	6.5	.88	.02		
6			9.2	8.1	82	90	94	6.4	.78	.02		
7			3.8	7.5	53	1090	63	6.2	.70	.02		
8			2.0	8.1	467	447	63	5.9	.62	.01		
9			1.1	9.2	898	157	48	5.7	.53	.01		
10			.64	7.0	667	150	33	5.3	.48	.01		
11			.42	6.1	227	90	27	4.9	.43	0		
12			.27	4.8	127	43	24	4.6	.38	0		
13			.16	4.5	395	105	21	4.2	.34	0		
14			.08	3.8	235	117	18	4.1	.30	0		
15			.07	3.5	133	45	17	4.0	.27	0		
16			.04	2.9	90	209	19	3.9	.24	0		
17			.02	2.9	67	62	17	3.6	.21	0		
18			0	2.4	49	36	14	3.5	.18	0		
19			0	2.2	38	24	13	3.5	.16	0		
20			0	2.2	31	17	12	3.4	.14	0		
21			0	2.2	24	63	11	3.3	.13	0		
22			0	2.2	19	898	11	3.0	.11	0		
23			0	2.2	16	255	9.8	2.8	.10	0		
24			0	2.2	14	192	10	2.6	.09	0		
25			0	2.0	12	212	28	2.3	.08	0		
26			0	2.0	11	161	14	2.1	.07	0		
27			0	1.7	8.6	130	11	2.0	.06	0		
28			382	1.3	8.1	108	9.7	1.9	.05	0		
29			140	1.3	---	90	8.9	1.7	.05	0		
30			49	1.3	---	80	8.3	1.6	.04	0		
31		---	28	1.5	---	69	---	1.5	.---	0		---
TOTAL	0	0	1715.80	156.9	5927.7	4970.4	889.7	130.0	12.22	.21	0	0
MEAN	0	0	55.3	5.06	212	160	29.7	4.19	.41	.007	0	0
MAX	0	0	712	19	1040	1090	94	7.9	1.4	.04	0	0
MIN	0	0	0	1.3	8.1	5.2	8.3	1.5	.04	0	0	0
AC-FT	0	0	3400	311	11760	9860	1760	258	.4	0	0	0
CAL YR 1974	TOTAL	32640.25	MEAN 89.4	MAX 2750	MIN 0	AC-FT 64740						
WTR YR 1975	TOTAL	13802.93	MEAN 37.8	MAX 1090	MIN 0	AC-FT 27380						

Date	Time	Peak discharge (base, 2,500 ft <sup>3</sup> /s)				
12-3	1800	G.H. Discharge	Date	Time	G.H.	Discharge
2-2	0645	6.78 2,950	3-7	1630	6.58	2,730
		6.49 2,630	3-22	0115	6.90	3,080

NOTE.--No gage-height record June 3 to July 11.

## BIG SUR RIVER BASIN

39

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

DRAINAGE AREA.--46.5 mi<sup>2</sup> (120.4 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--25 years, 95.7 ft<sup>3</sup>/s (2.710 m<sup>3</sup>/s), 69,330 acre-ft/yr (85.5 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,780 ft<sup>3</sup>/s (78.7 m<sup>3</sup>/s) Feb. 2 (gage height, 8.37 ft or 2.551 m); minimum daily, 18 ft<sup>3</sup>/s (0.51 m<sup>3</sup>/s) Oct. 1, Sept. 17-19, 29, 30.  
Period of record: Maximum discharge, 5,680 ft<sup>3</sup>/s (161 m<sup>3</sup>/s) Apr. 2, 1958 (gage height, 11.56 ft or 3.523 m); minimum, 3.7 ft<sup>3</sup>/s (0.10 m<sup>3</sup>/s) Oct. 7, 1961.

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

REVISIONS (WATER YEARS).--WSP 1445: 1952(P), 1953(M). WSP 1715: 1951, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	25	21	53	573	110	245	112	55	36	24	23
2	21	23	27	49	1560	107	230	108	54	38	24	23
3	21	23	338	46	508	101	218	105	54	35	25	21
4	21	22	224	44	426	97	210	104	53	33	25	21
5	21	22	93	42	349	123	260	101	52	32	25	20
6	22	21	65	45	261	168	228	99	52	30	25	19
7	21	22	53	44	221	873	210	96	51	29	25	19
8	21	22	46	47	273	776	200	94	50	29	26	19
9	23	21	42	45	845	575	192	92	48	30	26	20
10	23	21	39	43	939	514	182	90	47	30	25	20
11	20	20	36	41	623	455	172	88	46	30	25	21
12	19	21	35	39	468	398	165	85	45	29	26	20
13	21	21	33	38	618	437	158	84	44	28	26	19
14	22	21	32	37	529	451	152	83	44	29	26	19
15	22	20	31	36	434	416	155	83	46	26	27	19
16	21	19	30	35	366	457	158	80	47	29	26	19
17	21	19	29	34	308	406	150	78	44	29	26	18
18	22	19	29	33	267	375	146	76	45	27	25	18
19	23	19	28	32	237	348	140	76	46	26	27	18
20	23	19	28	32	214	320	132	74	46	26	26	19
21	23	49	27	31	190	356	128	72	44	25	23	19
22	23	41	27	30	173	800	130	71	41	24	23	19
23	25	27	26	30	161	547	131	69	39	22	21	19
24	26	24	26	29	149	479	134	68	39	23	22	20
25	25	23	26	29	140	482	138	66	37	21	23	20
26	23	22	26	29	131	426	128	65	39	21	22	20
27	24	21	52	28	122	380	123	63	39	21	23	19
28	41	21	152	28	117	335	119	61	37	21	23	19
29	42	21	88	28	---	315	115	58	36	22	23	18
30	27	21	68	28	---	290	113	56	36	23	24	18
31	26	---	60	36	---	265	---	55	---	23	24	---
TOTAL	731	690	1837	1141	11202	12182	4962	2512	1356	847	761	586
MEAN	23.6	23.0	59.3	36.8	400	393	165	81.0	45.2	27.3	24.5	19.5
MAX	42	49	338	53	1560	873	260	112	55	38	27	23
MIN	18	19	21	28	117	97	113	55	36	21	21	18
AC-FT	1450	1370	3640	2260	22220	24160	9840	4980	2690	1680	1510	1160
CAL YR 1974	TOTAL	45078	MEAN 124	MAX 1460	MIN 15	AC-FT 89410						
WTR YR 1975	TOTAL	38807	MEAN 106	MAX 1560	MIN 18	AC-FT 76970						

		Peak discharge (base, 700 ft <sup>3</sup> /s)					
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
12-3	2015	5.83	795	2-13	0930	5.59	778
2-2	0245	8.37	2,780	3-7	1515	6.97	1,650
2-10	0200	6.29	1,190	3-22	0115	6.60	1,390

## BIG SUR RIVER BASIN

11143000 BIG SUR RIVER NEAR BIG SUR, CALIF.--Continued

PERIOD OF RECORD.--Water temperatures: October 1965 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 19.0°C July 26, 27; minimum, 5.0°C Dec. 25, 26, Jan. 30.

Period of record:

Water temperatures: Maximum (1965-67, 1968 to current year), 21.0°C Aug. 9-11, 1971; minimum (1965-66, 1967 to current year), 5.0°C Dec. 15, 1967, Dec. 25, 26, 1974, Jan. 30, 1975.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

## 11143200 CARMEL RIVER AT ROBLES DEL RIO, CALIF.

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

DRAINAGE AREA.--193 mi<sup>2</sup> (500 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE (unadjusted).--18 years, 79.1 ft<sup>3</sup>/s (2.240 m<sup>3</sup>/s), 57,310 acre-ft/yr (70.7 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 4,740 ft<sup>3</sup>/s (134 m<sup>3</sup>/s) Feb. 1 (gage height, 9.42 ft or 2.871 m); minimum daily, 0.04 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Oct. 19, 20.

Period of record: Maximum discharge, 7,100 ft<sup>3</sup>/s (201 m<sup>3</sup>/s) Apr. 2, 1958 (gage height, 10.50 ft or 3.200 m); no flow at times in most years.

Flood of Dec. 23, 1955, reached a stage of 11.7 ft (3.57 m), from floodmarks (discharge, 6,930 ft<sup>3</sup>/s or 196 m<sup>3</sup>/s by slope-area measurement of peak flow).

REMARKS.--Records good. Flow regulated by Los Padres Reservoir 11 mi (18 km) upstream, capacity, 3,000 acre-ft (3.70 hm<sup>3</sup>) and San Clemente Reservoir 4 mi (6 km) upstream, capacity, 2,150 acre-ft (2.65 hm<sup>3</sup>). Diversion from San Clemente Reservoir for municipal supply amounted to 8,600 acre-ft (10.6 hm<sup>3</sup>) for the current year.

REVISIONS.--WSP 1715: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.21	1.3	2.8	39	845	100	301	116	40	7.5	.97	.69
2	.36	.97	2.2	36	2890	96	277	113	39	8.7	.78	.49
3	.56	.84	15	35	801	93	264	108	39	9.0	.67	.43
4	.46	.84	49	34	539	89	254	108	37	9.3	.78	.40
5	.46	.84	22	33	437	89	311	105	35	14	.84	.39
6	.46	.72	17	31	318	125	274	103	35	11	.79	.37
7	.67	.72	15	35	274	1670	254	101	33	11	.63	.35
8	.61	.84	14	35	237	1760	247	98	31	10	.47	.38
9	.67	.72	14	36	710	1050	234	93	44	9.3	.42	.45
10	.61	1.2	13	34	1110	795	221	90	11	8.2	.40	.57
11	.56	1.4	12	33	682	807	211	89	7.8	7.4	.52	.62
12	.51	1.4	12	30	451	627	202	86	6.5	6.3	.53	.52
13	.36	1.2	12	30	530	600	193	84	5.9	6.5	.50	.42
14	.32	1.1	15	28	487	654	187	83	5.0	6.3	.60	.48
15	.28	1.1	17	27	371	554	187	82	4.7	6.7	.61	.52
16	.21	1.4	17	25	308	740	190	79	4.9	6.3	.58	.49
17	.14	1.7	16	24	264	590	184	75	5.2	6.5	.58	.47
18	.11	2.0	15	23	237	515	173	71	4.6	5.9	.73	.48
19	.04	1.7	13	22	221	460	168	68	4.3	5.7	1.1	.47
20	.04	1.5	12	21	208	416	160	65	4.3	4.0	.97	.50
21	.06	3.1	13	21	184	403	152	64	4.6	3.7	.80	.46
22	.24	2.4	13	19	165	1120	145	62	4.7	3.4	.67	.44
23	.36	2.0	13	19	150	722	140	60	10	2.8	.62	.44
24	.46	1.8	12	18	140	595	138	57	16	2.4	.59	.36
25	.51	1.7	12	18	129	665	142	54	18	1.8	.63	.34
26	.46	1.8	12	17	121	559	130	51	18	1.5	.74	.33
27	.41	1.8	14	17	113	487	123	48	18	1.6	.76	.35
28	1.9	1.8	71	16	107	433	125	47	15	1.6	.72	.39
29	3.2	1.8	69	17	---	387	122	44	14	1.4	.69	.48
30	1.4	2.6	53	17	---	355	119	43	11	1.3	.70	.55
31	1.3	---	46	19	---	329	---	41	---	1.3	.71	---
TOTAL	17.94	44.29	633.0	809	13029	17885	5828	2388	526.5	182.4	21.10	13.63
MEAN	.58	1.48	20.4	26.1	465	577	194	77.0	17.6	5.88	.68	.45
MAX	3.2	3.1	71	39	2890	1760	311	116	44	14	1.1	.69
MIN	.04	.72	2.2	16	107	89	119	41	4.3	1.3	.40	.33
AC-FT	36	88	1260	1600	25840	35470	11560	4740	1040	362	42	27
CAL YR 1974 TOTAL	37696.07			MEAN 103	MAX 2100	MIN .03	AC-FT 74770					
WTR YR 1975 TOTAL	41377.86			MEAN 113	MAX 2890	MIN .04	AC-FT 82070					

## CARMEL RIVER BASIN

11143250 CARMEL RIVER NEAR CARMEL, CALIF.

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

DRAINAGE AREA.--246 mi<sup>2</sup> (637 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE (unadjusted).--13 years, 103 ft<sup>3</sup>/s (2.917 m<sup>3</sup>/s), 74,620 acre-ft/yr (92.0 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 4,300 ft<sup>3</sup>/s (122 m<sup>3</sup>/s) Feb. 2 (gage height, unknown); minimum daily, 0.04 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Sept. 5-8, 15, 21.

Period of record: Maximum discharge, 8,620 ft<sup>3</sup>/s (244 m<sup>3</sup>/s) Jan. 26, 1969 (gage height, 17.30 ft or 5.273 m in gage well, 17.4 ft or 5.30 m, from floodmarks); no flow at times in most years.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by Los Padres Reservoir, capacity, 3,000 acre-ft (3.70 hm<sup>3</sup>) and San Clemente Reservoir, capacity, 2,150 acre-ft (2.65 hm<sup>3</sup>). Diversion from San Clemente Reservoir for municipal supply amounted to 8,600 acre-ft (10.6 hm<sup>3</sup>) for the current year.

REVISIONS (WATER YEARS).--WRD Calif. 1969: 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.35	.79	38	121	128	395	133	62	6.3	.24	.10
2	.49	.29	1.0	36	3400	120	370	131	62	4.1	.19	.10
3	.79	.24	3.0	34	1100	115	345	127	62	3.4	.18	.10
4	.49	.24	1.2	33	670	112	320	127	59	3.0	.22	.07
5	.42	.24	1.2	33	441	110	395	126	56	2.8	.27	.04
6	.58	.24	.91	31	373	600	360	124	52	4.9	.32	.04
7	.68	.24	.75	33	314	2840	325	120	52	4.3	.32	.04
8	.68	.24	.91	36	276	1620	305	118	49	4.6	.32	.04
9	.58	.24	.79	38	900	907	290	114	48	4.1	.31	.07
10	.58	.35	.68	39	1400	730	275	110	56	3.2	.29	.10
11	.49	.35	.68	36	780	765	260	108	21	2.5	.27	.10
12	.42	.35	.58	35	550	649	250	106	13	2.1	.26	.07
13	.35	.35	.58	33	640	645	240	102	8.5	1.7	.21	.07
14	.29	.49	.49	32	560	737	235	101	6.7	1.6	.19	.06
15	.29	.42	.58	31	446	645	215	101	5.4	1.6	.16	.04
16	.29	.42	.58	29	400	768	205	99	4.6	1.6	.16	.08
17	.29	.42	.58	28	349	664	195	97	3.9	1.3	.16	.10
18	.20	.35	.58	27	305	611	185	94	3.2	1.3	.21	.08
19	.20	.35	.68	26	270	574	180	92	2.6	1.2	.24	.07
20	.20	.35	.58	25	251	530	172	88	2.3	1.2	.28	.05
21	.16	1.0	.58	25	229	507	165	88	2.0	1.0	.21	.04
22	.16	.91	.58	24	207	1030	160	87	1.6	.82	.23	.07
23	.16	.91	.49	23	192	765	150	85	1.4	.68	.23	.12
24	.16	1.2	.35	23	178	671	160	83	1.2	.56	.21	.16
25	.20	1.2	.35	21	165	737	148	80	2.1	.44	.19	.13
26	.12	1.2	.35	20	155	698	144	74	8.5	.38	.16	.14
27	.12	1.2	1.3	20	145	605	140	73	12	.40	.15	.17
28	.24	1.0	.21	19	133	562	140	71	13	.39	.15	.16
29	.35	.91	.49	19	---	516	138	68	9.4	.36	.14	.12
30	.24	.79	.43	19	---	484	135	65	8.1	.33	.13	.10
31	.29	---	.42	19	---	435	---	63	---	.30	.11	---
TOTAL	10.71	16.84	176.14	885	14950	20840	6997	3055	688.5	62.46	6.71	2.63
MEAN	.35	.56	5.68	28.5	534	672	233	98.5	23.0	2.01	.22	.088
MAX	.79	1.2	.49	39	3400	2840	395	133	62	6.3	.32	.17
MIN	.12	.24	.35	19	121	110	135	63	1.2	.30	.11	.04
AC=FT	21	33	349	1760	29650	41340	13880	6060	1370	124	13	5.2
CAL YR 1974	TOTAL	40798.86	MEAN	112	MAX	1860	MIN	.12	AC=FT	80920		
WTR YR 1975	TOTAL	47690.99	MEAN	131	MAX	3400	MIN	.04	AC=FT	94600		

NOTE.--No gage-height record Feb. 2 to Mar. 7.

## 11143300 ARROYO DEL REY AT DEL REY OAKS, CALIF.

LOCATION.--Lat 36°35'38", long 121°50'12", in Noche Buena Grant, Monterey County, on right bank in Del Rey Park, at Del Rey Oaks, 0.1 mi (0.2 km) downstream from State Highway 218. Prior to Dec. 23, 1974, at site 0.4 mi (0.6 km) downstream.

DRAINAGE AREA.--13.8 mi<sup>2</sup> (35.7 km<sup>2</sup>). Area at site used prior to Dec. 23, 1974, 14.2 mi<sup>2</sup> (36.8 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--9 years, 0.73 ft<sup>3</sup>/s (0.0207 m<sup>3</sup>/s), 529 acre-ft/yr (652,000 m<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Feb. 1 (gage height, 3.30 ft or 1.006 m); minimum daily, 0.02 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) for several days.

Period of record: Maximum discharge, 64 ft<sup>3</sup>/s (1.81 m<sup>3</sup>/s) Jan. 3, 1974 (gage height, 4.24 ft or 1.292 m, site and datum then in use), from rating curve extended above 26 ft<sup>3</sup>/s (0.736 m<sup>3</sup>/s); no flow at times.

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

REVISIONS (WATER YEARS).--WRD Calif. 1971: 1967.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	.08	.09	.19	1.7	.14	.24	.07	.02	.05	.02	.25
2	.21	.06	.90	.12	1.9	.13	.20	.06	.08	.06	.03	.06
3	.06	.06	1.5	.14	.46	.13	.17	.06	.06	.10	.03	.05
4	.05	.06	.59	.12	.44	.13	.21	.05	.04	.05	.03	.05
5	.05	.06	.22	.12	.38	.33	.51	.05	.08	.10	.04	.05
6	.05	.06	.10	.29	.35	.24	.40	.04	.07	.17	.03	.05
7	.08	.29	.10	.22	.78	4.2	.25	.04	.04	.13	.04	.17
8	.06	.12	.10	.40	.65	1.4	.27	.04	.04	.12	.03	.30
9	.06	.09	.10	.20	1.2	.70	.26	.05	.04	.10	.04	.47
10	.06	.09	.10	.15	1.7	.84	.22	.04	.04	.07	.04	.53
11	.06	.08	.11	.14	.42	1.3	.19	.05	.05	.08	.04	.09
12	.06	.08	.11	.13	.39	.59	.14	.03	.06	.24	.04	.06
13	.05	.08	.11	.12	2.6	1.0	.13	.04	.06	.06	.04	.06
14	.05	.08	.11	.12	.63	1.7	.16	.04	.08	.02	.09	.06
15	.05	.08	.11	.12	.32	.59	.70	.05	.04	.04	.04	.06
16	.05	.09	.11	.12	.24	1.4	.38	.05	.04	.03	.03	.06
17	.05	.39	.11	.12	.20	.42	.19	.19	.04	.02	.04	.06
18	.06	.75	.12	.12	.19	.30	.14	.08	.04	.02	.24	.05
19	.06	.22	.12	.12	.23	.42	.13	.03	.05	.02	.05	.06
20	.06	.09	.13	.12	.21	.36	.12	.05	.06	.02	.12	.06
21	.06	.59	.13	.12	.18	.56	.12	.09	.10	.02	.04	.07
22	.06	.09	.12	.12	.16	2.2	.09	.08	.15	.02	.04	.07
23	.06	.09	.11	.12	.15	.89	.09	.06	.04	.02	.04	.07
24	.05	.09	.10	.12	.15	.56	.10	.05	.04	.02	.25	.07
25	.04	.09	.10	.12	.15	1.3	.12	.05	.04	.02	.54	.05
26	.04	.09	.10	.12	.15	.63	.08	.06	.04	.02	.14	.05
27	.04	.09	.51	.12	.15	.39	.07	.06	.06	.02	.05	.05
28	.75	.09	.65	.11	.15	.27	.07	.03	.05	.04	.04	.05
29	.22	.09	.20	.21	---	.21	.06	.28	.05	.02	.04	.05
30	.05	.09	.21	.58	---	.17	.06	.61	.05	.02	.04	.04
31	.11	---	.35	.31	---	.16	---	.04	---	.02	.14	---
TOTAL	2.76	4.31	7.52	5.23	16.23	23.66	5.87	2.52	1.65	1.74	2.42	3.17
MEAN	.089	.14	.24	.17	.58	.76	.20	.081	.055	.056	.078	.11
MAX	.75	.75	1.5	.58	2.6	4.2	.70	.61	.15	.24	.54	.53
MIN	.04	.06	.09	.11	.15	.13	.06	.03	.02	.02	.02	.04
AC-FT	5.5	8.5	15	10	32	47	12	5.0	3.3	3.5	4.8	6.3
CAL YR 1974	TOTAL 249.39	MEAN .68	MAX	22	MIN .02	AC-FT 495						
WTR YR 1975	TOTAL 77.08	MEAN .21	MAX	4.2	MIN .02	AC-FT 153						

Peak discharge (base, 18 ft<sup>3</sup>/s).--No peak above base.

## SALINAS RIVER BASIN

11143500 SALINAS RIVER NEAR POZO, CALIF.

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

DRAINAGE AREA.--70.3 mi<sup>2</sup> (182.1 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--33 years, 17.0 ft<sup>3</sup>/s (0.481 m<sup>3</sup>/s), 12,320 acre-ft/yr (15.2 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 450 ft<sup>3</sup>/s (12.7 m<sup>3</sup>/s) Feb. 10 (gage height, 12.45 ft or 3.795 m), from rating curve extended above 510 ft<sup>3</sup>/s (14.4 m<sup>3</sup>/s); minimum daily, 0.20 ft<sup>3</sup>/s (0.006 m<sup>3</sup>/s) Sept. 21, 22. Period of record: Maximum discharge, 18,600 ft<sup>3</sup>/s (527 m<sup>3</sup>/s) Jan. 25, 1969 (gage height, 13.90 ft or 4.237 m in gage well, 15.5 ft or 4.72 m, site then in use, from floodmarks), from rating curve extended above 7,100 ft<sup>3</sup>/s (201 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times.

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

REVISIONS (WATER YEARS).--WSP 1565: 1943(M). WRD Calif. 1974: 1973.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.83	1.6	1.9	2.5	3.8	4.2	10	8.9	2.1	1.4	.74	.38
2	1.1	1.4	2.0	2.4	39	4.2	8.9	8.9	2.4	1.4	.63	.45
3	1.2	1.6	3.2	2.5	6.4	4.4	9.2	8.9	2.2	1.4	.70	.48
4	1.3	1.4	4.0	2.3	7.7	4.0	8.9	6.6	2.2	1.3	.64	.40
5	1.6	1.5	2.8	2.3	6.1	4.2	35	5.4	2.2	1.3	.53	.37
6	1.7	1.4	2.5	2.3	5.6	7.4	20	4.4	2.2	1.3	.53	.31
7	1.7	1.4	2.4	2.1	5.2	50	19	4.1	2.3	1.3	.52	.27
8	2.0	1.4	2.5	2.3	5.2	90	17	4.0	2.2	1.3	.51	.48
9	2.0	1.4	2.7	2.1	11	28	14	4.1	2.4	1.1	.50	.63
10	2.0	1.3	3.0	2.1	172	25	14	4.1	2.5	.95	.49	.72
11	2.0	1.3	3.0	2.1	37	30	12	4.2	2.5	.96	.49	.73
12	1.8	1.2	2.8	2.1	18	24	11	4.3	2.3	.91	.48	.62
13	2.1	1.2	3.0	2.5	14	20	10	4.4	2.2	.89	.47	.64
14	1.8	1.1	3.1	2.3	14	27	10	4.4	2.9	.86	.46	.60
15	2.1	1.1	3.1	2.5	11	22	10	4.2	3.1	.87	.53	.63
16	2.5	1.0	3.0	2.5	9.4	23	8.9	4.0	2.7	.76	.53	.63
17	2.3	1.0	2.6	2.5	8.9	20	8.6	4.0	2.6	.82	.45	.48
18	2.1	.94	2.6	2.5	8.3	17	8.9	3.8	2.6	.81	.38	.26
19	2.1	1.1	2.5	2.1	7.2	15	7.4	3.6	2.5	.73	.53	.25
20	2.1	1.2	2.7	2.1	6.6	14	7.4	3.4	2.4	.75	.45	.27
21	2.3	1.5	2.6	2.1	5.4	13	8.9	3.4	2.4	.77	.31	.20
22	2.3	1.4	2.6	2.1	4.9	60	8.9	3.2	2.2	.79	.31	.20
23	2.3	1.4	2.5	2.1	4.2	28	8.9	3.2	1.9	.90	.31	.22
24	2.3	1.3	2.5	2.0	4.4	21	8.6	3.0	1.9	.65	.45	.25
25	6.1	1.7	2.4	2.0	4.4	19	8.3	3.0	1.9	.50	.31	.24
26	6.1	2.1	2.4	1.8	4.2	16	7.4	2.8	1.8	.64	.45	.25
27	6.1	2.3	3.6	1.8	3.8	14	7.4	3.0	1.8	.63	.53	.28
28	5.9	2.1	6.4	1.8	4.0	13	7.2	2.8	1.7	.72	.45	.26
29	5.6	2.1	3.4	2.0	---	12	7.4	2.6	1.6	.93	.45	.32
30	2.9	1.9	3.0	1.8	---	11	9.2	2.1	1.4	.83	.31	.40
31	1.6	---	2.7	2.0	---	11	---	2.1	---	.59	.31	---
TOTAL	79.83	43.34	89.5	67.6	431.7	651.4	332.4	130.9	67.1	29.06	14.75	12.22
MEAN	2.58	1.44	2.89	2.18	15.4	21.0	11.1	4.22	2.24	.94	.48	.41
MAX	6.1	2.3	6.4	2.5	172	90	35	8.9	3.1	1.4	.74	.73
MIN	.83	.94	1.9	1.8	3.8	4.0	7.2	2.1	1.4	.50	.31	.20
AC-FT	158	86	178	134	856	1290	659	260	133	58	29	24

CAL YR 1974 TOTAL 4843.67 MEAN 13.3 MAX 1150 MIN .62 AC-FT 9610  
WTR YR 1975 TOTAL 1949.80 MEAN 5.34 MAX 172 MIN .20 AC-FT 3870

Peak discharge (base, 300 ft<sup>3</sup>/s).--Feb. 10 (0900) 450 ft<sup>3</sup>/s (12.45 ft).



## SALINAS RIVER BASIN

45

11144000 TORO CREEK NEAR POZO, CALIF.

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

DRAINAGE AREA.--9.56 mi<sup>2</sup> (24.76 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--12 years (1961-69, 1970-75), 0.81 ft<sup>3</sup>/s (0.0229 m<sup>3</sup>/s), 587 acre-ft/yr (724,000 m<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 38 ft<sup>3</sup>/s (1.08 m<sup>3</sup>/s) Dec. 3 (gage height, 4.40 ft or 1.341 m), from rating curve extended above 1.5 ft<sup>3</sup>/s (0.042 m<sup>3</sup>/s) as explained below; minimum daily, 0.06 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) July 16.

Period of record: Maximum discharge, 2,400 ft<sup>3</sup>/s (68.0 m<sup>3</sup>/s) Feb. 24, 1969 (gage height, 8.3 ft or 2.53 m, from floodmarks), from rating curve extended above 30 ft<sup>3</sup>/s (0.850 m<sup>3</sup>/s) on basis of slope-area measurements at gage heights 5.11 ft (1.558 m) and 7.3 ft (2.23 m); no flow at times.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.77	.66	.66	2.1	.55	.66	.66	.44	.24	.16	.24
2	.30	.77	.66	.66	4.7	.55	.66	.66	.47	.19	.09	.27
3	.37	.77	4.7	.66	1.2	.55	.66	.66	.51	.36	.15	.30
4	.30	.77	1.6	.66	1.4	.55	.66	.66	.50	.34	.17	.25
5	.37	.77	.77	.66	1.0	.90	1.8	.55	.48	.30	.08	.23
6	.37	.66	.55	.66	.90	1.4	.77	.60	.49	.22	.30	.21
7	.37	.77	.55	.66	.77	4.5	.77	.62	.48	.17	.24	.18
8	.46	.77	.37	.77	1.0	1.8	.66	.59	.25	.17	.28	.28
9	.30	.77	.46	.66	1.4	.90	.66	.60	.33	.18	.19	.40
10	.37	.66	.46	.66	1.8	1.2	.66	.56	.32	.24	.28	.46
11	.37	.55	.46	.66	.77	.77	.66	.54	.30	.22	.38	.47
12	.37	.55	.46	.66	.77	.66	.66	.54	.31	.20	.31	.40
13	.24	.55	.46	.66	.90	.77	.66	.54	.26	.24	.34	.41
14	.30	.77	.46	.66	.77	.66	.66	.55	.25	.30	.24	.39
15	.30	.77	.46	.66	.66	.66	.30	.56	.21	.28	.19	.41
16	.30	.90	.55	.66	.66	.77	.37	.55	.27	.06	.16	.42
17	.30	.90	.55	.66	.66	.66	.46	.52	.32	.21	.11	.32
18	.24	.90	.46	.66	.66	.55	.55	.52	.29	.13	.17	.17
19	.30	.90	.46	.66	.66	.55	.66	.55	.32	.18	.27	.16
20	.37	.77	.46	.37	.66	.66	.66	.57	.28	.09	.15	.17
21	.37	1.0	.55	.77	.66	.66	.66	.44	.28	.14	.20	.14
22	.37	.77	.46	.37	.46	.90	.66	.52	.26	.10	.22	.13
23	.37	.55	.46	.66	.66	.66	.66	.50	.31	.15	.25	.14
24	.46	.37	.46	.46	.66	.66	.66	.49	.33	.20	.28	.16
25	.46	.55	.46	.66	.55	.66	.55	.46	.34	.17	.20	.16
26	.55	.66	.46	.66	.55	.66	.66	.46	.32	.14	.27	.17
27	.30	1.4	.90	.77	.55	.66	.66	.43	.32	.17	.34	.18
28	1.0	.90	2.6	.66	.55	.46	.66	.43	.34	.18	.29	.18
29	.90	.77	.90	.66	---	.55	.66	.42	.29	.20	.29	.21
30	.66	.66	.77	.77	---	.66	.66	.37	.21	.18	.20	.24
31	.55	---	.66	.90	---	.77	---	.42	---	.19	.20	---
TOTAL	12.47	22.67	24.24	20.36	28.08	26.91	20.09	16.54	10.08	6.14	7.00	7.85
MEAN	.40	.76	.78	.66	1.00	.87	.67	.53	.34	.20	.23	.26
MAX	1.0	1.4	4.7	.90	4.7	4.5	1.8	.66	.51	.36	.38	.47
MIN	.18	.37	.37	.37	.46	.46	.30	.37	.21	.06	.08	.13
AC-FT	25	45	48	40	56	53	40	33	20	12	14	16

CAL YR 1974 TOTAL 206.04 MEAN .56 MAX 7.7 MIN .04 AC-FT 409  
WTR YR 1975 TOTAL 202.43 MEAN .55 MAX 4.7 MIN .06 AC-FT 402

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
12-3	2145	4.40	38	2-3	0645	4.25	27
12-28	1615	4.17	22	3-7	1630	4.14	21

NOTE.--No gage-height record Aug. 21 to Sept. 30.

## SALINAS RIVER BASIN

11144200 SALSIPUEDES CREEK NEAR POZO, CALIF.

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

DRAINAGE AREA.--5.91 mi<sup>2</sup> (15.31 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--6 years, 1.74 ft<sup>3</sup>/s (0.0493 m<sup>3</sup>/s), 1,260 acre-ft/yr (1.55 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 340 ft<sup>3</sup>/s (9.63 m<sup>3</sup>/s) Feb. 2 (gage height, 3.10 ft or 0.945 m), from rating curve extended as explained below; no flow for long periods.

Period of record: Maximum discharge, 1,010 ft<sup>3</sup>/s (28.6 m<sup>3</sup>/s) Jan. 18, 1973 (gage height, 4.58 ft or 1.396 m), from rating curve extended above 67 ft<sup>3</sup>/s (1.90 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow for long periods in each year.

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

REVISIONS (WATER YEARS).--WRD Calif. 1972: 1970-71(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.02	2.0	.26	1.1	.53	.07	.03	.01	
2			0	.01	53	.24	.89	.49	.06	.04	.01	
3			.63	.01	4.5	.22	.83	.45	.04	.03	0	
4			.06	.02	23	.20	.83	.40	.03	.03	0	
5			.01	.02	6.9	.36	16	.37	.03	.03	0	
6			.01	.03	3.3	4.3	7.3	.36	.03	.04	0	
7			.01	.03	2.0	49	4.4	.32	.02	.03	0	
8			.01	.04	4.8	21	3.1	.30	.02	.02	0	
9			.01	.04	30	7.4	2.6	.28	.02	.02	0	
10			.01	.04	23	9.5	2.3	.26	.02	.02	0	
11			.01	.04	5.5	6.5	2.2	.24	.02	.02	0	
12			.01	.04	3.3	3.9	1.9	.22	.02	.03	0	
13			.01	.06	4.3	6.1	1.8	.20	.02	.10	0	
14			.01	.06	3.6	4.9	1.7	.18	.02	.11	0	
15			.01	.04	2.5	3.1	1.9	.18	.02	.02	0	
16			.01	.04	1.6	6.3	1.8	.18	.02	.02	0	
17			.01	.04	1.3	3.4	1.5	.18	.02	.02	0	
18			.01	.04	1.1	2.8	1.2	.18	.02	.02	0	
19			.01	.04	.94	2.5	1.0	.18	.02	.01	0	
20			.01	.04	.94	2.2	.97	.18	.02	.01	0	
21			.01	.06	.73	1.9	.95	.22	.02	.01	0	
22			.01	.04	.65	9.2	.86	.22	.02	.02	0	
23			.01	.04	.55	3.9	.78	.18	.02	.02	0	
24			.01	.04	.47	2.8	1.1	.18	.02	.03	0	
25			.02	.06	.41	2.8	2.0	.18	.02	.04	0	
26			.02	.06	.36	2.2	1.3	.18	.02	.03	0	
27			.03	.06	.32	2.0	.82	.18	.03	.01	0	
28			7.0	.08	.29	1.7	.72	.14	.03	.01	0	
29			.94	.08	---	1.3	.65	.11	.03	.01	0	
30			.08	.08	---	1.2	.61	.10	.03	.02	0	
31		---	.02	.11	---	1.2	---	.09	---	.03	0	---
TOTAL	0	0	9.00	1.41	181.36	164.38	65.11	7.46	.78	.88	.02	0
MEAN	0	0	.29	.046	6.48	5.30	2.17	.24	.026	.028	.0006	0
MAX	0	0	7.0	.11	53	49	16	.53	.07	.11	.01	0
MIN	0	0	0	.01	.29	.20	.61	.09	.02	.01	0	0
AC-FT	0	0	18	2.8	360	326	129	15	1.5	1.7	.04	0
CAL YR 1974	TOTAL	1071.43	MEAN 2.94	MAX 187	MIN 0	AC-FT 2130						
WTR YR 1975	TOTAL	430.40	MEAN 1.18	MAX 53	MIN 0	AC-FT 854						

Peak discharge (base, 25 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
12-28	1730	2.32	147	2-9	0630	1.84	72
2-2	0645	3.10	340	3-7	1645	3.03	313
2-4	1215	1.70	56	4-5	1000	1.55	37

## SALINAS RIVER BASIN

47

11144500 SANTA MARGARITA LAKE NEAR POZO, CALIF.

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

DRAINAGE AREA.--112 mi<sup>2</sup> (290 km<sup>2</sup>).

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

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

EXTREMES.--Current year: Maximum contents, 25,800 acre-ft (31.8 hm<sup>3</sup>) Apr. 29, 30 (elevation, 1,300.69 ft or 396.450 m); minimum, 19,000 acre-ft (23.4 hm<sup>3</sup>) Jan. 29-31.

Period of record: Maximum contents, 37,000 acre-ft (45.6 hm<sup>3</sup>) Jan. 25, 1969 (elevation, 1,313.30 ft or 400.294 m); minimum, 1,730 acre-ft (2.13 hm<sup>3</sup>) Nov. 6-10, 1943.

REMARKS.--Reservoir is formed by concrete-arch dam, outlet closed Dec. 6, 1941. Usable capacity, 26,000 acre-ft (32.1 hm<sup>3</sup>) between elevations 1,220.3 ft (371.95 m), bottom of outlet pipe and 1,301.0 ft (396.54 m), spillway crest, above mean sea level. Water diverted at dam into pipeline to small reservoir 10 mi (16 km) below, from which it is pumped to Camp San Luis Obispo and city of San Luis Obispo for water supply; water is also released down natural channel of river. Figures given herein represent usable contents.

REVISIONS.--WSP 1715: Drainage area.

## CAPACITY TABLE (ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET)

1,220.3	0	1,245	2,100	1,270	8,650	1,295	21,700
1,225	210	1,250	3,000	1,275	10,600	1,300	25,200
1,230	510	1,255	4,100	1,280	12,800	1,310	33,700
1,235	880	1,260	5,400	1,285	15,300	1,320	44,400
1,240	1,400	1,265	6,900	1,290	18,300	1,325	50,400

 CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
 INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20900	20200	19800	19700	19200	21600	24700	25800	24800	23400	22300	21100
2	20900	20200	19700	19700	19900	21600	24700	25800	24700	23300	22200	21000
3	20800	20200	19900	19700	20000	21700	24700	25800	24700	23300	22200	21000
4	20800	20100	19900	19700	20200	21700	24800	25700	24600	23300	22100	21000
5	20800	20100	19900	19700	20300	21700	25100	25700	24600	23200	22100	20900
6	20800	20100	19900	19600	20300	21800	25200	25700	24500	23200	22000	20900
7	20700	20100	19900	19600	20300	22400	25300	25700	24400	23200	22000	20900
8	20700	20100	19900	19600	20400	22800	25400	25700	24400	23100	22000	20900
9	20700	20000	19900	19600	20500	23000	25400	25700	24300	23100	21900	20800
10	20700	20000	19900	19600	20800	23100	25500	25700	24300	23100	21900	20800
11	20600	20000	19900	19500	21200	23300	25500	25700	24200	23000	21800	20800
12	20600	20000	19800	19500	21300	23300	25500	25600	24100	23000	21800	20700
13	20600	20000	19800	19500	21400	23400	25600	25600	24100	23000	21800	20700
14	20600	20000	19800	19400	21400	23500	25600	25600	24000	22900	21700	20700
15	20500	20000	19800	19400	21500	23600	25600	25600	24000	22900	21700	20600
16	20500	19900	19800	19400	21500	23700	25700	25600	23900	22900	21700	20600
17	20500	19900	19800	19300	21500	23800	25700	25500	23900	22800	21600	20600
18	20400	19900	19800	19300	21600	23800	25700	25500	23800	22800	21600	20500
19	20400	19900	19700	19300	21600	23900	25700	25500	23800	22800	21500	20500
20	20400	19800	19700	19200	21600	23900	25800	25500	23800	22700	21500	20500
21	20400	19900	19700	19200	21600	24000	25800	25500	23800	22700	21500	20400
22	20300	19800	19700	19200	21600	24100	25800	25400	23700	22700	21400	20400
23	20300	19800	19600	19100	21600	24300	25800	25300	23700	22600	21400	20400
24	20300	19800	19600	19100	21600	24400	25800	25300	23700	22600	21400	20300
25	20300	19800	19600	19100	21600	24500	25800	25200	23600	22500	21300	20300
26	20200	19800	19600	19100	21600	24600	25800	25200	23600	22500	21300	20300
27	20200	19800	19600	19100	21600	24600	25800	25100	23500	22400	21200	20200
28	20200	19800	19800	19100	21600	24700	25800	25100	23500	22400	21200	20200
29	20200	19800	19800	19000	---	24700	25800	25000	23500	22400	21200	20200
30	20200	19800	19800	19000	---	24700	25800	25000	23400	22300	21100	20100
31	20200	---	19800	19000	---	24700	---	24900	---	22300	21100	---
MAX	20900	20200	19900	19700	21600	24700	25800	25800	24800	23400	22300	21100
MIN	20200	19800	19600	19000	19200	21600	24700	24900	23400	22300	21100	20100
(a)	1,292.85	1,292.22	1,292.22	1,291.20	1,294.85	1,299.31	1,300.75	1,299.57	1,297.47	1,295.86	1,294.14	1,292.73
(b)	-700	-400	0	-800	+2,600	+3,100	+1,100	-900	-1,500	-1,100	-1,200	-1,000
(c)	513	378	336	392	303	308	330	565	591	652	674	556
CAL YR 1974	b	0	c	5,250								
WTR YR 1975	b	-800	c	5,600								

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet.

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

## SALINAS RIVER BASIN

11144600 SALINAS RIVER BELOW SALINAS DAM, NEAR POZO, CALIF.

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

DRAINAGE AREA.--112 mi<sup>2</sup> (290 km<sup>2</sup>).

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

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

EXTREMES.--Current year: Maximum discharge, 35 ft<sup>3</sup>/s (0.99 m<sup>3</sup>/s) July 16 (gage height, 2.52 ft or 0.768 m); no flow for several days.

Period of record: Maximum discharge, 652 ft<sup>3</sup>/s (18.5 m<sup>3</sup>/s) Mar. 4, 1974 (gage height, 4.67 ft or 1.423 m); no flow for several days in 1975.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.71	.65	.65	3.4	2.0	.01	.02	.01	15	1.2	.26	.20
2	.71	.65	.83	3.4	2.4	.01	.01	.01	15	1.3	.26	.20
3	.71	.65	.83	5.4	.94	.01	.01	.01	16	1.2	.26	.33
4	.71	.65	.71	6.7	.15	.02	.02	.01	16	1.2	.29	.50
5	.71	.65	.65	6.5	.08	.05	.18	.01	15	1.2	.29	.18
6	.71	.65	.60	6.5	.05	.09	.06	.01	15	1.2	.29	.15
7	.65	.65	.55	6.5	.02	.36	.03	.01	16	1.3	.29	.15
8	.65	.65	.55	6.5	.02	.18	.02	0	15	1.3	.26	.15
9	.65	.71	.55	9.9	.09	.09	.02	0	16	1.2	.29	.15
10	.65	.65	1.1	12	.12	.08	.02	0	16	.90	.29	.15
11	.65	.65	1.5	11	.06	.06	.01	0	15	.71	.26	.15
12	.65	1.0	1.7	11	.03	.05	.01	0	16	.77	.26	.15
13	.65	.65	2.0	11	.02	.06	.01	0	16	.83	.29	.15
14	.65	.65	2.0	11	.01	.06	.14	0	16	1.3	.29	.15
15	.97	.65	2.0	11	.01	.02	.03	0	16	.90	.26	.15
16	.65	.65	2.7	11	.01	.02	.01	0	7.7	1.5	.29	.15
17	.60	.65	2.9	11	.01	.02	.01	0	3.5	.90	.33	.18
18	1.1	.71	2.9	11	.01	.02	.01	0	2.1	.77	.29	.18
19	.65	.71	2.9	11	.01	.02	.01	0	1.4	.77	.71	.18
20	.71	.71	2.9	11	.01	.02	.01	0	1.3	.83	.26	.18
21	.65	.77	2.9	11	.01	.01	.01	12	1.3	.77	.23	.18
22	.65	.71	2.9	6.0	0	.05	.01	18	1.3	.77	.23	.18
23	.71	.71	2.9	2.9	0	.02	.18	17	1.2	.55	.23	.18
24	.71	.71	2.9	2.7	0	.01	.05	17	1.2	.33	.23	.15
25	.77	.90	2.9	2.0	0	.02	.02	17	1.3	.26	.23	.15
26	.83	.71	2.9	2.0	0	.06	.02	16	1.3	.29	.33	.18
27	.71	.71	3.4	1.9	.01	.08	.01	16	1.3	.29	.20	.18
28	.90	.65	3.5	1.9	.01	.08	.01	16	1.3	.29	.20	.15
29	.71	.60	3.4	1.9	---	.06	.02	16	1.4	.26	.20	.36
30	.65	.60	3.4	1.9	---	.06	.01	16	1.2	.26	.20	.33
31	.65	---	3.4	1.9	---	.14	---	16	---	.26	.20	---
TOTAL	22.08	20.66	65.02	212.9	6.08	1.84	.98	177.07	262.8	25.61	8.50	5.82
MEAN	.71	.69	2.10	6.87	.22	.059	.033	5.71	8.76	.83	.27	.19
MAX	1.1	1.0	3.5	12	2.4	.36	.18	18	16	1.5	.71	.50
MIN	.60	.60	.55	1.9	0	.01	.01	0	1.2	.26	.20	.15
AC-FT	44	41	129	422	12	3.6	1.9	351	521	51	17	12
CAL YR 1974 TOTAL	4682.32			12.8	520	.29	9290					
WTR YR 1975 TOTAL	809.36			2.22	18	0	1610					

## 11145000 SALINAS RIVER ABOVE PILITAS CREEK, NEAR SANTA MARGARITA, CALIF.

LOCATION.--Lat 35°20'56", long 120°30'42", in SW¼NE¼ sec.6, T.30 S., R.14 E., San Luis Obispo County, on downstream side of right bank bridge pier, 200 ft (61 m) upstream from Pilitas Creek, 2 mi (3 km) downstream from Salinas Dam, and 6 mi (10 km) southeast of Santa Margarita.

DRAINAGE AREA.--114 mi<sup>2</sup> (295 km<sup>2</sup>).

PERIOD OF RECORD.--July 1942 to September 1975 (discontinued).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,148.66 ft (350.112 m) above mean sea level.

AVERAGE DISCHARGE.--33 years, 18.0 ft<sup>3</sup>/s (0.510 m<sup>3</sup>/s), 13,040 acre-ft/yr (16.1 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 35 ft<sup>3</sup>/s (0.99 m<sup>3</sup>/s) July 16 (gage height, unknown); minimum daily, 0.01 ft<sup>3</sup>/s (<0.001 m<sup>3</sup>/s) Sept. 6-30.

Period of record: Maximum discharge, 16,600 ft<sup>3</sup>/s (470 m<sup>3</sup>/s) Jan. 25, 1969 (gage height, 14.90 ft or 4.542 m); no flow at times.

REMARKS.--Records poor. Flow regulated by Santa Margarita Lake 2 mi (3 km) upstream beginning in 1941 and water diverted to Camp San Luis Obispo and city of San Luis Obispo (see sta 11144500).

REVISIONS.--WSP 1715: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.39	.48	.49	3.1	1.9	.06	.45	.14	16	1.3	.06	.02
2	.40	.48	1.1	3.1	2.3	.10	.38	.14	16	1.4	.06	.02
3	.40	.48	1.1	5.0	1.8	.19	.38	.14	17	1.3	.06	.03
4	.40	.48	.92	6.2	1.4	.26	.60	.14	17	1.3	.06	.05
5	.40	.48	.85	5.9	.94	.44	.84	.14	16	1.3	.06	.02
6	.40	.48	.77	5.6	.60	.72	.30	.14	16	1.3	.06	.01
7	.37	.48	.74	5.4	.36	1.1	.15	.14	17	1.4	.06	.01
8	.36	.48	.73	6.0	.21	1.8	.10	.13	16	1.4	.06	.01
9	.36	.52	.73	8.0	.13	.96	.10	.13	17	1.2	.06	.01
10	.36	.48	1.2	11	.56	.50	.09	.13	17	.88	.06	.01
11	.36	.48	1.4	11	.40	.31	.05	.13	16	.73	.06	.01
12	.36	.72	1.7	10	.19	.25	.05	.13	17	.81	.06	.01
13	.37	.48	1.8	10	.09	.29	.09	.13	17	.90	.06	.01
14	.38	.48	1.8	10	.05	.29	.64	.13	17	1.2	.06	.01
15	.54	.48	1.9	10	.05	.15	.16	.13	15	.84	.06	.01
16	.36	.48	2.4	10	.05	.10	.05	.13	8.0	1.4	.06	.01
17	.34	.49	2.6	10	.05	.10	.05	.13	4.5	.86	.07	.01
18	.60	.52	2.7	10	.05	.10	.05	.13	2.1	.72	.06	.01
19	.45	.52	2.7	10	.05	.10	.05	.13	1.6	.72	.14	.01
20	.37	.53	2.7	10	.05	.08	.05	.13	1.4	.76	.08	.01
21	.36	.56	2.7	10	.05	.05	.05	13	1.4	.72	.02	.01
22	.38	.52	2.7	6.0	.05	.24	.05	19	1.4	.72	.02	.01
23	.40	.52	2.7	2.9	.05	.12	.83	18	1.3	.48	.02	.01
24	.41	.58	2.7	2.5	.05	.05	.66	18	1.3	.28	.02	.01
25	.43	.64	2.7	2.0	.05	.10	.29	18	1.4	.09	.03	.01
26	.46	.52	2.8	1.9	.05	.35	.29	17	1.4	.06	.03	.01
27	.40	.52	3.0	1.8	.05	.38	.15	17	1.4	.06	.02	.01
28	.65	.48	3.2	1.8	.05	.38	.15	17	1.4	.06	.02	.01
29	.54	.45	3.1	1.8	---	.29	.27	17	1.5	.06	.02	.01
30	.50	.44	3.1	1.8	---	.46	.14	17	1.3	.06	.02	.01
31	.49	---	3.1	1.8	---	.65	---	17	---	.06	.02	---
TOTAL	12.99	15.25	62.13	194.6	11.63	10.97	7.51	190.67	278.4	24.37	1.55	.39
MEAN	.42	.51	2.00	6.28	.42	.35	.25	6.15	9.28	.79	.050	.013
MAX	.65	.72	3.2	11	2.3	1.8	.84	.19	17	1.4	.14	.05
MIN	.34	.44	.49	1.8	.05	.05	.05	.13	1.3	.06	.02	.01
AC-FT	26	30	123	386	23	22	15	378	552	48	3.1	.8
CAL YR 1974 TOTAL	5067.22			MEAN 13.9	MAX 475	MIN .30	AC-FT 10050					
WTR YR 1975 TOTAL	810.46			MEAN 2.22	MAX 19	MIN .01	AC-FT 1610					

## SALINAS RIVER BASIN

11147000 JACK CREEK NEAR TEMPLETON, CALIF.

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

DRAINAGE AREA.--25.3 mi<sup>2</sup> (65.5 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--26 years, 14.6 ft<sup>3</sup>/s (0.413 m<sup>3</sup>/s), 10,580 acre-ft/yr (13.0 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,030 ft<sup>3</sup>/s (57.5 m<sup>3</sup>/s) Mar. 7 (gage height, 7.14 ft or 2.176 m); no flow many days.  
Period of record: Maximum discharge, 8,160 ft<sup>3</sup>/s (231 m<sup>3</sup>/s) Feb. 24, 1969 (gage height, 11.28 ft or 3.438 m), from rating curve extended above 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s) on basis of slope-area measurements at gage heights 6.50 ft (1.981 m) and 9.56 ft (2.914 m); no flow for several months in each year.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2			0	4.3	53	6.7	17	7.1	2.5	.62	.12	.01
3			0	3.2	437	6.4	15	7.1	2.5	.66	.11	.01
4			17	2.8	63	6.1	14	6.7	2.5	.66	.09	0
5			36	2.5	112	6.1	14	6.4	2.1	.66	.08	0
6			2.5	2.1	57	6.7	58	6.4	2.4	.66	.08	0
7			.66	2.1	29	19	37	6.1	2.4	.62	.08	0
8			.48	1.9	20	460	27	5.8	2.1	.55	.07	0
9			.43	1.9	40	170	23	5.8	2.1	.51	.05	0
10			.40	1.9	289	73	20	5.5	1.9	.48	.05	0
11			.38	1.6	228	70	18	5.5	1.9	.43	.04	0
12			.35	1.5	66	50	17	5.2	1.9	.40	.05	0
13			.35	1.3	39	37	16	4.9	1.6	.40	.05	0
14			.33	1.3	42	45	15	4.6	1.6	.43	.06	0
15			.31	1.3	34	48	14	4.3	1.6	.45	.07	0
16			.31	1.1	25	34	13	4.3	1.6	.45	.06	0
17			.31	1.1	21	59	13	4.3	1.6	.40	.06	0
18			.31	1.1	18	39	12	4.0	1.6	.35	.06	0
19			.31	.91	15	31	11	4.0	1.5	.35	.05	0
20			.33	.91	14	28	11	4.0	1.3	.35	.08	0
21			.33	.91	13	24	10	4.0	1.5	.33	.07	0
22			.33	.76	11	24	9.7	3.7	1.5	.31	.05	0
23			.33	.76	10	233	9.3	3.7	1.3	.29	.04	0
24			.33	.76	9.3	69	8.9	3.5	1.3	.26	.03	0
25			.33	.76	8.9	47	8.9	3.5	1.3	.24	.02	0
26			.35	.76	8.6	41	12	3.2	1.1	.21	.01	0
27			.58	.76	7.8	32	11	3.0	1.1	.18	.01	0
28			66	.76	7.4	28	8.9	3.0	.91	.16	.02	0
29			24	.76	7.1	24	8.2	2.8	.76	.18	.02	0
30			9.3	.76	---	22	7.8	2.8	.76	.19	.02	0
31		---	5.8	.91	---	19	7.4	2.5	.66	.18	.01	0
TOTAL	0	0	168.77	44.58	1685.1	1776.0	467.1	140.2	48.89	12.12	1.62	.02
MEAN	0	0	5.44	1.44	60.2	57.3	15.6	4.52	1.63	.39	.052	.0007
MAX	0	0	66	4.3	437	460	58	7.1	2.5	.66	.12	.01
MIN	0	0	0	.76	7.1	6.1	7.4	2.5	.66	.16	.01	0
AC-FT	0	0	335	88	3340	3520	926	278	97	24	3.2	.04

CAL YR 1974 TOTAL 6702.47 MEAN 18.4 MAX 850 MIN 0 AC-FT 13290  
WTR YR 1975 TOTAL 4344.40 MEAN 11.9 MAX 460 MIN 0 AC-FT 8620

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-2	0500	5.90	1,100	3-22	0145	5.27	740
3-7	1600	7.14	2,030				

## SALINAS RIVER BASIN

51

## 11147070 SANTA RITA CREEK NEAR TEMPLETON, CALIF.

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

DRAINAGE AREA.--18.2 mi<sup>2</sup> (47.1 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and rain gage. Altitude of gage is 860 ft (262 m), from topographic map. Auxiliary rain gage 5.3 mi (8.5 km) west of gage. Altitude of gage is 1,270 ft (387 m), from topographic map.

AVERAGE DISCHARGE.--14 years, 14.8 ft<sup>3</sup>/s (0.419 m<sup>3</sup>/s), 10,720 acre-ft/yr (13.2 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 960 ft<sup>3</sup>/s (27.2 m<sup>3</sup>/s) Mar. 7 (gage height, 6.67 ft or 2.033 m), from rating curve extended above 720 ft<sup>3</sup>/s (20.4 m<sup>3</sup>/s) as explained below; no flow for several months.  
Period of record: Maximum discharge, 6,060 ft<sup>3</sup>/s (172 m<sup>3</sup>/s) Jan. 19, 1969 (gage height, 11.12 ft or 3.389 m in gage well, 11.75 ft or 3.581 m, from floodmarks), from rating curve extended above 1,300 ft<sup>3</sup>/s (36.8 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow for several months in each year.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Some regulation and pumping above station.

REVISIONS (WATER YEARS).--WRD Calif. 1969: 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.62	1.4	1.6	19	4.4	9.4	3.1	.88	.22		
2	0	.43	1.4	1.4	268	4.4	7.3	3.1	.88	.19		
3	0	.43	23	1.0	59	3.9	8.0	2.8	.88	.20		
4	0	.43	35	1.0	108	3.9	7.3	2.8	.75	.20		
5	0	.52	3.5	.88	55	4.9	24	2.4	.82	.20		
6	0	.62	1.0	.88	29	13	21	2.4	.78	.17		
7	0	.74	.68	.88	22	219	16	2.4	.73	.13		
8	0	.88	.59	1.0	44	97	14	2.4	.69	.08		
9	0	.88	.54	1.0	231	45	13	2.2	.67	.06		
10	0	.88	.51	.88	231	59	11	2.2	.62	.05		
11	0	1.0	.49	.74	64	42	10	2.2	.59	.04		
12	0	1.0	.48	.74	39	30	9.4	2.2	.56	.04		
13	0	1.0	.44	.74	58	46	8.8	1.9	.56	.04		
14	0	1.0	.43	.62	50	40	8.0	1.9	.56	.04		
15	0	1.2	.43	.62	31	28	8.0	1.9	.56	.04		
16	0	1.2	.43	.62	23	45	8.8	1.9	.56	.04		
17	0	1.2	.43	.62	18	28	7.3	1.6	.55	.04		
18	0	1.2	.43	.62	16	24	5.4	1.6	.50	.03		
19	0	1.2	.43	.52	14	21	4.9	1.6	.46	.02		
20	0	1.2	.43	.52	12	18	4.4	1.6	.52	.01		
21	0	2.2	.36	.52	10	18	4.4	1.6	.52	0		
22	0	2.2	.43	.52	8.8	208	3.9	1.4	.46	0		
23	0	1.2	.43	.52	7.3	58	3.5	1.4	.43	0		
24	0	1.0	.43	.52	7.3	40	4.4	1.4	.40	0		
25	0	1.0	.43	.52	6.6	40	11	1.2	.38	0		
26	0	1.2	.43	.52	5.4	28	6.0	1.2	.35	0		
27	0	1.2	.88	.52	4.9	23	3.9	1.2	.31	0		
28	0	1.2	40	.52	4.9	20	3.9	1.0	.27	0		
29	0	1.2	13	.52	---	20	3.5	1.0	.25	0		
30	5.9	1.2	3.9	.52	---	11	3.1	.88	.23	0		
31	8.0	---	2.4	.62	---	10	---	.88	---	0		
TOTAL	13.9	31.23	134.73	22.70	1446.2	1252.5	253.6	57.36	16.72	1.84	0	0
MEAN	.45	1.04	4.35	.73	51.7	40.4	8.45	1.85	.56	.059	0	0
MAX	8.0	2.2	40	1.6	268	219	24	3.1	.88	.22	0	0
MIN	0	.43	.36	.52	4.9	3.9	3.1	.88	.23	0	0	0
AC-FT	28	62	267	45	2870	2480	503	114	33	3.6	0	0
(a)	1.08	.93	5.51	.72	8.72	0.91	2.16	0	0	0	0	.03
(b)	1.64	1.71	6.95	1.12	9.61	7.67	2.84	0	0	0	0	0

CAL YR 1974 TOTAL 7606.38 MEAN 20.8 MAX 855 MIN 0 AC-FT 15090  
WTR YR 1975 TOTAL 3230.78 MEAN 8.85 MAX 268 MIN 0 AC-FT 6410

Peak discharge (base, 600 ft<sup>3</sup>/s)  
Date Time G.H. Discharge Date Time G.H. Discharge  
2-2 1100 6.00 611 3-7 1530 6.67 960  
2-10 0300 6.21 709 3-22 0215 6.20 704  
a Precipitation, in inches.  
b Precipitation, in inches, at auxiliary gage.  
NOTE.--No gage-height record June 4 to July 16.

## SALINAS RIVER BASIN

11147500 SALINAS RIVER AT PASO ROBLES, CALIF.

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

DRAINAGE AREA.--390 mi<sup>2</sup> (1,010 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--32 years, 86.7 ft<sup>3</sup>/s (2.455 m<sup>3</sup>/s), 62,810 acre-ft/yr (77.4 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 4,220 ft<sup>3</sup>/s (120 m<sup>3</sup>/s) Mar. 7 (gage height, 10.24 ft or 3.121 m); no flow for long periods.

Period of record: Maximum discharge, 14,600 ft<sup>3</sup>/s (413 m<sup>3</sup>/s) Jan. 18, 1973 (gage height, 14.61 ft or 4.453 m), from rating curve extended above 6,200 ft<sup>3</sup>/s (176 m<sup>3</sup>/s); maximum gage height, 17.24 ft (5.255 m), Apr. 3, 1958; no flow for long periods in each year.

Flood of Jan. 25, 1969, reached a stage of 23.8 ft (7.25 m), from floodmarks (discharge, 28,000 ft<sup>3</sup>/s or 793 m<sup>3</sup>/s).

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

REVISIONS (WATER YEARS).--WSP 981: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	39	99	37				
2					653	36	90	34				
3					399	38	76	35				
4					240	40	73	33				
5					361	45	173	30				
6					198	78	298	25				
7					153	933	191	23				
8					117	1530	156	22				
9					854	452	144	19				
10					1410	357	133	17				
11					538	336	118	15				
12					253	220	102	13				
13					227	173	93	11				
14					236	274	99	8.2				
15					172	205	96	8.2				
16					145	235	93	7.8				
17					130	200	96	5.9				
18					108	164	84	4.3				
19					92	156	73	4.9				
20					84	144	66	5.6				
21					64	129	61	.61				
22					62	837	56	0				
23					56	414	54	0				
24					55	268	49	0				
25					52	241	55	0				
26					44	215	61	0				
27					41	173	60	0				
28					39	148	56	0				
29					---	129	53	0				
30					---	115	46	0				
31		---			---	108	---	0	---			---
TOTAL	0	0	0	0	6783	8432	2904	359.51	0	0	0	0
MEAN	0	0	0	0	242	272	96.8	11.6	0	0	0	0
MAX	0	0	0	0	1410	1530	298	37	0	0	0	0
MIN	0	0	0	0	0	.36	46	0	0	0	0	0
AC=FT	0	0	0	0	13450	16720	5760	713	0	0	0	0
CAL YR 1974 TOTAL	47143.46				MEAN 129	MAX 5540	MIN 0	AC=FT 93510				
WTR YR 1975 TOTAL	18478.51				MEAN 50.6	MAX 1530	MIN 0	AC=FT 36650				

Date	Time	Peak discharge (base, 1,110 ft <sup>3</sup> /s)	Date	Time	G.H.	Discharge
2-2	1500	8.51	3-7	2100	10.24	4,220
2-10	0815	8.90	3-22	0900	8.78	1,790



## 11147500 SALINAS RIVER AT PASO ROBLES, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: December 1907 to September 1908, October 1962 to May 1966, water years 1972-75 (partial-record station).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)
FEB. 03...	1530	302	.62	.01	.63	.04	.96
MAR. 04...	1200	36	.32	.02	.34	.02	.27
MAY 06...	1230	24	.33	.01	.34	.00	.20

DATE	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
FEB. 03...	1.0	.35	.40	.13	300	12.0	11
MAR. 04...	.29	.09	.21	.07	767	17.0	6.7
MAY 06...	.20	.07	.21	.07	850	23.0	5.2

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
FEB. 03...	1530	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00
MAR. 04...	1200	.00	--	.0	--	.00	--	.00	--	.00	--	.00
MAY 06...	1230	.00	--	.0	--	.00	--	.00	--	.00	--	.00

DATE	TIME	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)
FEB. 03...	.00	.0	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
MAR. 04...	.00	--	.00	--	.00	.00	--	.00	--	.00	--	.00
MAY 06...	.00	--	.00	--	--	.00	--	.00	--	.00	--	.00

DATE	TIME	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
FEB. 03...	.00	.00	.00	.0	0	0	0	0	.00	.00	.00	.00
MAR. 04...	.00	.00	.00	.0	--	0	--	.00	.00	.00	.00	.00
MAY 06...	.00	--	.00	.0	--	0	--	--	.00	.00	.00	.00

## SALINAS RIVER BASIN

11147500 SALINAS RIVER AT PASO ROBLES, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE D ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS- PENDE D COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)
FEB. 03...	1530	7	1	6	<10	<9	1	20	0	<50	<49	1
MAR. 04...	1200	0	0	0	<10	<9	1	0	0	<50	<49	1
MAY 06...	1230	3	1	2	<10	<10	0	10	0	50	48	2

DATE	TOTAL COPPER (CU) (UG/L)	SUS- PENDE D COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE D MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
FEB. 03...	30	25	5	<100	<98	2	.3	.1	.2	40	0	50
MAR. 04...	<10	<8	2	<100	<91	9	.4	.0	.4	20	0	20
MAY 06...	<10	<9	1	<100	<99	1	.0	.0	.0	4	4	0

11148500 ESTRELLA RIVER NEAR ESTRELLA, CALIF.

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

DRAINAGE AREA.--922 mi<sup>2</sup> (2,388 km<sup>2</sup>), not including Carrizo Plains.

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

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

AVERAGE DISCHARGE.--21 years, 24.2 ft<sup>3</sup>/s (0.685 m<sup>3</sup>/s), 17,530 acre-ft/yr (21.6 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 6.6 ft<sup>3</sup>/s (0.19 m<sup>3</sup>/s) Mar. 8 (gage height, 1.42 ft or 0.433 m); no flow for several months.

Period of record: Maximum discharge, 32,500 ft<sup>3</sup>/s (920 m<sup>3</sup>/s) Feb. 24, 1969 (gage height, 10.4 ft or 3.17 m, from floodmarks), by slope-area measurement of maximum flow; maximum gage height, 10.9 ft (3.322 m), Jan. 25, 1969, from floodmarks; no flow for several months in each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	.15	.44					
2					0	.16	.42					
3					0	.17	.68					
4					0	.19	.90					
5					.01	.27	1.8					
6					.03	1.2	3.0					
7					.15	4.0	2.0					
8					.62	6.4	1.5					
9					3.5	1.9	1.2					
10					5.9	1.5	.76					
11					1.6	1.2	.52					
12					1.1	.84	.35					
13					.98	.80	.23					
14					1.0	1.2	.18					
15					.72	.90	.14					
16					.60	1.0	.10					
17					.52	.82	.08					
18					.43	.69	.05					
19					.36	.65	.04					
20					.31	.60	.03					
21					.27	.56	.02					
22					.25	3.6	.01					
23					.24	1.9	0					
24					.22	1.4	0					
25					.20	1.1	0					
26					.18	.94	0					
27					.17	.80	0					
28					.17	.71	0					
29					---	.62	0					
30					---	.53	0					
31		---			---	.48	---		---			---
TOTAL	0	0	0	0	19.53	37.28	14.45	0	0	0	0	0
MEAN	0	0	0	0	.70	1.20	.48	0	0	0	0	0
MAX	0	0	0	0	5.9	6.4	3.0	0	0	0	0	0
MIN	0	0	0	0	0	.15	0	0	0	0	0	0
AC-FT	0	0	0	0	39	74	29	0	0	0	0	0
CAL YR 1974 TOTAL	1959.90			MEAN 5.37	MAX 564	MIN 0	AC-FT 3890					
WTR YR 1975 TOTAL	71.26			MEAN .20	MAX 6.4	MIN 0	AC-FT 141					

Peak discharge (base, 200 ft<sup>3</sup>/s).--No peak above base.

NOTE.--No gage-height record Feb. 5 to Apr. 22.

## SALINAS RIVER BASIN

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

DRAINAGE AREA.--156 mi<sup>2</sup> (404 km<sup>2</sup>).

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

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

EXTREMES.--Current year: Maximum discharge, 37,600 ft<sup>3</sup>/s (1,060 m<sup>3</sup>/s) Feb. 2 (gage height, 25.80 ft or 7.864 m), from rating curve extended as explained below; no flow many days.

Period of record: Maximum discharge, 37,600 ft<sup>3</sup>/s (1,060 m<sup>3</sup>/s) Feb. 2, 1975 (gage height, 25.80 ft or 7.864 m), from rating curve extended above 4,100 ft<sup>3</sup>/s (116 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 16.84 ft (5.133 m); no flow for several months in each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.1	2.5	102	7430	138	280	104	35	11	.63	
2	0	.98	2.7	85	13600	133	254	100	33	11	.56	
3	0	.86	2230	72	1300	128	236	96	34	9.8	.50	
4	0	.86	1340	64	1200	124	226	93	33	10	.40	
5	0	.86	221	57	960	137	446	90	38	9.8	.36	
6	0	.98	118	53	639	522	409	88	32	9.5	.26	
7	0	.98	82	51	548	13100	341	85	30	8.2	.19	
8	0	.98	62	49	860	3980	329	83	29	7.7	.15	
9	0	.86	51	50	3760	1380	299	79	28	7.1	.11	
10	0	.86	44	49	2460	1130	266	77	27	6.0	.06	
11	0	.86	39	46	1040	892	248	74	25	5.3	.04	
12	0	.86	36	42	698	698	233	71	24	4.8	.03	
13	0	.98	35	39	919	771	216	69	23	4.4	.02	
14	0	.86	30	38	831	852	204	66	22	3.9	.02	
15	0	.86	29	36	621	675	195	66	21	3.8	.01	
16	0	.86	28	35	504	959	203	64	20	4.4	.01	
17	0	.86	27	33	412	706	191	63	19	4.9	.01	
18	0	.86	26	32	352	606	171	60	19	4.7	0	
19	0	.98	26	31	310	540	161	57	19	4.0	.01	
20	0	.98	25	30	273	487	155	56	19	3.7	.01	
21	0	1.7	24	29	242	472	148	55	20	3.4	0	
22	0	15	23	28	218	2950	138	52	19	3.0	0	
23	0	9.0	23	27	200	938	133	49	17	2.5	0	
24	0	4.5	22	25	187	719	131	48	16	2.2	0	
25	0	2.9	21	25	177	680	150	47	16	1.8	0	
26	0	2.3	21	25	165	563	132	45	15	1.5	0	
27	0	2.3	59	24	155	481	123	43	14	1.1	0	
28	.01	2.3	1350	23	148	420	118	41	13	.79	0	
29	.02	2.3	415	23	---	370	112	40	13	.68	0	
30	.02	2.5	200	22	---	335	108	37	11	.60	0	
31	.90	---	137	30	---	309	---	35	---	.67	0	---
TOTAL	.95	63.08	6749.2	1275	40209	36195	6356	2033	684	152.24	3.38	0
MEAN	.031	2.10	218	41.1	1436	1168	212	65.6	22.8	4.91	.11	0
MAX	.90	15	2230	102	13600	13100	446	104	38	11	.63	0
MIN	0	.86	2.5	22	148	124	108	35	11	.60	0	0
AC-FT	1.9	125	13390	2530	79750	71790	12610	4030	1360	302	6.7	0
CAL YR 1974	TOTAL	89092.91	MEAN 244	MAX 8920	MIN 0	AC-FT 176700						
WTR YR 1975	TOTAL	93720.85	MEAN 257	MAX 13600	MIN 0	AC-FT 185900						

Peak discharge (base, 4,000 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
12-3	2115	16.83	7,800	3-7	1715	24.27	30,800
2-2	0600	25.80	37,600	3-22	0315	16.25	6,640
2-9	0300	16.90	7,950				

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

PERIOD OF RECORD.--Water temperatures: October 1971 to September 1974.

Sediment records: October 1971 to September 1974, water year 1975 (partial-record station).

Published as sta 11148800 "near Bryson" in 1958-59, 1960-64, 1965-71.

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC. 11...	1420	8.0	39	1	.11	--	--	--	--	--
JAN. 13...	1240	6.5	40	1	.11	--	--	--	--	--
FEB. 07...	1530	12.0	561	10	15	50	52	65	99	100
APR. 09...	1305	13.0	301	2	1.6	--	--	--	--	--
JULY 15...	1515	24.0	3.9	2	.02	--	--	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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
OCT. 29...	1545	16.5	1	.02	4	16	62
29...	1550	16.5	1	.02	--	--	1
29...	1555	16.5	1	.02	--	--	1
29...	1600	16.5	1	.02	--	1	2
29...	1605	16.5	1	.02	2	7	24
29...	1610	16.5	1	.02	10	28	67

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. 29...	98	98	98	99	100	--	--
29...	2	2	7	20	41	78	100
29...	4	4	19	32	51	81	100
29...	9	9	76	91	95	98	100
29...	42	42	54	62	74	84	100
29...	92	92	98	99	100	--	--

## SALINAS RIVER BASIN

## RESERVOIRS IN SALINAS RIVER BASIN, CALIF.

11149300 NACIMIENTO RESERVOIR.--Lat 35°45'29", long 120°53'01", in NW¼ sec.15, T.25 S., R.10 E., San Luis Obispo County, at right end of dam on Nacimiento River, 8.6 mi (13.8 km) southwest of Bradley, and 12.3 mi (19.8 km) upstream from mouth. Drainage area, 319 mi<sup>2</sup> (826 km<sup>2</sup>). Period of record, February 1957 to current year. Monthend contents prior to October 1970, published in WRD Calif. 1970. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Monterey County Flood Control and Water Conservation District). Extremes for current year: Maximum contents observed, 319,800 acre-ft (394 hm<sup>3</sup>) May 13-15 (elevation, 794.00 ft or 242.011 m); minimum observed, 197,400 acre-ft (243 hm<sup>3</sup>) Dec. 23-27 (elevation, 766.30 ft or 233.568 m). Extremes for period of record: Maximum contents observed, 374,500 acre-ft (462 hm<sup>3</sup>) Apr. 7, 1958 (elevation, 804.7 ft or 245.27 m); minimum observed since appreciable storage was attained, 10,910 acre-ft (13.5 hm<sup>3</sup>) Oct. 11, 1960 (elevation, 670.8 ft or 204.46 m).

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

11150100 SAN ANTONIO RESERVOIR.--Lat 35°47'55", long 120°53'02", in SW¼ sec.34, T.24 S., R.10 E., Monterey County, at dam on San Antonio River, 0.7 mi (1.1 km) upstream from Sulphur Canyon, and 6.4 mi (10.3 km) southwest of Bradley. Drainage area, 330 mi<sup>2</sup> (855 km<sup>2</sup>). Period of record, December 1965 to current year. Monthend contents prior to October 1970, published in WRD Calif. 1970. Water-stage recorder. Datum of gage is at mean sea level (levels by Monterey County Flood Control and Water Conservation District). Extremes for current year: Maximum contents, 330,600 acre-ft (408 hm<sup>3</sup>) May 13, 14 (elevation, 776.60 ft or 236.708 m); minimum, 258,100 acre-ft (318 hm<sup>3</sup>) Nov. 30 to Dec. 3 (elevation, 762.75 ft or 232.486 m). Extremes for period of record: Maximum contents, 348,900 acre-ft (430 hm<sup>3</sup>) May 27, 1969 (elevation, 779.8 ft or 237.68 m); minimum since appreciable storage was attained, 93,820 acre-ft (116 hm<sup>3</sup>) Nov. 5-13, 1972 (elevation, 714.1 ft or 217.66 m).

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

## MONTHEND CONTENTS, IN ACRE-FEET, AT 2400, OCTOBER 1974 TO SEPTEMBER 1975

Date	Nacimiento Reservoir	San Antonio Reservoir
Sept. 30, 1974.	229,800	262,700
Oct. 31.....	203,300	260,300
Nov. 30.....	197,600	258,100
Dec. 31.....	203,700	260,700
Jan. 31, 1975..	200,200	261,000
Feb. 28.....	215,400	290,200
Mar. 31.....	302,500	320,600
Apr. 30.....	318,100	329,500
May 31.....	316,800	328,900
June 30.....	302,000	319,000
July 31.....	281,400	308,000
Aug. 31.....	250,800	303,700
Sept. 30.....	223,900	300,000

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REVISIONS (WATER YEARS).--WRD Calif. 1970: 1969.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	499	482	21	25	28	26	26	21	248	239	461	453
2	499	482	21	24	187	26	26	21	248	239	461	453
3	495	482	24	25	2,330	18	26	21	248	239	461	453
4	495	482	23	25	4,040	26	27	22	248	236	461	453
5	495	482	23	25	4,170	27	26	22	248	236	457	457
6	495	234	227	25	3,970	27	25	22	248	236	457	457
7	495	7.2	577	25	3,770	33	25	22	245	236	461	457
8	495	5.5	577	164	3,590	32	25	22	242	236	461	457
9	495	5.1	706	482	3,650	29	24	22	239	236	461	457
10	495	3.8	960	482	3,700	29	24	23	239	236	461	461
11	495	3.8	520	474	3,640	28	24	23	239	236	461	461
12	495	3.8	512	474	3,510	28	24	24	239	236	457	461
13	495	4.1	507	469	3,360	28	22	24	239	236	457	457
14	495	3.8	499	465	1,560	28	22	23	239	236	457	461
15	490	3.8	490	186	600	28	22	45	236	236	457	461
16	490	3.8	224	24	600	28	22	98	236	236	457	461
17	490	3.8	24	23	600	23	22	100	239	236	457	461
18	490	3.8	23	22	507	21	22	100	236	233	457	457
19	490	6.7	23	22	600	27	22	98	239	233	457	461
20	490	5.9	23	22	363	27	21	98	239	236	457	461
21	490	9.8	23	22	28	27	21	98	239	301	457	461
22	490	9.8	23	22	27	27	21	98	239	369	457	461
23	490	9.8	23	23	27	27	22	98	239	369	457	461
24	490	9.2	23	23	23	27	21	98	239	416	457	465
25	486	9.2	23	23	14	26	22	98	239	465	457	465
26	486	11	23	23	26	26	22	98	239	465	457	465
27	486	20	24	23	26	26	22	98	239	465	457	461
28	486	20	27	23	26	26	22	98	239	465	453	465
29	486	20	25	23	-----	26	22	153	239	461	453	465
30	482	21	25	23	-----	27	22	252	239	461	453	465
31	482	-----	25	24	-----	27	-----	252	-----	461	453	-----
TOTAL	15,232	2,848.7	6,268	3,735	44,972	831	694	2,292	7,224	9,421	14,187	13,794
MEAN	491	95.0	202	120	1,606	26.8	23.1	73.9	241	304	458	460
MAX	499	482	960	482	4,170	33	27	252	248	465	461	465
MIN	482	3.8	21	22	14	18	21	21	236	233	453	453
AC-FT	30,210	5,650	12,430	7,410	89,200	1,650	1,380	4,550	14,330	18,690	28,140	27,360
CAL YR 1974	TOTAL	132,584.9	MEAN	363	MAX	3,830	MIN	3.3	AC-FT	263,000		
WTR YR 1975	TOTAL	121,498.7	MEAN	333	MAX	4,170	MIN	3.8				

## SALINAS RIVER BASIN

11149900 SAN ANTONIO RIVER NEAR LOCKWOOD, CALIF.

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

DRAINAGE AREA.--223 mi<sup>2</sup> (578 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 800.00 ft (243.840 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 104 ft<sup>3</sup>/s (2.945 m<sup>3</sup>/s), 75,350 acre-ft/yr (92.9 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 6,720 ft<sup>3</sup>/s (190 m<sup>3</sup>/s) Feb. 2 (gage height, 10.61 ft or 3.234 m); no flow for several months.

Period of record: Maximum discharge, 14,000 ft<sup>3</sup>/s (396 m<sup>3</sup>/s) Jan. 26, 1969 (gage height, 8.25 ft or 2.515 m); maximum gage height, 9.2 ft (2.80 m), from floodmarks, Dec. 6, 1966; no flow for several months in each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	39	391	129	249	105	26	9.4	.06	
2			0	35	2940	124	226	101	30	8.5	.03	
3			209	28	861	121	212	97	30	7.7	.01	
4			446	28	735	119	212	95	26	7.7	0	
5			162	28	588	119	292	92	28	7.0	0	
6			105	28	325	165	292	89	26	6.4	0	
7			78	26	149	1750	279	88	28	6.4	0	
8			60	25	144	1920	257	88	28	6.4	0	
9			45	23	926	1310	234	82	22	7.0	0	
10			36	24	1070	1040	215	75	21	5.3	0	
11			26	22	751	870	205	78	19	4.0	0	
12			22	18	556	852	201	72	19	4.0	0	
13			21	16	556	751	174	75	18	4.0	0	
14			18	16	549	792	168	69	18	4.0	0	
15			16	18	458	569	165	69	16	4.0	0	
16			16	18	375	636	168	65	15	3.6	0	
17			18	18	315	518	162	65	16	3.0	0	
18			16	19	279	424	141	72	16	3.3	0	
19			14	19	253	365	132	65	15	3.3	0	
20			14	19	230	315	129	69	16	3.3	0	
21			11	18	215	292	121	57	19	3.0	0	
22			11	18	194	852	115	57	19	2.8	0	
23			11	18	184	556	110	50	18	2.4	0	
24			9.4	18	171	452	134	53	18	2.0	0	
25			9.4	18	162	429	150	50	16	1.7	0	
26			10	19	146	365	138	44	15	1.4	0	
27			14	19	141	349	128	47	16	1.0	0	
28			116	18	135	339	120	37	14	.71	0	
29			113	19	---	330	116	37	11	.67	0	
30			82	19	---	310	108	32	9.4	.38	0	
31		---	65	26	---	283	---	32	---	.17	0	---
TOTAL	0	0	1772.8	677	13799	17446	5353	2107	588.4	124.53	.10	0
MEAN	0	0	57.2	21.8	493	563	178	68.0	19.6	4.02	.003	0
MAX	0	0	445	39	2940	1920	292	105	30	9.4	.06	0
MIN	0	0	0	16	135	119	108	32	9.4	.17	0	0
AC=FT	0	0	3520	1340	27370	34600	10620	4180	1170	247	.2	0
CAL YR 1974	TOTAL	50593.73	MEAN	139	MAX	2880	MIN	0	AC=FT	100400		
WTR YR 1975	TOTAL	41867.83	MEAN	115	MAX	2940	MIN	0	AC=FT	83040		

Peak discharge (base, 1,500 ft <sup>3</sup> /s, revised)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-2	0745	10.61	6,720	3-7	1645	8.90	4,430
2-10	0545	7.69	1,620	3-22	0545	7.86	1,820



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

PERIOD OF RECORD.--Water temperatures: October 1965 to September 1973.

Sediment records: October 1965 to September 1974, water year 1975 (partial-record station).

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
DEC. 10...	1425	16.0	37	19	1.9	--	--	--	--	--	--
JAN. 06...	1225	7.5	28	18	1.4	--	--	--	--	--	--
FEB. 06...	1335	13.5	312	151	127	13	20	53	89	100	--
MAR. 06...	1205	14.0	164	118	52	27	33	50	90	98	100
APR. 04...	1255	11.5	204	113	62	10	15	38	73	96	100
MAY 07...	1500	24.0	86	26	6.0	--	--	--	--	--	--
JUNE 05...	1210	28.0	29	8	.63	--	--	--	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
DEC. 10...	1440	16.0	37	37	52	18	1	16
JAN. 06...	1225	7.5	23	28	47	20	1	16
FEB. 06...	1400	13.5	23	312	118	594	4	20
MAR. 06...	1210	14.0	26	164	138	200	3	23
APR. 04...	1250	11.5	25	204	125	269	3	25
MAY 07...	1510	24.0	19	86	82	131	2	19
JUNE 05...	1205	28.0	23	29	50	25	2	22

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
DEC. 10...	58	89	97	99	100	--	--
JAN. 06...	64	91	97	100	--	--	--
FEB. 06...	51	74	86	93	97	100	--
MAR. 06...	63	85	93	96	100	--	--
APR. 04...	62	84	92	96	98	100	--
MAY 07...	66	89	95	97	99	99	100
JUNE 05...	66	90	97	99	100	--	--

## SALINAS RIVER BASIN

11150500 SALINAS RIVER NEAR BRADLEY, CALIF.

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

DRAINAGE AREA.--2,535 mi<sup>2</sup> (6,566 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 442.69 ft (134.932 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE (unadjusted).--27 years, 439 ft<sup>3</sup>/s (12.43 m<sup>3</sup>/s), 318,100 acre-ft/yr (392 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 7,000 ft<sup>3</sup>/s (198 m<sup>3</sup>/s) Feb. 10 (gage height, 10.40 ft or 3.170 m); minimum daily, 31 ft<sup>3</sup>/s (0.88 m<sup>3</sup>/s) Jan. 7.

Period of record: Maximum discharge, 117,000 ft<sup>3</sup>/s (3,310 m<sup>3</sup>/s) Feb. 24, 1969 (gage height, 20.34 ft or 6.200 m, from floodmarks); no flow at times in 1951, 1954-55, 1957.

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

REVISIONS (WATER YEARS).--WSP 1285: 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	455	472	42	34	39	108	173	79	294	391	505	492
2	466	498	42	35	180	100	159	73	305	386	498	492
3	489	478	52	35	830	92	149	68	299	386	492	492
4	504	459	56	34	3450	87	143	66	305	368	485	492
5	507	459	45	34	4670	90	160	63	357	346	452	465
6	505	233	42	32	4500	105	272	58	374	368	434	498
7	510	105	315	31	3950	177	336	57	386	403	459	512
8	505	74	519	33	3540	1810	259	58	386	409	492	498
9	533	68	547	185	3500	888	216	59	386	403	492	485
10	569	56	937	415	5750	478	191	57	380	409	492	498
11	584	47	669	451	5710	478	168	56	386	415	505	519
12	561	45	554	451	4700	368	155	54	374	415	519	526
13	492	45	563	440	4230	294	135	51	357	415	526	533
14	465	42	549	432	3190	315	123	46	363	415	526	533
15	446	39	534	148	1030	299	124	100	374	421	519	512
16	446	37	510	77	898	229	125	150	440	415	519	472
17	440	36	181	67	888	256	136	134	459	409	512	472
18	485	36	82	62	824	229	131	124	452	415	519	478
19	485	36	59	55	833	216	127	124	403	485	498	492
20	472	36	48	49	869	204	124	124	397	492	465	519
21	465	37	43	43	331	177	122	125	397	478	465	519
22	485	36	39	39	208	274	112	130	391	485	478	526
23	492	37	37	40	181	720	103	149	386	519	485	533
24	485	36	37	45	163	440	96	146	374	519	485	547
25	465	34	34	41	143	374	88	146	368	498	498	533
26	452	37	34	40	124	341	90	146	380	505	505	526
27	459	34	35	39	116	294	98	149	397	505	526	519
28	459	39	40	41	113	256	89	149	403	505	540	519
29	452	42	46	39	---	220	82	146	368	512	526	512
30	470	42	41	39	---	200	80	246	391	519	512	512
31	492	---	36	39	---	184	---	284	---	512	498	---
TOTAL	15095	3675	6768	3545	54960	10303	4366	3417	11332	13723	15427	15226
MEAN	487	123	218	114	1963	332	146	110	378	443	498	508
MAX	584	498	937	451	5750	1810	336	284	459	519	540	547
MIN	440	34	34	31	39	87	80	46	294	346	434	465
AC-FT	29940	7290	13420	7030	109000	20440	8660	6780	22480	27220	30600	30200

CAL YR 1974 TOTAL 192937 MEAN 529 MAX 6390 MIN 29 AC-FT 382700  
WTR YR 1975 TOTAL 157837 MEAN 432 MAX 5750 MIN 31 AC-FT 313100

11150500 SALINAS RIVER NEAR BRADLEY, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), August 1962 to September 1966,  
water years 1972-75 (partial-record station).  
Sediment analyses: Water year 1950 (partial-record station).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN IN BOTTOM MATERI- AL (N) (MG/KG)
OCT. 03...	1000	492	--	--	.05	.05	.28	.33	70
FEB. 04...	1600	3420	.18	.00	.18	.01	.45	.46	--
MAR. 04...	1430	87	.11	.00	.11	.01	.16	.17	--
MAY 19...	1400	127	.06	.00	.06	.00	.21	.21	--

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)
OCT. 03...	.18	.03	.01	54	281	--	4.5	<.1
FEB. 04...	.14	.12	.04	--	220	11.0	7.1	--
MAR. 04...	.08	.21	.07	--	627	19.5	3.1	--
MAY 19...	.06	.09	.03	--	440	21.0	5.1	--

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
OCT. 03...	1000	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00
FEB. 04...	1600	.00	--	.0	--	.00	--	.00	--	.00	--	.00
MAR. 04...	1430	.00	--	.0	--	.00	--	.00	--	.00	--	.00
MAY 19...	1400	.00	--	.0	--	.00	--	.00	--	.00	--	.00

DATE	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)
OCT. 03...	.00	.0	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
FEB. 04...	.00	--	.00	--	.00	.00	--	.00	--	.00	--	.00
MAR. 04...	.00	--	.00	--	.00	.00	--	.00	--	.00	--	.00
MAY 19...	.00	--	.00	--	--	.00	--	.00	--	.00	--	.00

## SALINAS RIVER BASIN

11150500 SALINAS RIVER NEAR BRADLEY, CALIF.--Continued  
 PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT. 03...	.00	.00	.00	.0	0	0	0	.00	.00	.00	.00
FEB. 04...	.00	.00	.00	.0	--	0	--	.00	.00	.00	.00
MAR. 04...	.00	.00	.00	.0	--	0	--	.00	.00	.00	.00
MAY 19...	.00	--	.00	.0	--	0	--	--	.00	.00	.00

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)
OCT. 03...	1000	1	0	1	1	10	10	0	<1	0	7
FEB. 04...	1600	3	2	1	--	<10	<9	1	--	0	--
MAR. 04...	1430	0	0	1	--	<10	<7	3	--	0	--
MAY 19...	1400	1	0	1	--	<10	<10	0	--	0	--

DATE	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS- PENDE COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS- PENDE COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE LEAD (PB) (UG/L)
OCT. 03...	0	<50	<50	0	<5	<10	<9	1	1	<100	<99
FEB. 04...	0	50	49	1	--	680	420	260	--	100	90
MAR. 04...	0	<50	<49	1	--	<10	0	30	--	<100	<89
MAY 19...	0	<50	<50	0	--	<10	<8	2	--	<100	<98

DATE	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 03...	1	<10	.0	.0	.0	.0	10	10	0	5
FEB. 04...	10	--	.0	.0	.0	--	60	0	60	--
MAR. 04...	11	--	.1	.0	.1	--	20	0	30	--
MAY 19...	2	--	.4	.0	.4	--	4	0	4	--

## 11151300 SAN LORENZO CREEK BELOW BITTERWATER CREEK, NEAR KING CITY, CALIF.

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

DRAINAGE AREA.--233 mi<sup>2</sup> (603 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--17 years, 12.1 ft<sup>3</sup>/s (0.343 m<sup>3</sup>/s), 8,770 acre-ft/yr (10.8 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,250 ft<sup>3</sup>/s (63.7 m<sup>3</sup>/s) Feb. 2 (gage height, 8.85 ft or 2.697 m); minimum daily, 0.27 ft<sup>3</sup>/s (0.008 m<sup>3</sup>/s) July 23.

Period of record: Maximum discharge, 10,800 ft<sup>3</sup>/s (306 m<sup>3</sup>/s) Jan. 25, 1969 (gage height, 15.33 ft or 4.673 m in gage well, 16.2 ft or 4.94 m, from floodmarks); no flow many days in 1961 and 1973.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. No regulation; small diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.74	2.2	2.2	4.5	38	2.6	11	5.3	.89	.40	.90	.90
2	1.4	2.2	2.2	4.2	867	2.2	9.6	4.6	.90	.51	1.3	.90
3	1.6	1.9	1.6	3.8	72	2.2	9.0	4.1	.96	.59	1.3	.90
4	1.6	1.9	1.33	3.9	29	2.6	9.8	4.3	.84	.63	.90	.90
5	1.6	1.9	1.7	3.9	48	3.9	38	4.4	.79	.57	.90	.90
6	1.5	1.9	9.6	3.9	19	10	40	4.8	.76	.52	.72	.90
7	1.2	1.9	7.2	4.3	14	387	21	4.7	.74	.50	.73	.90
8	1.6	1.9	6.6	4.2	13	319	22	4.5	.71	.47	.72	.90
9	1.5	1.9	5.8	4.2	181	80	21	4.2	.69	.45	.72	.90
10	1.3	1.6	5.3	4.3	89	37	14	4.0	.66	.44	.72	.90
11	1.3	1.6	4.9	3.8	38	36	12	4.1	.64	.43	.72	.90
12	1.4	1.9	4.7	3.6	16	24	13	3.7	.60	.42	.72	.90
13	1.5	1.9	4.2	3.6	100	26	12	3.2	.57	.41	.90	.90
14	1.5	1.9	3.9	3.7	99	86	8.7	.83	.51	.40	1.1	.90
15	1.6	1.6	3.9	3.7	24	40	8.7	.57	.45	.52	.90	.90
16	1.6	1.9	3.9	3.7	14	42	8.9	6.7	.42	.42	.90	.90
17	1.4	1.9	3.9	3.5	11	28	9.8	2.9	.40	.45	.90	.90
18	1.4	1.9	3.9	3.5	8.8	16	8.5	2.3	.45	.52	.90	.90
19	1.6	1.9	3.9	3.5	7.3	14	7.5	2.1	.51	.57	.90	.90
20	1.7	1.9	3.9	3.4	7.3	11	6.9	1.8	.61	.41	.90	.90
21	1.9	1.9	3.9	3.0	5.4	11	6.7	1.9	.54	.56	.90	.90
22	1.9	2.2	3.8	3.0	4.9	59	6.5	1.8	.46	.67	.90	.90
23	1.8	1.9	3.8	3.0	4.3	40	6.5	1.7	.43	.27	.90	.90
24	1.9	1.9	3.5	3.0	3.9	16	6.7	1.6	.42	.32	.90	.90
25	1.8	1.9	3.8	3.0	3.9	15	8.1	1.3	.45	.43	.90	.90
26	1.8	1.9	3.9	3.0	3.4	17	8.8	1.2	.51	.47	.90	.88
27	1.5	1.9	4.1	3.0	3.0	15	7.1	1.2	.40	.46	.90	.87
28	2.2	1.9	12	3.0	2.6	12	6.3	1.1	.36	.45	.90	.86
29	3.3	1.9	9.6	3.4	---	11	5.3	1.0	.30	.54	.90	.84
30	2.6	1.9	6.5	3.0	---	9.6	4.6	.96	.35	.63	.90	.83
31	2.2	---	5.2	3.4	---	9.6	---	.92	---	.72	.90	---
TOTAL	51.94	57.0	306.1	111.0	1726.8	1384.7	358.0	87.78	17.32	15.15	27.65	26.78
MEAN	1.68	1.90	9.87	3.58	61.7	44.7	11.9	2.83	.58	.49	.89	.89
MAX	3.3	2.2	133	4.5	867	387	40	6.7	.96	.72	1.3	.90
MIN	.74	1.6	2.2	3.0	2.6	2.2	4.6	.57	.30	.27	.72	.83
AC-FT	103	113	607	220	3430	2750	710	174	34	30	55	53
CAL YR 1974 TOTAL	4799.65			MEAN 13.1	MAX 964	MIN .28	AC-FT 9520					
WTR YR 1975 TOTAL	4170.22			MEAN 11.4	MAX 867	MIN .27	AC-FT 8270					

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
12-4	0200	6.48	307	2-13	2030	6.49	314
2-2	0800	8.85	2,250	3-7	2100	8.80	2,200
2-9	0800	6.58	364				

NOTE.--No gage-height record May 28 to July 13, Aug. 31 to Sept. 30.



## SALINAS RIVER BASIN

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11151700 SALINAS RIVER AT SOLEDAD, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1972-75 (partial-record station).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN IN BOTTOM MATERIAL (N) (MG/KG)
OCT. 03...	1130	339	.07	.00	.07	.14	.49	.63	100
FEB. 05...	1330	2390	.44	.00	.44	.05	2.1	2.1	--
MAR. 05...	1210	220	1.5	.02	1.5	.01	.26	.27	--
MAY 07...	1300	78	4.8	.03	4.8	.00	.23	.23	--

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (P04) (MG/L)	DIS-SOLVED ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)
OCT. 03...	1.4	.09	.03	86	339	17.5	7.3	<.1
FEB. 05...	.81	.09	.03	--	325	11.0	19	--
MAR. 05...	.14	.28	.09	--	870	13.5	2.6	--
MAY 07...	.07	.21	.07	--	1600	19.5	6.3	--

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)
OCT. 03...	1130	.00	.0	.0	0	.00	.3	.00	.7	.00	.4	.00
FEB. 05...	1330	.00	--	.0	--	.00	--	.01	--	.00	--	.00
MAR. 05...	1210	.00	--	.0	--	.00	--	.00	--	.00	--	.00
MAY 07...	1300	.00	--	.0	--	.00	--	.00	--	.00	--	.00

DATE	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)
OCT. 03...	.00	.1	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
FEB. 05...	.00	--	.00	--	.00	.00	--	.00	--	.00	--	.00
MAR. 05...	.00	--	.00	--	.00	.00	--	.00	--	.00	--	.00
MAY 07...	.00	--	.00	--	--	.00	--	.00	--	.00	--	.00

## SALINAS RIVER BASIN

11151700 SALINAS RIVER AT SOLEDAD, CALIF.--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT.											
03...	.00	.00	.00	.0	0	0	0	.00	.00	.00	.00
FEB.											
05...	.00	.00	.00	.0	--	0	--	.00	.00	.00	.00
MAR.											
05...	.00	.00	.00	.0	--	0	--	.00	.00	.00	.00
MAY											
07...	.00	--	.00	.0	--	0	--	--	.00	.00	.00

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CO) (UG/L)	SUS- PENDE CAD- MIUM (CO) (UG/L)	DIS- SOLVED CAD- MIUM (CO) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)
OCT.											
03...	1130	1	0	1	3	<10	<9	<1	1	0	11
FEB.											
05...	1330	22	21	1	--	<10	<9	1	--	170	--
MAR.											
05...	1210	1	1	0	--	10	10	0	--	0	--
MAY											
07...	1300	2	2	0	--	10	10	0	--	0	--

DATE	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS- PENDE COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS- PENDE COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE LEAD (PB) (UG/L)
OCT.											
03...	0	<50	<50	0	<5	<10	<8	2	1	<100	<94
FEB.											
05...	0	50	50	0	--	1700	1700	3	--	200	200
MAR.											
05...	0	<50	<49	1	--	30	29	1	--	<100	<100
MAY											
07...	0	<50	<48	2	--	<10	<2	8	--	<100	<100

DATE	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT.										
03...	6	<10	.0	.0	.0	.0	10	10	0	7
FEB.										
05...	4	--	.3	.3	.0	--	220	200	20	--
MAR.										
05...	0	--	.3	.2	.1	--	50	40	10	--
MAY										
07...	0	--	.0	.0	.0	--	0	0	6	--



## SALINAS RIVER BASIN

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

DRAINAGE AREA.--113 mi<sup>2</sup> (293 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--14 years, 145 ft<sup>3</sup>/s (4.106 m<sup>3</sup>/s), 105,100 acre-ft/yr (130 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 15,600 ft<sup>3</sup>/s (442 m<sup>3</sup>/s) Feb. 2 (gage height, 13.24 ft or 4.036 m), from rating curve extended as explained below; minimum daily, 3.3 ft<sup>3</sup>/s (0.093 m<sup>3</sup>/s) Sept. 24.  
Period of record: Maximum discharge, 21,800 ft<sup>3</sup>/s (617 m<sup>3</sup>/s) Dec. 6, 1966 (gage height, 14.50 ft or 4.420 m, present datum), from rating curve extended above 5,700 ft<sup>3</sup>/s (161 m<sup>3</sup>/s) on basis of slope-area measurement at gage-height 12.65 ft or 3.856 m, present datum; no flow at times.

REMARKS.--Records good. No regulation; small diversion for fishponds above station by pumping.

REVISIONS (WATER YEARS).--WRD Calif. 1967: 1966. WRD Calif. 1969: 1967(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.2	12	22	76	3570	163	361	160	60	25	14	7.2
2	7.7	12	25	68	4890	159	342	156	59	25	15	7.4
3	10	12	1420	61	876	153	325	151	59	26	14	7.0
4	11	13	486	56	843	147	328	147	58	30	17	6.8
5	11	13	150	54	699	191	440	144	55	28	15	6.4
6	9.3	13	94	52	523	328	376	139	54	26	15	5.6
7	9.1	13	73	54	440	3730	356	135	52	24	16	5.1
8	9.1	15	61	53	570	2140	348	130	51	23	16	4.7
9	10	15	53	55	1430	1170	336	126	48	22	16	4.7
10	11	15	49	52	1450	928	320	123	46	20	14	5.1
11	11	15	45	50	876	765	310	119	45	19	11	5.6
12	11	15	43	47	658	641	295	115	43	18	11	5.4
13	10	16	40	46	905	658	282	112	41	18	11	5.1
14	10	15	39	45	736	645	270	108	39	18	11	4.9
15	11	16	36	44	586	570	263	108	38	18	11	5.1
16	11	18	35	42	493	641	259	104	37	22	9.8	4.7
17	10	18	34	41	421	534	250	101	34	22	9.8	4.4
18	10	19	34	41	370	508	236	96	36	20	9.8	4.1
19	10	20	32	40	334	479	228	93	37	19	13	3.8
20	10	21	32	39	305	444	220	90	38	21	14	3.8
21	11	37	31	38	270	576	213	91	36	22	13	3.7
22	11	59	31	38	252	1360	204	88	33	20	11	3.4
23	12	31	30	37	234	727	198	85	31	18	9.6	3.5
24	14	26	29	37	218	619	197	81	31	16	9.1	3.3
25	16	24	29	36	206	623	209	79	31	15	9.1	3.4
26	18	23	29	36	193	534	191	75	30	14	8.8	3.4
27	18	22	62	36	183	500	183	73	29	13	8.8	3.7
28	25	22	411	36	173	468	178	71	28	13	8.6	4.1
29	42	22	168	36	---	434	173	68	26	13	9.3	4.1
30	17	22	111	36	---	409	165	65	25	14	9.8	4.1
31	12	---	89	39	---	387	---	63	---	14	8.3	---
TOTAL	395.4	594	3823	1421	22704	21631	8056	3296	1230	616	368.8	143.6
MEAN	12.8	19.8	123	45.8	811	698	269	106	41.0	19.9	11.9	4.79
MAX	42	59	1420	76	4890	3730	440	160	60	30	17	7.4
MIN	7.2	12	22	36	173	147	165	63	25	13	8.3	3.3
AC-FT	784	1180	7580	2820	45030	42910	15980	6540	2440	1220	732	285
CAL YR 1974	TOTAL	60366.6	MEAN 165	MAX 3040	MIN 6.4	AC-FT 119700						
WTR YR 1975	TOTAL	64278.8	MEAN 176	MAX 4890	MIN 3.3	AC-FT 127500						

Peak discharge (base, 1,500 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
12-3	1915	9.27	3,770	3-7	1400	11.21	8,240
2-2	0130	13.24	15,600	3-22	0015	9.25	3,700
2-9	0200	8.31	2,530				

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

Sediment concentrations: Maximum daily, 425 mg/l Feb. 2; minimum daily, 1 mg/l for many days.  
Sediment discharge: Maximum daily, 10,100 tons (9,160 tonnes) Feb. 2; minimum daily, 0.01 ton (0.01 tonne) on many days.

Water temperatures (1964-66, 1971-72): Minimum, 3.5°C Jan. 6, 9, 1972.  
Sediment concentrations: Maximum daily, 3,040 mg/l Dec. 6, 1966; minimum daily, no flow many days in 1966, 1968, and 1972.

Sediment discharge: Maximum daily, 84,800 tons (76,900 tonnes) Dec. 6, 1966; minimum daily, 0 tons (0 tonnes) on many days in 1966, 1968, 1970-73.

[illegible]

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.
						% FINER THAN .002 MM	% FINER THAN .004 MM	% FINER THAN .008 MM
DEC.								
03...	1130	11.0	1590	64	275	--	--	--
03...	1335	11.0	987	45	120	--	--	--
03...	1430	7.0	860	84	195	--	--	--
MAR.								
07...	1300	10.5	5400	434	6330	13	17	24
		SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.	SUS. SED. FALL DIAM.
		% FINER THAN .016 MM	% FINER THAN .031 MM	% FINER THAN .062 MM	% FINER THAN .125 MM	% FINER THAN .250 MM	% FINER THAN .500 MM	% FINER THAN 1.00 MM
DATE								
DEC.								
03...	--	--	84	86	92	100	--	--
03...	--	--	95	97	100	--	--	--
03...	--	--	61	64	67	70	75	100
MAR.								
07...	33	43	52	63	76	91	98	100

11151870 ARROYO SECO NEAR GREENFIELD, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7.2	3	.06	12	1	.03	22	2	.12
2	7.7	3	.06	12	1	.03	25	2	.14
3	10	3	.08	12	1	.03	1420	107	679
4	11	3	.09	13	2	.07	486	76	100
5	11	3	.09	13	2	.07	150	3	1.2
6	9.3	3	.08	13	2	.07	94	2	.51
7	9.1	2	.05	13	2	.07	73	1	.20
8	9.1	2	.05	15	2	.08	61	1	.16
9	10	2	.05	15	2	.08	53	1	.14
10	11	2	.06	15	2	.08	49	1	.13
11	11	2	.06	15	2	.08	45	1	.12
12	11	1	.03	15	2	.08	43	1	.12
13	10	1	.03	16	2	.09	40	1	.11
14	10	1	.03	15	2	.08	39	1	.11
15	11	1	.03	16	2	.09	36	1	.10
16	11	1	.03	18	2	.10	35	1	.09
17	10	1	.03	18	2	.10	34	1	.09
18	10	1	.03	19	2	.10	34	1	.09
19	10	1	.03	20	2	.11	32	1	.09
20	10	1	.03	21	2	.11	32	1	.09
21	11	1	.03	37	4	.53	31	1	.08
22	11	1	.03	59	3	.61	31	1	.08
23	12	1	.03	31	2	.17	30	1	.08
24	14	1	.04	26	2	.14	29	1	.08
25	16	1	.04	24	2	.13	29	1	.08
26	18	1	.05	23	2	.12	29	1	.08
27	18	1	.05	22	2	.12	62	3	1.5
28	25	2	.15	22	2	.12	411	22	29
29	42	2	.25	22	2	.12	168	2	.91
30	17	1	.05	22	2	.12	111	2	.60
31	12	1	.03	---	---	---	89	2	.48
MONTH	395.4	---	1.75	594	---	3.73	3823	---	815.58
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	76	2	.41	3570	293	6830	163	4	1.8
2	68	2	.37	4890	425	10100	159	4	1.7
3	61	2	.33	876	21	50	153	4	1.7
4	56	2	.30	843	43	105	147	4	1.6
5	54	2	.29	699	8	15	191	7	4.8
6	52	2	.28	523	6	8.5	328	10	10
7	54	2	.29	440	5	5.9	3730	344	4450
8	53	1	.14	570	15	43	2140	174	1040
9	55	1	.15	1430	63	269	1170	62	212
10	52	1	.14	1450	61	268	928	34	85
11	50	2	.27	876	19	48	765	20	41
12	47	2	.25	658	10	18	641	13	22
13	46	2	.25	905	28	73	658	10	18
14	45	2	.24	736	18	36	645	7	12
15	44	2	.24	586	6	9.5	570	7	11
16	42	1	.11	493	4	5.3	641	8	14
17	41	1	.11	421	4	4.5	534	7	10
18	41	1	.11	370	4	4.0	508	6	8.2
19	40	1	.11	334	4	3.6	479	5	6.5
20	39	1	.11	305	4	3.3	444	4	4.8
21	38	1	.10	270	4	2.9	576	16	73
22	38	1	.10	252	4	2.7	1360	60	308
23	37	1	.10	234	4	2.5	727	18	35
24	37	1	.10	218	4	2.4	619	12	20
25	36	1	.10	206	4	2.2	623	7	12
26	36	1	.10	193	4	2.1	534	2	2.9
27	36	1	.10	183	4	2.0	500	1	1.4
28	36	2	.19	173	4	1.9	468	1	1.3
29	36	2	.19	---	---	---	434	1	1.2
30	36	2	.19	---	---	---	409	1	1.1
31	39	2	.21	---	---	---	387	1	1.0
MONTH	1421	---	5.98	22704	---	17918.3	21631	---	6413.0

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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	361	1	.97	160	2	.86	60	1	.16	
2	342	1	.92	156	2	.84	59	1	.16	
3	325	1	.88	151	2	.82	59	1	.16	
4	328	1	.89	147	2	.79	58	1	.16	
5	440	6	7.0	144	2	.78	55	1	.15	
6	376	2	2.0	139	2	.75	54	2	.29	
7	356	2	1.9	135	2	.73	52	2	.28	
8	348	2	1.9	130	2	.70	51	2	.28	
9	336	2	1.8	126	2	.68	48	2	.26	
10	320	3	2.6	123	2	.66	46	2	.25	
11	310	3	2.5	119	1	.32	45	1	.12	
12	295	3	2.4	115	1	.31	43	1	.12	
13	282	3	2.3	112	1	.30	41	1	.11	
14	270	3	2.2	108	1	.29	39	1	.11	
15	263	3	2.1	108	1	.29	38	1	.10	
16	259	3	2.1	104	1	.28	37	2	.20	
17	250	2	1.4	101	1	.27	34	2	.18	
18	236	2	1.3	96	1	.26	36	2	.19	
19	228	2	1.2	93	1	.25	37	2	.20	
20	220	2	1.2	90	1	.24	38	2	.21	
21	213	2	1.2	91	1	.25	36	2	.19	
22	204	2	1.1	88	2	.48	33	1	.09	
23	198	2	1.1	85	2	.46	31	1	.08	
24	197	2	1.1	81	2	.44	31	1	.08	
25	209	2	1.1	79	2	.43	31	1	.08	
26	191	2	1.0	75	2	.41	30	1	.08	
27	183	2	.99	73	2	.39	29	1	.08	
28	178	1	.48	71	2	.38	28	1	.08	
29	173	1	.47	68	1	.18	26	1	.07	
30	165	1	.45	65	1	.18	25	1	.07	
31	---	---	---	63	1	.17	---	---	---	
MONTH	8056	---	48.55	3296	---	14.19	1230	---	4.59	
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	25	1	.07	14	1	.04	7.2	2	.04	
2	25	1	.07	15	1	.04	7.4	2	.04	
3	26	2	.14	14	1	.04	7.0	2	.04	
4	30	2	.16	17	1	.05	6.8	2	.04	
5	28	2	.15	15	1	.04	6.4	2	.03	
6	26	2	.14	15	1	.04	5.6	2	.03	
7	24	2	.13	16	1	.04	5.1	1	.01	
8	23	2	.12	16	1	.04	4.7	1	.01	
9	22	2	.12	16	1	.04	4.7	1	.01	
10	20	3	.16	14	2	.08	5.1	2	.03	
11	19	3	.15	11	2	.06	5.6	2	.03	
12	18	3	.15	11	3	.09	5.4	2	.03	
13	18	2	.10	11	2	.06	5.1	2	.03	
14	18	2	.10	11	2	.06	4.9	1	.01	
15	18	3	.15	11	3	.09	5.1	1	.01	
16	22	3	.18	9.8	4	.11	4.7	1	.01	
17	22	2	.12	9.8	3	.08	4.4	1	.01	
18	20	2	.11	9.8	2	.05	4.1	1	.01	
19	19	2	.10	13	2	.07	3.8	1	.01	
20	21	2	.11	14	2	.08	3.8	1	.01	
21	22	2	.12	13	3	.11	3.7	1	.01	
22	20	2	.11	11	3	.09	3.4	1	.01	
23	18	2	.10	9.6	2	.05	3.5	1	.01	
24	16	4	.17	9.1	1	.02	3.3	1	.01	
25	15	4	.16	9.1	1	.02	3.4	1	.01	
26	14	4	.15	8.8	1	.02	3.4	1	.01	
27	13	3	.11	8.8	1	.02	3.7	1	.01	
28	13	2	.07	8.6	1	.02	4.1	1	.01	
29	13	1	.04	9.3	1	.03	4.1	1	.01	
30	14	1	.04	9.8	2	.05	4.1	1	.01	
31	14	1	.04	8.3	2	.04	---	---	---	
MONTH	616	---	3.64	368.8	---	1.67	143.6	---	.54	
YEAR	64278.8		25231.52							

## 11152000 ARROYO SECO NEAR SOLEDAD, CALIF.

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

DRAINAGE AREA.--244 mi<sup>2</sup> (632 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 342.20 ft (104.303 m) above mean sea level (Corps of Engineers bench mark). Prior to June 16, 1929, nonrecording gage, and June 16, 1929, to Dec. 2, 1941, water-stage recorder at site 1 mi (1.6 km) upstream at different datum. Dec. 3, 1941, to Sept. 30, 1959, water-stage recorder at datum 2.00 ft (0.610 m) higher. Jan. 30 to Mar. 26, 1969, nonrecording gage at bridge at same datum.

AVERAGE DISCHARGE.--74 years, 163 ft<sup>3</sup>/s (4.616 m<sup>3</sup>/s), 118,100 acre-ft/yr (146 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 21,700 ft<sup>3</sup>/s (615 m<sup>3</sup>/s) Feb. 2 (gage height, 14.17 ft or 4.319 m); minimum daily, 4.8 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) Sept. 7, 10, 24, 26-28.

Period of record: Maximum discharge, 28,300 ft<sup>3</sup>/s (801 m<sup>3</sup>/s) Apr. 3, 1958 (gage height, 16.40 ft or 4.999 m, present datum), from rating curve extended above 12,000 ft<sup>3</sup>/s (340 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 16.30 ft (4.968 m); no flow at times during several years.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.7	17	20	87	2910	188	415	177	74	37	13	8.7
2	5.8	16	20	77	8340	175	386	175	73	37	12	8.2
3	6.6	16	1590	68	1120	167	362	167	73	36	13	7.8
4	7.9	15	1100	63	1060	160	350	160	71	36	10	7.4
5	8.9	15	202	59	909	162	534	160	68	36	10	5.9
6	9.0	15	123	56	626	410	449	155	68	35	10	5.1
7	8.6	15	91	55	509	5470	402	150	67	33	10	4.8
8	8.6	15	74	55	476	3680	386	143	64	32	10	5.9
9	8.6	15	62	58	2330	1910	370	139	61	31	10	5.1
10	8.6	16	55	55	2400	1370	346	136	58	29	10	4.8
11	9.1	17	50	52	1440	1140	335	130	56	27	10	5.9
12	8.6	17	46	50	1020	896	316	128	56	26	8.7	7.8
13	8.1	17	43	48	1320	863	302	121	53	26	8.7	7.8
14	7.7	17	41	46	1140	929	288	119	50	26	8.7	7.8
15	7.7	17	39	45	883	763	281	117	48	26	8.7	7.4
16	8.6	17	37	44	727	896	278	115	48	30	8.2	7.4
17	7.2	17	36	42	605	745	275	111	46	32	8.2	7.4
18	7.2	18	36	40	509	670	258	105	46	30	9.6	5.9
19	6.8	18	35	39	440	594	245	102	47	27	10	5.5
20	7.2	18	34	38	398	564	239	100	48	23	12	5.5
21	7.2	19	32	37	354	476	234	100	47	23	13	5.1
22	7.2	50	32	36	316	1860	221	94	45	20	12	6.3
23	7.7	39	32	36	288	984	215	92	41	19	12	5.1
24	8.1	28	31	35	265	800	212	90	40	17	10	4.8
25	8.6	24	31	34	245	800	221	89	41	16	9.6	5.1
26	9.6	22	31	33	227	704	212	87	40	14	9.6	4.8
27	10	21	34	32	212	626	204	86	40	13	9.6	4.8
28	11	21	425	32	201	574	198	84	38	13	9.1	4.8
29	20	20	212	32	---	514	190	83	37	13	8.7	5.1
30	24	20	133	32	---	486	185	80	37	14	7.8	5.1
31	19	---	105	33	---	449	---	78	---	14	8.7	---
TOTAL	288.9	592	4832	1449	31270	30025	8909	3673	1581	791	310.9	183.1
MEAN	9.32	19.7	156	46.7	1117	969	297	118	52.7	25.5	10.0	6.10
MAX	24	50	1590	87	8340	5470	534	177	74	37	13	8.7
MIN	5.7	15	20	32	201	160	185	78	37	13	7.8	4.8
AC-FT	573	1170	9580	2870	62020	59550	17670	7290	3140	1570	617	363
CAL YR 1974	TOTAL	67914.2	MEAN 186	MAX 3220	MIN 4.1	AC-FT 134700						
WTR YR 1975	TOTAL	83904.9	MEAN 230	MAX 8340	MIN 4.8	AC-FT 166400						

Peak discharge (base, 2,500 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
12-3	2230	9.21	5,650	3-7	1715	10.89	12,300
2-2	0400	14.17	21,700	3-22	0400	7.52	4,390
2-10	0430	6.99	3,570				

## SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.  
(National stream-quality accounting network station)

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

DRAINAGE AREA.--4,156 mi<sup>2</sup> (10,764 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--46 years (1929-75), 408 ft<sup>3</sup>/s (11.55 m<sup>3</sup>/s), 295,600 acre-ft/yr (364 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 7,550 ft<sup>3</sup>/s (214 m<sup>3</sup>/s) Feb. 2 (gage height, 11.68 ft or 3.560 m); minimum daily, 1.1 ft<sup>3</sup>/s (0.031 m<sup>3</sup>/s) June 17.

Period of record: Maximum discharge, 83,100 ft<sup>3</sup>/s (2,350 m<sup>3</sup>/s) Feb. 26, 1969 (gage height, 26.51 ft or 8.080 m, site and datum then in use); maximum gage height, 26.85 ft (8.184 m) Jan. 16, 1952, site and datum then in use from floodmarks; no flow at times in 1929-40.

REMARKS.--Records good. Large withdrawals from ground water and small surface-water diversions for municipal use and irrigation of about 95,000 acres (384 km<sup>2</sup>) above station. Low flow represents waste water from Spreckels sugar refinery and Alisal sewage disposal plant. Flow partly regulated by Nacimiento Reservoir beginning in February 1957 (see sta 11149300) and San Antonio Reservoir beginning in December 1965 (see sta 11150100).

REVISIONS (WATER YEARS).--WSP 1565: 1930, 1935, 1945. WSP 1715: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	240	39	83	64	415	623	132	4.5	5.4	14	20
2	152	245	38	80	2750	386	546	119	4.4	6.7	11	24
3	154	248	45	78	3080	366	498	108	5.2	6.5	6.4	28
4	157	253	171	76	1120	346	456	101	3.9	4.3	4.0	32
5	164	255	543	74	1270	330	452	94	3.5	3.0	4.1	33
6	171	261	163	76	2730	312	605	79	3.9	2.4	5.6	32
7	180	266	107	72	3380	475	567	71	3.3	2.2	5.0	30
8	187	272	90	71	3330	4020	546	60	3.0	2.1	3.2	31
9	192	237	79	67	3600	3020	559	52	3.2	2.0	2.0	38
10	197	178	96	66	4750	2440	534	45	2.5	1.9	1.9	47
11	201	148	144	64	4710	1970	480	39	2.5	1.9	1.7	53
12	203	127	203	73	4400	1690	441	34	1.9	2.0	1.8	56
13	205	112	297	112	3800	1460	404	31	2.0	1.9	1.8	60
14	207	99	286	147	3880	1490	383	30	1.8	1.8	1.8	67
15	210	89	294	169	3500	1460	359	28	1.5	1.8	3.4	74
16	210	81	303	192	2180	1340	342	25	1.2	1.8	3.8	88
17	207	75	309	207	1490	1410	314	22	1.1	1.8	3.9	99
18	201	70	312	187	1280	1220	300	18	5.6	1.7	6.1	105
19	201	66	269	148	1160	1140	279	15	11	1.8	9.8	112
20	201	62	201	127	1160	1020	265	14	15	1.7	15	116
21	203	60	169	112	1090	932	247	12	19	1.7	19	127
22	207	57	148	101	994	1100	232	11	23	1.8	21	143
23	209	53	134	91	894	1810	214	9.0	22	1.8	21	168
24	207	51	122	83	739	1360	206	7.6	21	2.3	20	184
25	205	49	114	76	614	1380	196	5.9	19	10	20	185
26	209	47	107	71	534	1270	191	5.7	17	13	22	181
27	209	45	103	65	498	1100	182	6.2	15	15	23	173
28	220	43	103	63	452	977	173	6.1	13	14	22	175
29	232	42	95	60	---	872	166	5.8	9.5	16	19	190
30	235	40	93	56	---	773	147	5.3	7.9	18	17	206
31	242	---	87	55	---	700	---	4.8	---	18	18	---
TOTAL	6120	3871	5264	3002	59453	38584	10907	1196.4	247.4	166.3	328.3	2877
MEAN	197	129	170	96.8	2123	1245	364	38.6	8.25	5.36	10.6	95.9
MAX	242	272	543	207	4750	4020	623	132	23	18	23	206
MIN	142	40	38	55	64	312	147	4.8	1.1	1.7	1.7	20
AC-FT	12140	7680	10440	5950	117900	76530	21630	2370	491	330	651	5710
CAL YR 1974 TOTAL	175578.9			MEAN 481	MAX 7450	MIN 1.4	AC-FT 348300					
WTR YR 1975 TOTAL	132016.4			MEAN 362	MAX 4750	MIN 1.1	AC-FT 261900					

## 11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1952-54 (partial-record station), October 1958 to September 1966, water years 1967-70, 1972 to current year (partial-record station). Published as sta 11152300 "near Chualar" in 1967.

Specific conductance: October 1974 to September 1975.

Water temperatures: December 1966 to current year. Published as sta 11152300 "near Chualar" in 1967-69.

Sediment records: Water years 1950-51 (partial-record station), December 1966 to current year. Published as sta 11152300 "near Chualar" in 1967-69.

Turbidity: Water year 1973 (partial-record station).

## EXTREMES.--Current year:

Sediment concentrations: Maximum daily, 2,890 mg/l Mar. 10; minimum daily, 6 mg/l May 24.

Sediment discharge: Maximum daily, 26,500 tons (24,000 tonnes) Mar. 8; minimum daily, 0.05 ton

(0.04 tonne) Aug. 9.

Period of record:

Sediment concentrations: Maximum daily, 18,900 mg/l Feb. 25, 1969; minimum daily, no flow for several days in 1968.

Sediment discharge: Maximum daily, 2,790,000 tons (2,531,000 tonnes) Feb. 26, 1969; minimum daily, 0 tons (0 tonnes) on several days in 1968.

REMARKS.--The letter "A" following a date indicates chemical-quality data furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDE MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)
OCT.											
02...	1330	152	152	15	2600	20	50	50	0	35	16
NOV.											
12...	1100	127	127	--	--	--	--	--	--	--	--
DEC.											
12...	1330	203	203	--	--	--	--	--	--	--	--
18...A	1500	312	312	--	--	--	--	--	--	36	--
JAN.											
06...	1335	76	78	--	--	--	--	--	--	--	--
15...	1115	169	171	--	--	--	--	--	--	--	--
FEB.											
03...	1445	3080	2370	12	--	--	--	--	--	34	15
11...	1415	4710	4510	--	--	--	--	--	--	--	--
MAR.											
06...	1400	287	298	20	2000	20	30	30	0	75	33
APR.											
07...	1315	567	530	--	--	--	--	--	--	--	--
29...	1200	166	159	--	--	--	--	--	--	--	--
MAY											
28...	1300	6.1	6.5	21	440	40	240	70	170	80	44
AUG.											
11...	1400	1.7	2.0	41	--	--	--	--	--	69	37
SEP.											
09...	1130	38	37	12	--	--	--	--	--	42	19

DATE	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (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)
OCT.										
02...	18	2.1	140	--	115	46	14	.2	--	--
NOV.										
12...	--	--	--	--	--	--	--	--	--	--
DEC.										
12...	--	--	--	--	--	--	--	--	--	--
18...	18	--	146	0	120	55	12	--	--	--
JAN.										
06...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
FEB.										
03...	44	2.9	95	--	78	150	16	.4	.46	.01
11...	--	--	--	--	--	--	--	--	--	--
MAR.										
06...	56	3.5	234	0	192	170	46	.1	--	--
APR.										
07...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
MAY										
28...	89	12	337	0	276	150	91	.3	--	--
AUG.										
11...	130	13	261	0	214	140	160	.4	--	--
SEP.										
09...	23	2.5	171	0	140	68	20	.2	--	--

## SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN IN BOTTOM MATERI- AL (N) (MG/KG)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L)
OCT.										
02...	.27	--	--	--	.57	.84	30	.24	--	--
NOV.										
12...	.66	--	--	--	.21	.87	--	.20	--	--
DEC.										
12...	.33	--	--	--	1.2	1.5	--	.66	--	--
18...	--	--	--	--	--	--	--	--	--	--
JAN.										
06...	2.1	--	--	--	.77	2.9	--	.52	--	--
15...	--	--	--	--	--	--	--	--	--	--
FEB.										
03...	--	.47	.23	9.8	10	--	--	4.0	.12	.04
11...	.20	--	--	--	1.2	1.4	--	.56	--	--
MAR.										
06...	1.7	--	--	--	.75	2.5	--	.21	--	--
APR.										
07...	.96	--	--	--	.32	1.3	--	.24	--	--
29...	2.8	--	--	--	.69	3.5	--	--	--	--
MAY										
28...	3.2	--	--	--	4.0	7.2	--	3.8	--	--
AUG.										
11...	19	--	--	--	12	31	--	14	--	--
SEP.										
09...	.99	--	--	--	1.2	2.2	--	.86	--	--

DATE	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
OCT.										
02...	1070	229	215	.31	94.0	150	38	20	.6	215
NOV.										
12...	--	--	--	--	--	--	--	--	--	611
DEC.										
12...	--	--	--	--	--	--	--	--	--	352
18...	--	230	--	.31	194	157	37	--	--	352
JAN.										
06...	--	--	--	--	--	--	--	--	--	973
15...	--	--	--	--	--	--	--	--	--	373
FEB.										
03...	--	335	321	.46	2790	150	69	39	1.6	181
11...	--	--	--	--	--	--	--	--	--	276
MAR.										
06...	--	531	519	.72	411	320	130	27	1.4	787
APR.										
07...	--	--	--	--	--	--	--	--	--	628
29...	--	--	--	--	--	--	--	--	--	998
MAY										
28...	--	671	654	.91	11.1	380	100	33	2.0	1100
AUG.										
11...	--	802	719	1.09	3.68	320	110	45	3.1	1270
SEP.										
09...	--	272	271	.37	27.9	180	43	21	.7	460



11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)
OCT. 02...	8.2	19.5	20	--	--	1.4	--	--	6.5	<.1
NOV. 12...	8.2	13.0	--	--	--	--	88	840	--	--
DEC. 12...	8.0	12.0	--	--	--	--	814	87	--	--
18...	8.1	10.5	--	12.0	108	1.9	--	--	--	--
JAN. 06...	8.4	10.0	--	--	--	--	--	--	--	--
15...	--	9.5	--	--	--	--	33	88	--	--
FEB. 03...	7.9	11.0	0	--	--	1.9	--	--	320	--
11...	8.0	15.0	--	--	--	--	440	400	--	--
MAR. 06...	8.1	14.0	30	--	--	2.8	813	820	--	--
APR. 07...	--	12.0	--	--	--	--	863	837	--	--
29...	8.5	17.5	--	--	--	--	77	20	--	--
MAY 28...	8.3	27.5	7	--	--	2.7	550	860	16	--
AUG. 11...	7.4	23.0	15	--	--	15	370	0	--	--
SEP. 09...	8.0	17.0	2	--	--	2.7	8160	160	--	--

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

## BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

## PHYTOPLANKTON

DATE	TIME	PHYLUM CLASS ORDER FAMILY GENUS SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
OCT 2	1330	CHRYSTOPHYTA BACILLARIOPHYCEAE CENTRALES COSCINODISCACEAE CYCLOTELLA PENNATES ACHNANTHACEAE COCONEIS EUNOTIACEAE EUNOTIA GOMPHONEMACEAE GOMPHONEMA NAVICULACEAE STAUROISE NITZSCHIA NITZSCHIA CYANOPHYTA MYXOPHYCEAE CHROOCOCCALES CHROOCOCCACEAE AGMENELLUM	YELLOW-GREEN ALGAE DIATOMS CENTRIC  PENNATE    NAVICULOID    BLUE-GREEN ALGAE	   2100   150 9500 150 150 900	   26   1 63 1 1 11
TOTAL PHYTOPLANKTON				15000	15

## SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued  
 BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		PHYTOPLANKTON			
DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		.CLASS .ORDER ...FAMILY ....GENUS .....SPECIES			
NOV 12	1100	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...OOCYSTACEAE			
		....ANKISTRODESMUS		42	2
		...SCENEDESMACEAE			
		....SCENEDESMUS		42	2
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		....CYCLOTELLA		42	2
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		42	2
		...COCCONEIS		150	7
		..DIATOMACEAE			
		...DIATOMA		110	5
		...FRAGILARIACEAE			
		....FRAGILARIA		630	30
		...GOMPHONEMACEAE			
		....GOMPHONEMA		110	5
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		400	19
		...NITZSCHACEAE			
		....NITZSCHIA		550	26
		TOTAL PHYTOPLANKTON		2100	
DEC 12	1330	CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		....MELOSIRA		3500	14
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....COCCONEIS		500	2
		...CYMBELLACEAE			
		....EPITHEMIA		1000	4
		..DIATOMACEAE			
		...DIATOMA		500	2
		...FRAGILARIACEAE			
		....FRAGILARIA		11000	43
		...GOMPHONEMACEAE			
		....GOMPHONEMA		250	1
		...NITZSCHACEAE			
		....NITZSCHIA		2800	11
		CYANOPHYTA	BLUE-GREEN ALGAE		
		.MYXOPHYCEAE			
		..OSCILLATORIALES	FILAMENTOUS		
		...NOSTOCACEAE			
		....ANABAENA		5800	23
		TOTAL PHYTOPLANKTON		25000	
JAN 6	1335	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..VOLVOCALES			
		...CHLAMYDOMONADACEAE			
		....CHLAMYDOMONAS		98	2
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		....CYCLOTELLA		49	1
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		49	1
		...CYMBELLACEAE			
		....AMPHORA		49	1
		...FRAGILARIACEAE			
		....FRAGILARIA		1900	38
		...GOMPHONEMACEAE			
		....GOMPHONEMA		49	1
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		150	3
		...NITZSCHACEAE			
		....NITZSCHIA		150	3
		...SURIPELLACEAE		390	8
		....SURIPELLA		250	5
		CYANOPHYTA	BLUE-GREEN ALGAE		
		.MYXOPHYCEAE			
		..OSCILLATORIALES			
		...OSCILLATORIAACEAE			
		....LYNGBYA		1900	38
		TOTAL PHYTOPLANKTON		4900	

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BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PHYLUM

DATE	TIME	PHYTIUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES	PHYTOPLANKTON  COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
FEB 3	1430	CHRYSTOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	Diatoms		
		..PENNATAES	Pennate		
		...CYMBELLACEAE			
		....RHODALDIA		420	8
		...FRAGILARIAEAE			
		....FRAGILARIA		1700	33
		...SYNEDRA		420	8
		...GOMPHONEMATAEAE			
		....GOMPHONEMA		420	8
		...NAVICULACEAE	Naviculoid		
		....GYROSIGMA		420	8
		...NAVICULA		420	8
		...NITZSCHIAEAE			
		....NITZSCHIA		1300	25
		TOTAL PHYTOPLANKTON		5300	
FEB 11	1415	CHRYSTOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	Diatoms		
		..CENTRALES	Centric		
		...COSCONODISCACEAE			
		....MELOSIRA			
		..PENNATAES	Pennate	48	1
		...DIATOMACEAE			
		....DIATOMA		96	2
		...EUNOTIAEAE			
		....EUNOTIA		3400	70
		...FRAGILARIAEAE			
		...ASTERIONELLA		380	8
		...SYNEDRA		140	3
		...NAVICULACEAE	Naviculoid		
		...PINNULARIA		48	1
		...SURIRELLACEAE			
		....SURIRELLA		96	2
		CYANOPHYTA	BLUE-GREEN ALGAE		
		.MYXOPHYCEAE			
		..OSCILLATORIALES			
		...OSCILLATORIAEAE			
		....OSCILLATORIA		670	14
		TOTAL PHYTOPLANKTON		4800	
MAR 6	1400	CHRYSTOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	Diatoms		
		..CENTRALES	Centric		
		...BIDDULPHIAEAE			
		....BIDDULPHIA		15	1
		...COSCONODISCACEAE			
		....MELOSIRA		45	3
		..PENNATAES	Pennate		
		...ACHNANTHACEAE			
		....RHOICOSPHEMIA		45	3
		...DIATOMACEAE			
		....DIATOMA		15	1
		...FRAGILARIAEAE			
		...FRAGILARIA		1000	68
		...SYNEDRA		15	1
		...GOMPHONEMATAEAE			
		....GOMPHONEMA		15	1
		...NAVICULACEAE	Naviculoid		
		...NAVICULA		75	5
		...NITZSCHIAEAE			
		....NITZSCHIA		120	8
		...SURIRELLACEAE			
		...CYMATOPEURA		15	1
		...SURIRELLA		15	1
		EUGLENOPHYTA			
		.CRYPTOPHYCEAE			
		..CRYPTOMONADALES			
		...CRYPTOMONADACEAE			
		....CRYPTOMONAS		15	1
		PYRRHOPHYTA			
		.DINOPHYCEAE			
		..PERIDINIALES			
		...GLENODINIACEAE			
		....GLENODINIUM		45	3
		TOTAL PHYTOPLANKTON		1500	

## SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued  
 BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		PHYTOPLANKTON			
DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		.CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES			
APR 7	1315	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...OOCYSTACEAE			
		....ANKISTRODESMUS		100	5
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	DIATOMS		
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....COCCONEIS		100	5
		...FRAGILARIACEAE			
		....FRAGILARIA		180	9
		...GOMPHONEMACEAE			
		....GOMPHONEMA		180	9
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		900	45
		...NITZSCHIACEAE			
		....NITZSCHIA		460	23
		...SURIPELLACEAE			
		....SURIELLA		100	5
		TOTAL PHYTOPLANKTON		2000	
APR 29	1200	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..VOLVOCALES			
		...CHLAMYDOMONADACEAE			
		....CHLAMYDOMONAS		260	13
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	DIATOMS		
		..PENNALES	PENNATE		
		...CYMBELLACEAE			
		....AMPHORA		60	3
		...FRAGILARIACEAE			
		....SYNEDRA		400	20
		...GOMPHONEMACEAE			
		....GOMPHONEMA		60	3
		...NITZSCHIACEAE			
		....NITZSCHIA		1100	57
		...SURIPELLACEAE			
		....SURIELLA		60	3
		TOTAL PHYTOPLANKTON		2000	
MAY 28	1300	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..VOLVOCALES			
		...CHLAMYDOMONADACEAE			
		....CHLAMYDOMONAS		220	2
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		....MELOSIRA		220	2
		..PENNALES	PENNATE		
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		660	6
		...NITZSCHIACEAE			
		....NITZSCHIA		9700	88
		EUGLENOPHYTA			
		.EUGLENOPHYCEAE			
		..EUGLENALES			
		...EUGLENACEAE			
		....EUGLENA		220	2
		TOTAL PHYTOPLANKTON		11000	

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued  
 BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		PHYTOPLANKTON			
DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		.CLASS .ORDER ...FAMILY ....GENUS .....SPECIES			
AUG 11	1400	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...MICRACTINIACEAE			
		....MICRACTINIUM		270	5
		...SCENEDESMACEAE			
		....SCENEDESMUS		1100	20
		..VOLVOCALES			
		...CHLAMYDOMONADACEAE			
		....CHLAMYDOMONAS		460	8
		CHRYSTOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE	DIATOMS CENTRIC		
		....CYCLOTELLA		92	2
		..PENNALES			
		...GOMPHONEMACEAE	PENNATE		
		....GOMPHONEMA		180	3
		...NAVICULACEAE			
		....NAVICULA	NAVICULOID	270	5
		...NITZSCHIACEAE			
		....NITZSCHIA		1000	19
		CYANOPHYTA	BLUE-GREEN ALGAE		
		.MYXOPHYCEAE			
		..OSCILLATORIALES			
		...NOSTOCACEAE	FILAMENTOUS		
		....ANABAENA		1900	36
		EUGLENOPHYTA			
		.EUGLENOPHYCEAE			
		..EUGLENALES			
		...EUGLENACEAE			
		....EUGLENA		92	2
		TOTAL PHYTOPLANKTON		5400	

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PERIPHYTON							
Date	Length of exposure (days)	Biomass (g/m <sup>2</sup> )		Chlorophyll <sup>a</sup>	Chlorophyll <sup>b</sup>	Biomass pigment ratio	Sampling method
		Dry weight	Ash weight	(mg/m <sup>2</sup> )	(mg/m <sup>2</sup> )		
Nov. 12	41	5.4	4.6	25	3.2	32	Polyethylene strip
May 28	83	10	5.5	79	31	57	Polyethylene strip

## SALINAS RIVER BASIN

11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
OCT. 02...	1330	--	.0	--	0	--	1.3	--	1.8	--	1.5	--
FEB. 03...	1445	.00	--	.0	--	.01	--	.01	--	.01	--	.00
MAR. 06...	1400	.00	--	.0	--	.00	--	.00	--	.00	--	.00
MAY 28...	1300	.00	--	.1	--	.00	--	.00	--	.02	--	.03

DATE	TIME	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)
OCT. 02...	--	--	.4	--	.0	--	--	.0	--	.0	--	.0	--
FEB. 03...	.02	--	--	.00	--	.00	.00	--	.00	--	.00	--	.00
MAR. 06...	.00	--	--	.00	--	.00	.00	--	.00	--	.00	--	.00
MAY 28...	.02	--	--	.00	--	--	.00	--	.00	--	.05	--	.00

DATE	TIME	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT. 02...	--	--	--	--	--	2	--	0	--	--	--	--
FEB. 03...	.00	.00	.00	.0	--	0	--	.00	.00	.00	.00	.01
MAR. 06...	.00	.00	.00	.0	--	0	--	.00	.00	.00	.00	.00
MAY 28...	.00	--	.00	.0	--	0	--	--	--	--	--	--

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE D ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)
OCT. 02...	1330	2	0	2	1	--	--	--	<1	1
DEC. 18...A	1500	--	--	--	--	100	--	--	--	--
FEB. 03...	1445	220	220	3	--	--	20	19	1	--
MAR. 06...	1400	3	1	2	--	--	<10	<10	0	--
MAY 28...	1300	3	0	3	--	--	<10	<10	0	--

## SALINAS RIVER BASIN

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11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL CHROMIUM (CR) (UG/L)	SUS- PENDE CHROMIUM (CR) (UG/L)	DIS- SOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MA- TERIAL (UG/G)	HEXA- VALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS- PENDE COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
OCT. 02...	0	0	0	10	--	<50	<50	0	5	<10
DEC. 18...	--	--	--	--	--	--	--	--	--	--
FEB. 03...	1100	--	--	--	0	450	450	0	--	820
MAR. 06...	0	0	0	--	--	<50	<50	0	--	30
MAY 28...	10	10	0	--	--	<50	<50	0	--	20

DATE	SUS- PENDE COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE MERCURY (HG) (UG/L)
OCT. 02...	<8	2	2	<100	<100	0	<10	.1	.0
DEC. 18...	--	--	--	--	--	--	--	--	--
FEB. 03...	740	80	--	300	300	2	--	1.0	.9
MAR. 06...	28	2	--	<100	<98	2	--	.2	.2
MAY 28...	10	10	--	<100	<98	2	--	.0	.0

DATE	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	SUS- PENDE SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 02...	.1	.0	0	0	0	30	20	10	12
DEC. 18...	--	--	--	--	--	--	--	--	--
FEB. 03...	.1	--	--	--	--	1600	1600	40	--
MAR. 06...	.0	--	2	0	2	40	40	0	--
MAY 28...	.1	--	1	0	1	80	70	10	--

## 11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C); WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

[illegible]

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

[illegible]



11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	142	79	30	240	103	67	39	11	1.2
2	152	78	32	245	75	50	38	13	1.3
3	154	74	31	248	94	63	45	37	4.5
4	157	66	28	253	140	96	171	275	423
5	164	65	29	255	122	84	543	453	816
6	171	83	38	261	116	82	163	260	114
7	180	91	44	266	148	106	107	245	71
8	187	86	43	272	92	68	90	220	53
9	192	82	43	237	62	40	79	195	42
10	197	90	48	178	45	22	96	460	119
11	201	122	66	148	42	17	144	1220	474
12	203	118	65	127	41	14	203	890	488
13	205	112	62	112	42	13	297	732	587
14	207	108	60	99	34	9.1	286	398	307
15	210	109	62	89	27	6.5	294	284	225
16	210	112	64	81	22	4.8	303	247	202
17	207	110	61	75	17	3.4	309	369	308
18	201	119	65	70	16	3.0	312	420	354
19	201	109	59	66	17	3.0	269	170	123
20	201	93	50	62	17	2.8	201	113	61
21	203	83	45	60	19	3.1	169	98	45
22	207	80	45	57	18	2.8	148	101	40
23	209	82	46	53	17	2.4	134	100	36
24	207	94	53	51	15	2.1	122	92	30
25	205	110	61	49	14	1.9	114	84	26
26	209	115	65	47	12	1.5	107	76	22
27	209	118	67	45	10	1.2	103	68	19
28	220	132	78	43	12	1.4	103	62	17
29	232	162	101	42	14	1.6	95	61	16
30	235	210	133	40	13	1.4	93	70	18
31	242	205	134	---	---	---	87	90	21
MONTH	6120	---	1808	3871	---	774.0	5264	---	5064.0
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	83	107	24	64	38	6.9	415	145	162
2	80	117	25	2750	1390	18000	386	141	147
3	78	112	24	3080	1540	14100	366	136	134
4	76	94	19	1120	760	2300	346	131	122
5	74	74	15	1270	2070	9310	330	126	112
6	76	68	14	2730	2210	16000	312	113	95
7	72	85	17	3380	1140	10400	475	547	748
8	71	98	19	3330	640	5750	4020	2320	26500
9	67	70	13	3600	915	9870	3020	1990	16100
10	66	26	4.6	4750	1570	20200	2440	2890	19400
11	64	17	2.9	4710	1310	16700	1970	1600	8680
12	73	39	7.7	4400	1130	13400	1690	760	3470
13	112	118	36	3800	970	9950	1460	590	2330
14	147	164	65	3880	890	9320	1490	990	3980
15	169	192	88	3500	860	8130	1460	1050	4140
16	192	215	111	2180	835	4910	1340	930	3360
17	207	220	123	1490	810	3260	1410	910	3530
18	187	205	104	1280	790	2730	1220	620	2040
19	148	164	66	1160	820	2570	1140	580	1790
20	127	118	40	1160	370	1160	1020	550	1510
21	112	63	19	1090	415	1220	932	530	1330
22	101	43	12	994	485	1300	1100	608	2010
23	91	41	10	894	560	1350	1810	1290	6300
24	83	39	8.7	739	670	1340	1360	840	3080
25	76	36	7.4	614	560	928	1380	1050	3910
26	71	28	5.4	538	440	639	1270	640	2190
27	65	20	3.5	498	260	350	1100	470	1400
28	63	17	2.9	452	160	195	977	400	1060
29	60	17	2.8	---	---	---	872	370	871
30	56	21	3.2	---	---	---	773	330	689
31	55	26	3.9	---	---	---	700	300	567
MONTH	3002	---	897.0	59453	---	185388.9	38584	---	121757

SUSPENDED=SEDIMENT DISCHARGE (TONS/DAY); WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	623	310	521	132	94	34	4.5	17	.21
2	546	330	486	119	75	24	4.4	18	.21
3	498	320	430	108	70	20	5.2	18	.25
4	456	280	345	101	70	19	3.9	19	.20
5	452	240	293	94	68	17	3.5	19	.18
6	605	310	506	79	61	13	3.9	18	.19
7	567	270	413	71	53	10	3.3	18	.16
8	546	444	655	60	47	7.6	3.0	17	.14
9	559	352	531	52	32	4.5	3.2	17	.15
10	534	281	405	45	30	3.6	2.5	16	.11
11	480	238	308	39	30	3.2	2.5	16	.11
12	441	226	269	34	37	3.4	1.9	16	.08
13	404	225	245	31	68	5.7	2.0	18	.10
14	383	215	222	30	128	10	1.8	26	.13
15	359	186	180	28	163	12	1.5	39	.16
16	342	156	144	25	152	10	1.2	42	.14
17	314	140	119	22	108	6.4	1.1	39	.12
18	300	132	107	18	71	3.5	5.6	36	.54
19	279	128	96	15	52	2.1	11	33	.98
20	265	148	106	14	50	1.9	15	31	1.3
21	247	157	105	12	63	2.0	19	31	1.6
22	232	116	73	11	57	1.7	23	34	2.1
23	214	78	45	9.0	16	.39	22	39	2.3
24	206	90	50	7.6	6	.12	21	42	2.4
25	196	140	74	5.9	7	.11	19	38	2.0
26	191	165	85	5.7	9	.14	17	32	1.5
27	182	169	83	6.2	12	.20	15	25	1.0
28	173	146	68	6.1	16	.26	13	20	.70
29	166	90	40	5.8	16	.25	9.5	16	.41
30	147	98	39	5.3	16	.23	7.9	12	.26
31	---	---	---	4.8	16	.21	---	---	---
MONTH	10907	---	7043	1196.4	---	216.51	247.4	---	19.73
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5.4	10	.15	14	15	.57	20	44	2.4
2	6.7	9	.16	11	15	.45	24	49	3.2
3	6.5	9	.16	6.4	16	.28	28	50	3.8
4	4.3	9	.10	4.0	17	.18	32	52	4.5
5	3.0	9	.07	4.1	18	.20	33	50	4.5
6	2.4	10	.06	5.6	16	.24	32	46	4.0
7	2.2	10	.06	5.0	12	.16	30	38	3.1
8	2.1	10	.06	3.2	9	.08	31	32	2.7
9	2.0	11	.06	2.0	10	.05	38	42	4.3
10	1.9	11	.06	1.9	12	.06	47	45	5.7
11	1.9	11	.06	1.7	14	.06	53	47	6.7
12	2.0	12	.06	1.8	18	.09	56	48	7.3
13	1.9	12	.06	1.8	21	.10	60	54	8.7
14	1.8	12	.06	1.8	23	.11	67	62	11
15	1.8	14	.07	3.4	24	.22	74	69	14
16	1.8	16	.08	3.8	25	.26	88	68	16
17	1.8	16	.08	3.9	26	.27	99	64	17
18	1.7	18	.08	6.1	27	.44	105	56	16
19	1.8	18	.09	9.8	28	.74	112	50	15
20	1.7	22	.10	15	29	1.2	116	48	15
21	1.7	22	.10	19	30	1.5	127	46	16
22	1.8	21	.10	21	31	1.8	143	47	18
23	1.8	20	.10	21	31	1.8	168	60	27
24	2.3	19	.12	20	30	1.6	184	79	39
25	10	16	.43	20	29	1.6	185	81	40
26	13	15	.53	22	29	1.7	181	81	40
27	15	14	.57	23	32	2.0	173	76	35
28	14	13	.49	22	35	2.1	175	67	32
29	16	13	.56	19	33	1.7	190	57	29
30	18	13	.63	17	31	1.4	206	47	26
31	18	14	.68	18	36	1.8	---	---	---
MONTH	166.3	---	5.99	328.3	---	24.76	2877	---	466.9
YEAR 132016.4			323465.8						

## SALINAS RIVER BASIN

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11152500 SALINAS RIVER NEAR SPRECKELS, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
DEC.										
05...	1400	12.5	377	331	337	--	--	--	--	--
10...	1335	9.5	95	475	122	56	77	91	99	99
12...	1335	12.0	201	853	463	50	66	86	94	96
14...	1600	12.0	288	361	281	38	48	58	63	64
JAN.										
13...	0730	7.0	102	107	29	--	--	--	--	--
FEB.										
02...	1800	10.0	6290	2580	43800	31	41	52	62	68
03...	0730	9.0	3480	1720	16200	30	39	48	56	61
05...	1520	12.0	1640	3520	15600	47	63	77	88	94
06...	1410	8.5	2800	1860	14100	13	50	64	78	87
11...	1330	13.0	4510	1280	15600	25	32	40	45	49
21...	1600	12.5	1060	423	1210	--	--	--	--	--
MAR.										
06...	1330	14.0	309	109	91	--	--	--	--	--
13...	1645	11.0	1450	541	2120	23	30	39	47	53
DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	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 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
DEC.										
05...	--	40	--	42	--	66	--	98	100	--
10...	--	99	--	100	--	--	--	--	--	--
12...	--	96	--	97	--	99	--	100	--	--
14...	--	64	--	66	--	85	--	99	100	--
JAN.										
13...	--	88	--	91	--	99	--	100	--	--
FEB.										
02...	71	--	78	--	98	--	100	--	--	--
03...	65	--	73	--	97	--	100	--	--	--
05...	95	--	97	--	100	--	--	--	--	--
06...	89	--	92	--	96	--	100	--	--	--
11...	--	51	--	57	--	82	--	92	96	98
21...	--	26	--	31	--	83	--	100	--	--
MAR.										
06...	--	41	--	45	--	76	--	99	100	--
13...	--	57	--	61	--	93	--	100	--	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
NOV.							
21...	1500	14.5	1	61	3	15	69
21...	1505	14.5	1	61	--	--	5
21...	1510	14.5	1	61	--	--	3
21...	1515	14.5	1	61	--	2	18
21...	1520	14.5	1	61	1	4	40
21...	1525	14.5	1	61	2	6	38
21...	1530	14.5	1	61	5	16	57
21...	1535	14.5	1	61	2	9	52
21...	1540	14.5	1	61	--	1	8
DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM
NOV.							
21...		97	97	100	--	--	--
21...		32	38	97	99	100	--
21...		5	100	--	--	--	--
21...		69	97	99	99	100	--
21...		92	98	100	--	--	--
21...		94	99	99	100	--	--
21...		93	96	98	99	100	--
21...		96	98	99	99	100	--
21...		13	19	31	54	78	100

## SALINAS RIVER BASIN

11152540 EL TORO CREEK NEAR SPRECKELS, CALIF.

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

DRAINAGE AREA.--31.9 mi<sup>2</sup> (82.6 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--14 years, 1.64 ft<sup>3</sup>/s (0.0464 m<sup>3</sup>/s), 1,190 acre-ft/yr (1.47 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 52 ft<sup>3</sup>/s (1.47 m<sup>3</sup>/s) Mar. 14 (gage height, 3.83 ft or 1.167 m); minimum daily, 0.05 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) June 29, July 1.

Period of record: Maximum discharge, 626 ft<sup>3</sup>/s (17.7 m<sup>3</sup>/s) Jan. 26, 1969 (gage height, 5.99 ft or 1.826 m), from rating curve extended above 93 ft<sup>3</sup>/s (2.63 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow for many days in most years.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.16	.20	.29	2.6	.38	2.2	.26	.26	.05	.06	.11
2	.36	.15	.33	.30	.71	.38	1.8	.20	.13	.08	.06	.11
3	.13	.15	.90	.29	.34	.38	1.6	.26	.20	.09	.06	.11
4	.10	.16	.33	.26	.34	.38	1.7	.43	.11	.11	.09	.13
5	.11	.18	.27	.25	.30	.48	3.5	.38	.18	.09	.08	.20
6	.09	.17	.34	.41	.34	.48	2.8	.38	.20	.09	.06	.13
7	.11	.25	.22	.36	1.0	4.5	1.8	.30	.11	.09	.06	.09
8	.12	.20	.24	.61	.53	7.6	2.8	.30	.08	.08	.14	.11
9	.12	.18	.25	.30	.93	3.3	1.9	.26	.08	.08	.09	.11
10	.12	.18	.26	.29	.71	3.5	1.2	.26	.11	.08	.09	.13
11	.13	.18	.29	.29	.38	14	.71	.26	.11	.08	.09	.11
12	.13	.18	.29	.27	.34	5.8	.38	.20	.11	.09	.11	.15
13	.13	.15	.25	.24	2.0	13	.38	.20	.11	.06	.09	.11
14	.10	.16	.30	.24	.43	29	.30	.20	.11	.08	.11	.15
15	.10	.16	.30	.20	.38	15	.38	.20	.11	.11	.11	.11
16	.13	.17	.36	.20	.38	27	.30	.20	.08	.09	.09	.11
17	.13	.19	.34	.20	.34	14	.30	.26	.08	.09	.09	.11
18	.10	.19	.32	.16	.34	10	.30	.20	.06	.09	.15	.09
19	.13	.16	.31	.16	.38	7.3	.30	.20	.06	.08	.15	.11
20	.13	.15	.32	.24	.38	5.3	.30	.18	.06	.09	.11	.11
21	.13	.19	.30	.20	.38	4.7	.26	.20	.06	.08	.13	.11
22	.16	.16	.34	.20	.34	20	.26	.18	.08	.08	.13	.11
23	.16	.16	.29	.20	.38	8.3	.26	.18	.06	.08	.11	.09
24	.16	.22	.27	.20	.38	6.1	.26	.18	.06	.15	.11	.08
25	.13	.24	.31	.20	.34	14	.26	.18	.06	.13	.11	.08
26	.13	.23	.30	.20	.34	8.6	.26	.18	.06	.15	.18	.08
27	.13	.24	.35	.16	.34	6.7	.26	.13	.06	.20	.13	.09
28	.35	.24	.74	.24	.34	4.5	.26	.11	.06	.11	.13	.11
29	.24	.23	.31	.20	---	3.5	.26	.13	.05	.09	.18	.11
30	.16	.20	.31	.24	---	3.0	.26	.13	.06	.08	.11	.11
31	.18	---	.39	.29	---	2.6	---	.13	---	.08	.11	---
TOTAL	4.52	5.58	10.33	7.89	15.99	243.78	27.55	6.86	2.96	2.93	3.32	3.36
MEAN	.15	.19	.33	.25	.57	7.86	.92	.22	.099	.095	.11	.11
MAX	.36	.25	.90	.61	2.6	29	3.5	.43	.26	.20	.18	.20
MIN	.09	.15	.20	.16	.30	.38	.26	.11	.05	.05	.06	.08
AC-FT	9.0	11	20	16	32	484	55	14	5.9	5.8	6.6	6.7
CAL YR 1974	TOTAL	956.44	MEAN	2.62	MAX	87	MIN	.02	AC-FT	1900		
WTR YR 1975	TOTAL	335.07	MEAN	.92	MAX	29	MIN	.05	AC-FT	665		

Peak discharge (base, 20 ft<sup>3</sup>/s, revised)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
3-11	1115	3.62	34	3-22	0415	3.64	35
3-14	0415	3.83	52	3-25	1030	3.52	27
3-16	0400	3.75	44				

TEMLADERO SLOUGH BASIN

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11152600 GABILAN CREEK NEAR SALINAS, CALIF.

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

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

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

GAGE.--Water-stage recorder. Altitude of gage is 200 ft (61 m), from topographic map.

AVERAGE DISCHARGE.--5 years, 5.03 ft<sup>3</sup>/s (0.142 m<sup>3</sup>/s), 3,640 acre-ft/yr (4.49 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 81 ft<sup>3</sup>/s (2.29 m<sup>3</sup>/s) Mar. 22 (gage height, 7.27 ft or 2.216 m); no flow for many days.  
Period of record: Maximum discharge, 800 ft<sup>3</sup>/s (22.7 m<sup>3</sup>/s) Apr. 1, 1974 (gage height, 11.13 ft or 3.392 m), from rating curve extended above 260 ft<sup>3</sup>/s (7.36 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow for most of each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.20	0	.03	.48	1.0	12	3.0				
2	.08	.12	0	.06	.44	.88	12	2.9				
3	.05	.08	.34	.14	.42	1.0	11	2.8				
4	.16	.05	.21	.11	1.8	1.0	9.7	2.8				
5	.16	.03	0	.09	1.5	1.4	12	2.7				
6	.08	0	.09	.27	1.4	1.5	12	2.6				
7	.10	.04	.08	.42	1.3	6.9	12	2.5				
8	.11	.06	.10	.71	1.2	11	11	2.4				
9	.04	.02	.06	1.0	1.3	9.7	11	2.1				
10	.08	0	.04	.52	2.1	9.2	11	1.8				
11	0	0	.03	.30	2.1	9.2	11	1.3				
12	0	0	0	.15	1.4	8.8	10	.90				
13	0	0	.06	.09	3.4	9.5	9.2	.60				
14	0	0	.11	.05	2.8	13	8.6	.40				
15	0	0	.06	.10	2.2	11	7.3	0				
16	0	0	.03	.08	2.9	17	6.4	0				
17	0	0	0	.08	1.7	13	4.5	0				
18	0	0	.04	.03	1.6	12	4.4	0				
19	0	0	0	.04	.97	11	4.4	0				
20	0	0	0	.03	3.7	11	4.4	0				
21	0	0	0	.02	3.3	10	4.3	0				
22	0	0	.01	.03	2.8	37	4.1	0				
23	0	0	.05	.27	2.3	21	3.8	0				
24	0	0	.06	.21	2.1	17	3.8	0				
25	0	0	.02	.12	2.0	29	3.6	0				
26	0	0	.05	.10	1.6	20	3.7	0				
27	0	0	.04	.16	1.1	17	3.4	0				
28	.80	0	.16	.16	1.1	16	3.0	0				
29	.52	0	.04	.16	---	14	3.0	0				
30	.40	0	.03	.14	---	13	3.0	0				
31	.29	---	.02	.20	---	13	---	0	---			---
TOTAL	3.03	.60	1.73	5.87	51.01	366.08	219.6	28.80	0	0	0	0
MEAN	.098	.020	.056	.19	1.82	11.8	7.32	.93	0	0	0	0
MAX	.80	.20	.34	1.0	3.7	37	12	3.0	0	0	0	0
MIN	0	0	0	.02	.42	.88	3.0	0	0	0	0	0
AC-FT	6.0	1.2	3.4	12	101	726	436	57	0	0	0	0
CAL YR 1974 TOTAL	4215.70			MEAN 11.5	MAX 298	MIN 0	AC-FT 8360					
WTR YR 1975 TOTAL	676.72			MEAN 1.85	MAX 37	MIN 0	AC-FT 1340					

Peak discharge (base, 60 ft<sup>3</sup>/s).--Mar. 22 (0330) 81 ft<sup>3</sup>/s (7.27 ft).

## TEMBLADERO SLOUGH BASIN

11152650 RECLAMATION DITCH NEAR SALINAS, CALIF.

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

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

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

EXTREMES.--Period of record: Maximum daily discharge, 473 ft<sup>3</sup>/s (13.4 m<sup>3</sup>/s) Apr. 2, 1974; minimum daily, 0.34 ft<sup>3</sup>/s (0.010 m<sup>3</sup>/s) Jan. 2, 1972.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	7.6	4.9	1.5	28	2.7	5.8	14	11	19	26	4.5
2	33	7.6	9.0	1.4	51	2.6	7.3	17	9.6	23	20	2.0
3	11	3.1	42	3.9	15	2.1	8.6	17	8.8	20	19	9.9
4	9.6	3.7	27	3.9	22	2.4	10	19	8.0	17	8.2	12
5	11	6.9	9.6	2.1	9.3	8.1	19	17	8.6	4.2	16	12
6	10	7.6	7.8	23	5.6	9.1	15	13	10	10	12	9.4
7	16	11	6.6	17	24	50	9.3	12	11	10	12	6.0
8	21	11	4.0	20	9.4	52	12	19	10	15	13	.73
9	10	6.2	3.9	9.8	25	40	14	18	6.4	8.8	12	5.8
10	10	3.7	6.2	4.4	33	20	11	17	7.3	8.3	5.0	8.8
11	9.6	4.2	5.6	4.4	12	14	12	16	9.3	16	1.4	7.6
12	8.3	6.0	6.9	2.0	5.2	11	12	15	11	22	11	11
13	4.2	6.9	6.9	1.6	51	20	13	13	9.6	20	9.3	10
14	4.0	7.1	6.0	1.7	44	35	13	12	9.6	18	5.8	3.7
15	8.6	9.9	3.0	1.7	14	16	8.3	14	6.4	26	12	.73
16	10	9.6	2.9	1.8	5.6	41	9.1	18	3.6	21	15	6.6
17	12	7.8	5.0	3.0	3.3	28	7.8	17	4.0	17	4.5	10
18	9.9	6.5	4.2	3.0	2.5	16	8.6	18	5.2	18	13	14
19	7.3	11	4.9	1.4	5.2	13	10	16	6.4	16	22	8.7
20	4.2	11	4.7	1.2	9.4	10	13	14	8.8	7.8	9.3	12
21	6.2	14	4.7	1.4	3.0	9.3	19	12	14	6.0	12	4.9
22	9.3	8.5	2.5	1.4	2.0	38	16	13	14	19	10	1.0
23	10	7.1	2.2	1.7	1.3	34	13	14	8.9	26	7.3	6.6
24	8.6	3.7	3.7	1.7	1.2	22	15	13	14	30	3.3	6.0
25	8.3	4.5	1.7	1.8	1.2	30	21	13	12	28	2.3	11
26	7.6	7.6	1.4	.92	1.1	32	19	12	13	28	12	9.0
27	5.2	7.8	5.3	1.1	.98	24	17	10	14	17	8.8	9.9
28	31	5.6	4.5	1.9	1.4	19	13	10	16	2.6	12	3.6
29	16	2.2	3.3	2.8	---	14	12	10	8.6	10	14	2.2
30	8.6	4.9	2.3	1.4	---	9.1	13	10	11	20	11	4.6
31	11	---	1.9	1.9	---	4.9	---	12	---	23	6.9	---
TOTAL	347.5	214.3	204.6	126.82	386.68	629.3	376.8	445	290.1	526.7	346.1	214.26
MEAN	11.2	7.14	6.60	4.09	13.8	20.3	12.6	14.4	9.67	17.0	11.2	7.14
MAX	33	14	42	23	51	52	21	19	16	30	26	14
MIN	4.0	2.2	1.4	.92	.98	2.1	5.8	10	3.6	2.6	1.4	.73
AC-FT	689	425	406	252	767	1250	747	883	575	1040	686	425
CAL YR 1974	TOTAL	10414.10	MEAN	28.5	MAX	473	MIN	1.2	AC-FT	20660		
WTR YR 1975	TOTAL	4108.16	MEAN	11.3	MAX	52	MIN	.73	AC-FT	8150		

## PAJARO RIVER BASIN

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11152900 CEDAR CREEK NEAR BELL STATION, CALIF.

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

DRAINAGE AREA.--12.8 mi<sup>2</sup> (33.2 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--14 years, 4.45 ft<sup>3</sup>/s (0.126 m<sup>3</sup>/s), 3,220 acre-ft/yr (3.97 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 439 ft<sup>3</sup>/s (12.4 m<sup>3</sup>/s) Feb. 9 (gage height, 3.49 ft or 1.064 m); no flow many days.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.03	.12	.15	7.5	1.1	3.5	1.2	.25	.02	0	
2	0	.02	.19	.18	92	1.0	2.9	1.2	.25	.02	0	
3	.01	.02	5.6	.18	15	.96	2.7	1.1	.25	.02	0	
4	.01	.02	5.7	.18	13	.92	2.7	1.1	.21	.03	0	
5	.01	.02	.37	.18	7.1	1.8	12	1.1	.21	.02	0	
6	.01	.02	.24	.25	4.2	5.6	21	1.0	.19	.02	0	
7	.01	.02	.18	.18	3.7	75	15	1.0	.18	.02	0	
8	.02	.03	.15	.25	3.6	64	14	1.0	.18	.02	0	
9	.02	.02	.15	.34	54	31	11	1.0	.16	.03	0	
10	.02	.02	.15	.51	86	21	7.5	.92	.15	.03	0	
11	.02	.02	.15	.51	17	15	5.6	.83	.15	.03	0	
12	.02	.02	.15	.45	6.7	8.4	4.6	.83	.14	.04	0	
13	.01	.02	.15	.39	60	24	4.1	.83	.12	.04	0	
14	.01	.02	.15	.34	36	26	3.5	.83	.12	.05	0	
15	.01	.03	.15	.29	13	15	3.3	.83	.12	.05	0	
16	0	.03	.15	.29	6.7	53	2.9	.83	.11	.04	0	
17	0	.03	.15	.25	4.4	23	3.1	.83	.10	.03	0	
18	0	.04	.15	.25	3.2	13	2.7	.66	.10	.02	.02	
19	0	.04	.14	.25	2.7	8.9	2.3	.66	.08	.01	.01	
20	0	.04	.12	.21	3.4	5.9	2.1	.66	.07	.01	0	
21	.01	.10	.12	.21	2.4	40	1.9	.58	.06	.01	0	
22	0	.13	.12	.21	1.9	88	1.9	.58	.06	.01	0	
23	.01	.12	.08	.21	1.6	36	1.8	.58	.05	.01	0	
24	.01	.12	.08	.18	1.5	20	1.8	.58	.05	0	0	
25	.01	.12	.08	.18	1.4	39	1.9	.45	.05	0	0	
26	.01	.12	.08	.18	1.2	22	1.7	.45	.04	0	0	
27	.01	.12	.10	.18	1.2	14	1.6	.39	.04	0	0	
28	.10	.12	.18	.18	1.1	9.4	1.4	.39	.03	0	0	
29	.06	.12	.10	.18	---	6.7	1.4	.39	.03	0	0	
30	.02	.12	.10	.15	---	5.3	1.4	.34	.02	0	0	
31	.03	---	.15	.18	---	4.4	---	.34	---	0	0	---
TOTAL	.45	1.70	15.50	7.67	451.5	679.38	143.3	23.48	3.57	.58	.03	0
MEAN	.015	.057	.50	.25	16.1	21.9	4.78	.76	.12	.019	.001	0
MAX	.10	.13	5.7	.51	92	88	21	1.2	.25	.05	.02	0
MIN	0	.02	.08	.15	1.1	.92	1.4	.34	.02	0	0	0
AC-FT	.9	3.4	31	15	896	1350	284	47	7.1	1.2	.06	0
CAL YR 1974	TOTAL	1561.43	MEAN 4.28	MAX 215	MIN 0	AC-FT 3100						
WTR YR 1975	TOTAL	1327.16	MEAN 3.64	MAX 92	MIN 0	AC-FT 2630						

Peak discharge (base, 150 ft <sup>3</sup> /s)						
Date	Time	G.H.	Discharge	Date	Time	G.H.
2-2	0230	2.90	227	3-7	1415	2.95
2-9	2300	3.49	439	3-21	2200	3.18
						Discharge
						242
						320

## PAJARO RIVER BASIN

11153000 PACHECO CREEK NEAR DUNNEVILLE, CALIF.

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

DRAINAGE AREA.--146 mi<sup>2</sup> (378 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--36 years, 34.1 ft<sup>3</sup>/s (0.966 m<sup>3</sup>/s), 24,700 acre-ft/yr (30.5 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,730 ft<sup>3</sup>/s (77.3 m<sup>3</sup>/s) Mar. 22 (gage height, 10.55 ft or 3.216 m); no flow for many days.

Period of record: Maximum discharge, 12,600 ft<sup>3</sup>/s (357 m<sup>3</sup>/s) Dec. 23, 1955 (gage height, 21.0 ft or 6.40 m, present site and datum, from floodmarks), from rating curve extended above 5,400 ft<sup>3</sup>/s (153 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times.

REMARKS.--Records good. Flow regulated by Pacheco Lake 9 mi (14 km) upstream, capacity, 6,150 acre-ft (7.58 hm<sup>3</sup>). Small diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	0			0	2.4	43	1.2	8.2	10	6.8	10
2	2.2	0			8.6	1.7	34	1.1	8.2	11	6.4	10
3	1.9	0			.02	1.4	30	.80	12	11	6.4	9.8
4	1.7	0			0	1.2	28	.69	13	12	10	10
5	1.7	0			0	1.7	56	.60	14	12	12	9.8
6	1.7	0			0	4.2	95	.60	14	11	12	10
7	1.7	0			0	187	99	.51	14	10	12	10
8	1.6	0			0	244	102	.43	14	10	12	11
9	1.2	0			57	196	81	.36	15	9.2	11	12
10	1.2	0			327	177	56	.26	14	8.7	10	11
11	1.2	0			76	164	41	.17	14	8.7	10	7.7
12	1.1	0			43	101	31	.17	19	9.8	10	6.4
13	.80	0			196	123	23	.17	20	9.2	10	5.6
14	.69	0			158	230	19	.17	20	7.7	9.8	5.2
15	.51	0			70	135	15	.17	19	7.3	10	4.8
16	.43	0			46	360	13	.21	20	7.7	10	4.5
17	.17	0			31	213	16	.26	18	6.8	10	4.5
18	0	0			23	130	11	.31	17	6.8	12	4.5
19	0	0			17	93	8.2	2.2	17	6.8	12	4.2
20	0	0			31	71	6.8	6.8	16	7.7	11	4.2
21	0	0			23	69	6.0	9.2	18	8.2	10	4.2
22	0	0			16	1310	4.8	12	13	8.2	9.8	3.8
23	0	0			13	369	3.8	14	12	7.3	9.8	4.2
24	0	0			11	198	3.2	17	11	7.7	9.8	3.8
25	0	0			8.2	317	3.5	18	11	6.8	9.8	3.5
26	0	0			6.0	204	3.5	9.8	12	6.4	9.8	3.5
27	0	0			4.5	130	2.6	9.2	12	6.8	10	3.5
28	.69	1.0			3.5	93	2.2	8.7	12	7.3	10	3.8
29	.05	.14			---	71	1.7	8.7	9.2	7.3	9.8	3.8
30	0	0			---	59	1.6	8.7	9.2	6.8	9.8	3.8
31	0	---			---	51	---	7.7	---	7.3	10	---
TOTAL	22.74	1.14	0	0	1168.82	5307.6	840.9	140.18	425.8	263.5	312.0	193.1
MEAN	.73	.038	0	0	41.7	171	28.0	4.52	14.2	8.50	10.1	6.44
MAX	2.2	1.0	0	0	327	1310	102	18	20	12	12	12
MIN	0	0	0	0	0	1.2	1.6	.17	8.2	6.4	6.4	3.5
AC-FT	45	2.3	0	0	2320	10530	1670	278	845	523	619	383
CAL YR 1974 TOTAL	12451.91		MEAN 34.1	MAX 1770	MIN 0	AC-FT 24700						
WTR YR 1975 TOTAL	8675.78		MEAN 23.8	MAX 1310	MIN 0	AC-FT 17210						



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

DRAINAGE AREA.--9.61 mi<sup>2</sup> (24.89 km<sup>2</sup>).

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

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

EXTREMES.--Current year: Maximum discharge, 432 ft<sup>3</sup>/s (12.2 m<sup>3</sup>/s) Mar. 21 (gage height, 4.73 ft or 1.442 m), from rating curve extended as explained below; no flow many days.  
 Period of record: Maximum discharge, 795 ft<sup>3</sup>/s (22.5 m<sup>3</sup>/s) Jan. 16, 1973 (gage height, 6.18 ft or 1.884 m), from rating curve extended above 180 ft<sup>3</sup>/s (5.10 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 5.56 ft (1.695 m); no flow many days in each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.34	.56	2.2	123	8.1	25	7.3	2.7	1.1	.28	.08
2	0	.34	.64	1.9	129	8.1	22	7.0	2.8	1.1	.21	.06
3	.05	.32	12	1.7	50	7.4	21	7.0	2.7	1.1	.13	.01
4	.05	.33	6.4	1.6	98	7.0	21	6.8	2.5	1.1	.12	0
5	.05	.35	2.1	1.5	43	7.3	31	6.5	2.4	1.0	.22	0
6	.02	.35	1.5	1.5	25	7.6	24	6.3	2.4	.93	.22	0
7	.01	.41	1.3	1.3	18	105	21	6.3	2.3	.91	.14	0
8	.11	.39	1.1	1.5	31	108	20	6.0	2.2	.86	.05	.03
9	.11	.41	1.0	1.4	160	63	18	5.9	2.0	.81	.01	.19
10	.07	.43	.97	1.3	121	50	18	5.8	1.9	.75	.03	.08
11	.03	.46	.93	1.1	68	40	17	5.5	1.9	.72	.04	.08
12	0	.46	.89	1.3	47	33	15	5.4	1.8	.72	.07	.17
13	0	.40	.85	1.1	90	46	14	5.1	1.8	.73	.14	.12
14	0	.39	.86	1.1	62	41	14	5.0	1.7	.70	.18	.11
15	0	.41	.86	1.1	47	42	13	5.0	1.7	.88	.17	.12
16	0	.47	.84	.98	38	69	13	5.0	1.6	1.1	.14	.08
17	0	.44	.81	.98	30	46	13	4.6	1.7	.88	.13	.04
18	0	.36	.85	.98	25	39	12	4.4	1.6	.74	.46	.01
19	0	.41	.85	.98	21	35	11	4.3	1.7	.68	.53	.03
20	0	.46	.90	.98	18	31	10	4.2	1.7	.64	.39	.09
21	0	1.5	.90	.98	16	101	10	4.0	1.6	.59	.29	.03
22	0	.98	.89	.98	14	114	9.7	3.9	1.5	.40	.22	.03
23	0	.55	.85	.98	13	69	9.3	3.8	1.5	.37	.15	0
24	.04	.44	.85	.85	12	67	11	3.6	1.5	.32	.10	0
25	.07	.44	.85	.85	11	59	11	3.4	1.4	.32	.10	0
26	.07	.52	.85	.85	10	48	9.0	3.2	1.3	.34	.11	0
27	.08	.54	8.2	.85	9.2	41	8.7	3.1	1.2	.25	.16	0
28	.53	.54	17	.85	8.5	35	8.4	2.9	1.2	.30	.16	0
29	.23	.54	5.0	.85	---	35	7.9	2.7	1.1	.35	.10	0
30	.22	.54	3.2	.85	---	32	7.8	2.7	1.1	.41	.07	0
31	.37	---	2.5	7.5	---	28	---	2.7	---	.38	.08	---
TOTAL	2.11	14.52	77.30	42.89	1337.7	1422.5	445.8	149.4	54.5	21.48	5.20	1.36
MEAN	.068	.48	2.49	1.38	47.8	45.9	14.9	4.82	1.82	.69	.17	.045
MAX	.53	1.5	17	7.5	160	114	31	7.3	2.8	1.1	.53	.19
MIN	0	.32	.56	.85	8.5	7.0	7.8	2.7	1.1	.25	.01	0
AC-FT	4.2	29	153	85	2650	2820	884	296	108	43	10	2.7
CAL YR 1974 TOTAL	3922.67			MEAN 10.7	MAX 465	MIN 0	AC-FT 7780					
WTR YR 1975 TOTAL	3574.76			MEAN 9.79	MAX 160	MIN 0	AC-FT 7090					

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-2	0200	4.31	326	3-7	0800	4.18	293
2-9	2130	4.20	298	3-21	2030	4.73	432

## PAJARO RIVER BASIN

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

PERIOD OF RECORD.--Water temperatures: October 1971 to current year.  
Sediment records: October 1971 to current year.

## EXTREMES.--Current year:

Sediment concentrations: Maximum daily, 484 mg/l Mar. 7; minimum daily, no flow for many days.  
Sediment discharge: Maximum daily, 236 tons (214 tonnes) Mar. 7; minimum daily, 0 tons (0 tonnes) on many days.

## Period of record:

Water temperatures: Minimum (1972 to current year), 2.0°C Dec. 11, 14, 1972, Jan. 7, 1973.  
Sediment concentrations: Maximum daily, 1,400 mg/l Mar. 1, 1974; minimum daily, no flow for many days each year.  
Sediment discharge: Maximum daily, 1,860 tons (1,690 tonnes) Mar. 1, 1974; minimum daily, 0 tons (0 tonnes) on many days each year.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		12.5	---	6.0	7.0	10.0	10.0	9.0	---	---	---	---
2		---	10.0	6.0	7.0	10.0	10.0	---	---	---	---	17.5
3		---	11.0	6.0	8.5	9.0	10.0	---	18.5	---	---	---
4		---	11.0	---	8.0	10.0	10.0	---	---	---	---	---
5		---	11.0	6.0	8.0	10.0	11.0	8.0	---	---	---	---
6		---	11.0	7.0	8.0	10.0	11.0	---	---	---	---	---
7		---	11.0	7.0	8.0	10.0	10.0	---	---	---	---	---
8		---	9.0	---	8.0	10.0	10.0	---	---	---	---	---
9		---	8.0	6.0	9.0	11.0	10.0	11.0	15.0	15.0	---	---
10		---	7.0	---	8.0	11.0	10.0	---	---	---	---	---
11		---	8.0	7.0	8.0	11.0	10.0	---	---	---	---	---
12		---	---	---	9.0	10.0	11.0	11.0	---	---	---	---
13		---	8.0	---	10.0	10.0	11.0	---	15.0	---	---	---
14		---	---	7.0	10.0	10.0	11.0	---	---	15.0	19.0	---
15		---	8.0	---	10.0	11.0	11.0	---	---	---	---	---
16		---	---	---	8.0	10.0	10.0	10.0	15.0	---	---	---
17		---	7.0	6.0	8.0	10.0	10.0	---	---	---	---	---
18		---	---	---	8.0	10.0	10.0	---	---	---	---	---
19		---	7.0	---	9.0	10.0	11.0	13.0	---	---	---	---
20		---	---	6.0	8.0	10.0	---	---	13.0	---	---	---
21		---	7.0	---	8.0	10.0	11.0	---	---	15.0	---	---
22		10.0	---	---	9.0	11.0	---	---	---	---	---	---
23		10.0	7.0	7.0	9.0	10.0	11.0	12.0	14.0	---	---	---
24		10.0	---	---	8.0	10.0	---	---	---	---	---	---
25		---	7.0	---	8.0	10.0	10.0	---	---	---	---	---
26		---	---	7.0	9.0	10.0	---	13.0	12.0	17.0	---	---
27		---	8.0	---	9.0	11.0	8.0	---	---	---	---	---
28		---	8.0	---	10.0	10.0	---	---	---	---	---	---
29		---	8.0	6.0	---	10.0	9.0	13.0	---	---	---	---
30		---	7.0	---	---	10.0	---	---	16.5	---	---	---
31		---	7.0	---	---	10.0	---	---	---	---	---	---
MONTH		---	---	---	8.5	10.0	10.5	---	---	---	---	---
YEAR	MAX	19.0	MIN	6.0	MEAN	10.0						

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

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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	.34	1	0	.56	1	0	
2	0	0	0	.34	1	0	.64	1	0	
3	.05	1	0	.32	1	0	12	55	2.8	
4	.05	1	0	.33	1	0	6.4	16	.38	
5	.05	1	0	.35	1	0	2.1	6	.03	
6	.02	1	0	.35	1	0	1.5	11	.04	
7	.01	1	0	.41	1	0	1.3	6	.02	
8	.11	1	0	.39	1	0	1.1	4	.01	
9	.11	1	0	.41	1	0	1.0	4	.01	
10	.07	1	0	.43	1	0	.97	3	.01	
11	.03	1	0	.46	1	0	.93	3	.01	
12	0	0	0	.46	1	0	.89	3	.01	
13	0	0	0	.40	1	0	.85	3	.01	
14	0	0	0	.39	1	0	.86	3	.01	
15	0	0	0	.41	1	0	.86	2	0	
16	0	0	0	.47	1	0	.84	2	0	
17	0	0	0	.44	1	0	.81	2	0	
18	0	0	0	.36	1	0	.85	1	0	
19	0	0	0	.41	1	0	.85	1	0	
20	0	0	0	.46	1	0	.90	2	0	
21	0	0	0	1.5	3	.01	.90	4	.01	
22	0	0	0	.98	2	.01	.89	2	0	
23	0	0	0	.55	2	0	.85	1	0	
24	.04	1	0	.44	2	0	.85	3	.01	
25	.07	1	0	.44	2	0	.85	6	.01	
26	.07	1	0	.52	2	0	.85	5	.01	
27	.08	1	0	.54	2	0	8.2	18	1.4	
28	.53	2	0	.54	2	0	17	19	1.4	
29	.23	2	0	.54	1	0	5.0	3	.04	
30	.22	1	0	.54	1	0	3.2	2	.02	
31	.37	1	0	---	---	---	2.5	3	.02	
MONTH	2.11	---	0	14.52	---	.02	77.30	---	6.26	

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	2.2	3	.02	123	375	175	8.1	3	.07	
2	1.9	7	.04	129	265	152	8.1	5	.11	
3	1.7	4	.02	50	23	3.1	7.4	4	.08	
4	1.6	3	.01	98	109	35	7.0	5	.09	
5	1.5	3	.01	43	11	1.3	7.3	4	.08	
6	1.5	2	.01	25	6	.41	7.6	4	.08	
7	1.3	5	.02	18	4	.19	105	484	236	
8	1.5	8	.03	31	34	11	108	166	72	
9	1.4	13	.05	160	314	148	63	20	3.4	
10	1.3	10	.04	121	166	62	50	13	1.8	
11	1.1	6	.02	68	32	6.0	40	4	.43	
12	1.3	5	.02	47	8	1.0	33	7	.62	
13	1.1	4	.01	90	107	28	46	10	1.5	
14	1.1	4	.01	62	17	2.8	41	8	.89	
15	1.1	4	.01	47	9	1.1	42	10	2.1	
16	.98	5	.01	38	9	.92	69	27	6.0	
17	.98	6	.02	30	7	.57	46	6	.75	
18	.98	4	.01	25	9	.61	39	8	.84	
19	.98	4	.01	21	6	.34	35	8	.76	
20	.98	3	.01	18	5	.24	31	6	.50	
21	.98	3	.01	16	4	.17	101	210	175	
22	.98	3	.01	14	11	.42	114	146	52	
23	.98	3	.01	13	13	.46	69	17	3.2	
24	.85	4	.01	12	12	.39	67	12	2.3	
25	.85	4	.01	11	6	.18	59	9	1.4	
26	.85	4	.01	10	4	.11	48	7	.91	
27	.85	3	.01	9.2	8	.20	41	7	.77	
28	.85	2	0	8.5	4	.09	35	7	.66	
29	.85	2	0	---	---	---	35	5	.47	
30	.85	2	0	---	---	---	32	5	.43	
31	7.5	26	2.7	---	---	---	28	8	.60	
MONTH	42.89	---	3.15	1337.7	---	631.60	1422.5	---	565.84	

## PAJARO RIVER BASIN

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

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL				MAY				JUNE			
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)			
1	25	8	.54	7.3	9	.18	2.7	6	.04			
2	22	10	.59	7.0	9	.17	2.8	4	.03			
3	21	12	.68	7.0	9	.17	2.7	2	.01			
4	21	14	.79	6.8	9	.17	2.5	3	.02			
5	31	16	1.3	6.5	9	.16	2.4	5	.03			
6	24	14	.91	6.3	10	.17	2.4	7	.05			
7	21	8	.45	6.3	10	.17	2.3	8	.05			
8	20	9	.49	6.0	10	.16	2.2	8	.05			
9	18	10	.49	5.9	10	.16	2.0	9	.05			
10	18	6	.29	5.8	8	.13	1.9	9	.05			
11	17	6	.28	5.5	6	.09	1.9	9	.05			
12	15	10	.41	5.4	5	.07	1.8	10	.05			
13	14	8	.30	5.1	5	.07	1.8	10	.05			
14	14	7	.26	5.0	5	.07	1.7	10	.05			
15	13	9	.32	5.0	5	.07	1.7	9	.04			
16	13	8	.28	5.0	6	.08	1.6	8	.03			
17	13	8	.28	4.6	6	.07	1.7	6	.03			
18	12	7	.23	4.4	6	.07	1.6	4	.02			
19	11	5	.15	4.3	7	.08	1.7	3	.01			
20	10	6	.16	4.2	7	.08	1.7	3	.01			
21	10	8	.22	4.0	8	.09	1.6	3	.01			
22	9.7	10	.26	3.9	8	.08	1.5	3	.01			
23	9.3	12	.30	3.8	8	.08	1.5	3	.01			
24	11	8	.24	3.6	9	.09	1.5	3	.01			
25	11	6	.18	3.4	9	.08	1.4	2	.01			
26	9.0	6	.15	3.2	10	.09	1.3	2	.01			
27	8.7	5	.12	3.1	10	.08	1.2	2	.01			
28	8.4	5	.11	2.9	11	.09	1.2	3	.01			
29	7.9	5	.11	2.7	12	.09	1.1	3	.01			
30	7.8	9	.19	2.7	10	.07	1.1	4	.01			
31	---	---	---	2.7	8	.06	---	---	---			
MONTH	445.8	---	11.08	149.4	---	3.29	54.5	---	.82			

DAY	JULY				AUGUST				SEPTEMBER			
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)			
1	1.1	4	.01	.28	12	.01	.08	2	0			
2	1.1	4	.01	.21	12	.01	.06	15	0			
3	1.1	4	.01	.13	12	0	.01	7	0			
4	1.1	4	.01	.12	11	0	0	0	0			
5	1.0	4	.01	.22	11	.01	0	0	0			
6	.93	4	.01	.22	10	.01	0	0	0			
7	.91	5	.01	.14	10	0	0	0	0			
8	.86	9	.02	.05	9	0	.03	1	0			
9	.81	14	.03	.01	8	0	.19	1	0			
10	.75	19	.04	.03	8	0	.08	1	0			
11	.72	25	.05	.04	7	0	.08	1	0			
12	.72	32	.06	.07	7	0	.17	1	0			
13	.73	36	.07	.14	6	0	.12	1	0			
14	.70	37	.07	.18	5	0	.11	1	0			
15	.88	38	.09	.17	5	0	.12	1	0			
16	1.1	38	.11	.14	4	0	.08	1	0			
17	.88	38	.09	.13	4	0	.04	1	0			
18	.74	38	.08	.46	4	.01	.01	1	0			
19	.68	39	.07	.53	4	.01	.03	1	0			
20	.64	39	.07	.39	3	0	.09	1	0			
21	.59	39	.06	.29	3	0	.03	1	0			
22	.40	38	.04	.22	3	0	.03	1	0			
23	.37	35	.04	.15	3	0	0	0	0			
24	.32	31	.03	.10	3	0	0	0	0			
25	.32	27	.02	.10	3	0	0	0	0			
26	.34	23	.02	.11	3	0	0	0	0			
27	.25	18	.01	.16	2	0	0	0	0			
28	.30	14	.01	.16	2	0	0	0	0			
29	.35	14	.01	.10	2	0	0	0	0			
30	.41	13	.01	.07	2	0	0	0	0			
31	.38	13	.01	.08	2	0	---	---	---			
MONTH	21.48	---	1.18	5.20	---	.06	1.36	---	0			

YEAR	3574.76		1223.30						
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11153470 LLAGAS CREEK ABOVE CHESBRO RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT 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
FEB.											
04...	0815	8.0	138	171	64	--	--	--	--	--	--
09...	0750	9.0	171	260	120	--	--	--	--	--	--
10...	0825	8.0	123	63	21	--	--	--	--	--	--
MAR.											
07...	0745	10.0	269	1890	1370	24	31	37	46	54	61
07...	1150	10.0	257	470	326	--	--	--	--	--	--
08...	0825	10.0	171	114	53	--	--	--	--	--	--

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
FEB.										
04...	80	--	87	--	92	--	96	--	100	--
09...	63	--	73	--	85	--	96	--	100	--
10...	88	--	95	--	99	--	100	--	--	--
MAR.										
07...	--	69	--	77	--	86	--	100	--	--
07...	72	--	79	--	87	--	95	--	98	100
08...	78	--	83	--	89	--	94	--	100	--

## PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDIM- ENT DIS- CHARGE (MG/L)	TOTAL SEDIM- ENT 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
FEB.									
01...	0840	7.0	66	148	26	96	97	98	100
03...	1245	8.5	47	12	1.5	100	--	--	--

## PAJARO RIVER BASIN

## RESERVOIRS IN PAJARO RIVER BASIN, CALIF.

11153480 CHESBRO RESERVOIR.--Lat 37°07'00", long 121°41'34", near southwest boundary of Ojo de Agua de la Coche Grant, Santa Clara County, at left end of dam on Llagas Creek, and 2.5 mi (4.0 km) west of Morgan Hill. Drainage area, 19.3 mi<sup>2</sup> (50.0 km<sup>2</sup>). Period of record, December 1955 to current year. Monthly contents prior to October 1959 published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by South Santa Clara Valley Water Conservation District). Extremes for current year: Maximum contents observed, 8,180 acre-ft (10.1 hm<sup>3</sup>) Mar. 25 (elevation, 525.33 ft or 160.121 m); minimum observed, 2,430 acre-ft (3.00 hm<sup>3</sup>) Jan. 31 (elevation, 496.58 ft or 151.358 m). Extremes for period of record: Maximum contents observed, 8,220 acre-ft (10.1 hm<sup>3</sup>) Feb. 10, 1973 (elevation, 525.5 ft or 160.17 m); maximum elevation, 527.4 ft (160.75 m) Feb. 24, 1969; no contents at times in 1957, 1960-62, 1973.

Reservoir is formed by earth- and rockfill dam completed in 1955. Capacity, 8,090 acre-ft (9.97 hm<sup>3</sup>) between elevations 465 ft (141.7 m), elevation of outlet gates, and 525 ft (160.0 m), crest of spillway. Reservoir is used for flood control and water released down Llagas Creek for irrigation. Record of contents furnished by Santa Clara Valley Water District.

11154020 UVAS RESERVOIR.--Lat 37°04'02", long 121°41'25", in Las Uvas Grant, Santa Clara County, at center of dam on Uvas Creek, and 4.8 mi (7.7 km) southwest of Morgan Hill. Drainage area, 30.4 mi<sup>2</sup> (78.7 km<sup>2</sup>). Period of record, December 1957 to current year. Monthly contents prior to October 1959 published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by South Santa Clara Valley Water Conservation District). Extremes for current year: Maximum contents observed, 10,180 acre-ft (12.6 hm<sup>3</sup>) Mar. 25 (elevation, 488.01 ft or 148.745 m); minimum observed, 1,350 acre-ft (1.66 hm<sup>3</sup>) Jan. 31 (elevation, 438.15 ft or 133.548 m). Extremes for period of record: Maximum contents observed, 11,030 acre-ft (13.6 hm<sup>3</sup>) Mar. 16, 1967 (elevation, 490.5 ft or 149.50 m); no contents May 18 to Nov. 30, 1961.

Reservoir is formed by earth- and rockfill dam completed in 1957. Capacity, 10,000 acre-ft (12.3 hm<sup>3</sup>) between elevations 410 ft (125.0 m), hydraulic gate valves, and 487.5 ft (148.59 m), crest of spillway. Water released down Uvas Creek for irrigation; at times diverted into Llagas Creek 3.6 mi (5.8 km) below Chesbro Reservoir for ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

MONTHEND CONTENTS, IN ACRE-FeET (INCLUDING MOMENTARY  
STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Chesbro Reservoir	Uvas Reservoir
Sept. 30, 1974..	3,860	4,150
Oct. 31.....	3,120	2,900
Nov. 30.....	2,830	1,940
Dec. 31.....	2,670	1,600
Jan. 31, 1975..	2,700	1,750
Feb. 28.....	5,940	7,500
Mar. 31.....	8,120	10,090
Apr. 30.....	8,110	9,830
May 31.....	7,970	9,010
June 30.....	7,100	8,020
July 31.....	6,220	6,550
Aug. 31.....	5,390	5,320
Sept. 30.....	4,660	4,250

NOTE.--Contents at 0800 on first day of following month.

## 11153700 PAJARO RIVER NEAR GILROY, CALIF.

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

DRAINAGE AREA.--399 mi<sup>2</sup> (1,033 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 123.88 ft (37.759 m) above mean sea level (levels by Corps of Engineers). Prior to Nov. 17, 1971, at site 45 ft (14 m) downstream at same datum.

AVERAGE DISCHARGE.--16 years, 56.9 ft<sup>3</sup>/s (1.611 m<sup>3</sup>/s), 41,220 acre-ft/yr (50.8 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 1,450 ft<sup>3</sup>/s (41.1 m<sup>3</sup>/s) Mar. 22 (gage height, 8.01 ft or 2.441 m); minimum daily, 2.1 ft<sup>3</sup>/s (0.059 m<sup>3</sup>/s) Oct. 2.

Period of record: Maximum discharge, 12,900 ft<sup>3</sup>/s (365 m<sup>3</sup>/s) Jan. 25, 1969 (gage height, 14.63 ft or 4.459 m), from rating curve extended above 4,800 ft<sup>3</sup>/s (136 m<sup>3</sup>/s); no flow many days in 1961-62, 1971.

REMARKS.--Records good. Flow regulated by Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm<sup>3</sup>), Chesbro Reservoir 21 mi (34 km) upstream (see sta 11153480) and San Felipe Lake. Many diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.3	4.5	6.2	7.2	15	19	123	55	15	5.3	5.8	4.9
2	2.1	4.5	6.0	7.2	37	18	105	50	14	5.8	4.3	4.5
3	2.2	4.5	6.0	7.2	20	18	93	50	14	5.5	4.8	4.5
4	2.3	4.5	5.9	7.2	18	19	89	49	14	5.8	5.0	4.5
5	2.2	4.4	5.9	7.2	17	19	110	43	15	5.5	4.8	5.2
6	2.2	4.7	5.9	7.5	13	21	141	41	15	6.2	4.5	5.2
7	2.2	4.9	5.8	7.8	12	38	148	41	15	6.5	4.3	3.8
8	2.5	5.4	5.8	8.2	12	219	160	40	14	7.8	6.5	4.1
9	3.0	6.3	5.8	8.5	24	281	158	33	13	7.5	9.5	6.4
10	3.0	6.2	6.5	8.5	119	223	143	28	11	7.2	9.2	5.9
11	3.0	6.5	7.5	8.5	126	217	123	25	10	7.8	9.2	5.9
12	3.0	7.2	7.5	8.5	95	197	108	21	9.5	6.8	10	5.6
13	3.2	7.0	6.8	8.2	113	176	97	20	10	7.8	9.2	4.4
14	3.4	6.7	6.8	8.2	194	231	87	18	9.6	8.2	8.5	3.6
15	3.4	6.6	6.8	8.2	154	215	89	17	9.0	5.8	8.8	4.9
16	3.4	6.6	6.8	8.3	114	294	87	17	9.2	5.5	8.5	2.9
17	3.5	6.7	6.8	8.5	80	297	86	17	8.5	5.0	8.8	2.9
18	3.2	6.4	6.8	8.6	58	255	86	16	7.8	6.2	8.8	3.8
19	3.2	6.3	6.8	8.8	45	210	82	16	7.8	5.8	8.5	4.4
20	3.8	6.8	7.5	8.5	37	170	81	16	7.8	4.3	6.5	4.9
21	4.5	6.6	7.2	8.6	38	143	79	16	7.2	3.4	5.8	5.1
22	4.9	6.6	7.2	8.8	37	1030	75	16	6.5	4.8	4.3	5.1
23	4.6	6.2	6.8	8.8	32	682	73	16	6.5	6.5	2.8	5.4
24	4.3	7.3	6.8	8.8	28	476	72	16	6.2	7.2	3.2	6.1
25	4.4	6.7	6.8	8.8	25	430	72	16	5.8	5.3	3.2	6.3
26	5.4	6.2	6.8	9.1	23	398	72	16	5.3	5.0	4.3	5.2
27	5.0	6.2	7.2	9.2	22	333	67	16	7.2	4.1	5.5	4.7
28	5.3	6.3	8.8	8.8	20	271	58	16	7.8	5.8	4.8	4.5
29	5.2	6.5	7.5	8.8	---	219	59	16	6.8	6.5	5.3	4.8
30	4.6	6.5	7.2	9.0	---	176	56	16	5.0	5.8	5.5	4.5
31	4.5	---	7.2	9.6	---	146	---	16	---	5.8	5.2	---
TOTAL	109.8	181.8	209.4	259.1	1528	7441	2879	789	293.5	186.5	195.4	144.0
MEAN	3.54	6.06	6.75	8.36	54.6	240	96.0	25.5	9.78	6.02	6.30	4.80
MAX	5.4	7.3	8.8	9.6	194	1030	160	55	15	8.2	10	6.4
MIN	2.1	4.4	5.8	7.2	12	18	56	16	5.0	3.4	2.8	2.9
AC-FT	218	361	415	514	3030	14760	5710	1560	582	370	388	286

CAL YR 1974 TOTAL 22679.1 MEAN 62.1 MAX 2330 MIN 2.1 AC-FT 44980  
WTR YR 1975 TOTAL 14216.5 MEAN 38.9 MAX 1030 MIN 2.1 AC-FT 28200

## 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, on left bank 0.6 mi (1.0 km) downstream from Little Uvas Creek, 0.9 mi (1.4 km) upstream from Hay Canyon, and 4.4 mi (7.1 km) southwest of Morgan Hill.

DRAINAGE AREA.--21.0 mi<sup>2</sup> (54.4 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--14 years, 28.2 ft<sup>3</sup>/s (0.799 m<sup>3</sup>/s), 20,430 acre-ft/yr (25.2 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,910 ft<sup>3</sup>/s (82.4 m<sup>3</sup>/s) Mar. 21 (gage height, 9.40 ft or 2.865 m); minimum daily, 0.18 ft<sup>3</sup>/s (0.005 m<sup>3</sup>/s) Oct. 15.

Period of record: Maximum discharge, 6,580 ft<sup>3</sup>/s (186 m<sup>3</sup>/s) Oct. 13, 1962 (gage height, 13.18 ft or 4.017 m); no flow July 12 to Oct. 22, 1961, Oct. 1, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.38	2.0	2.0	4.8	222	17	48	19	7.6	2.8	1.3	1.4
2	.72	1.8	2.4	4.3	308	17	43	19	7.3	2.9	1.4	.23
3	.79	1.6	38	3.9	162	16	41	18	7.9	3.1	1.5	1.1
4	1.2	1.6	21	3.7	264	15	41	18	6.8	3.4	1.1	.82
5	1.4	1.6	6.4	3.6	75	16	59	17	5.9	3.3	.79	1.0
6	1.2	1.6	4.3	3.3	43	17	50	17	6.8	3.0	1.3	1.0
7	1.1	1.6	3.4	3.9	33	193	45	17	6.6	3.1	1.2	1.2
8	.86	2.0	3.1	5.0	85	287	53	16	6.6	2.9	1.4	1.1
9	1.1	1.8	2.8	4.8	504	129	45	15	6.1	3.1	1.2	.95
10	.54	1.8	2.7	4.3	243	93	40	16	5.5	2.8	1.3	.61
11	1.0	1.8	2.6	3.9	107	70	38	15	4.8	2.7	.74	.43
12	.66	1.6	2.6	3.7	75	56	35	15	4.8	2.6	.65	.54
13	.66	1.6	2.4	3.6	312	121	33	14	4.5	2.5	1.6	.93
14	.86	1.6	2.4	3.4	146	85	32	13	5.2	2.8	1.2	1.1
15	.18	1.6	2.4	3.3	93	100	31	14	5.0	2.7	1.6	1.0
16	.86	1.6	2.4	3.1	68	195	31	14	5.2	3.3	1.2	.74
17	.60	1.6	2.3	3.1	53	97	29	12	5.0	2.8	1.4	.99
18	.86	1.6	2.3	3.0	42	78	27	13	5.0	2.8	1.6	.79
19	.43	1.6	2.2	3.0	37	67	26	12	5.0	2.5	2.4	.85
20	.94	1.6	2.2	3.0	34	57	25	12	5.0	2.7	2.2	.78
21	.94	7.3	2.3	2.8	29	537	24	11	4.6	2.7	1.4	.89
22	.54	4.5	2.2	2.7	27	379	23	11	5.0	2.3	1.1	1.1
23	.66	2.6	2.2	2.7	24	168	22	9.9	4.3	2.6	1.2	.79
24	.66	2.2	2.1	2.7	23	124	27	9.9	4.1	2.1	1.4	.92
25	.86	2.1	2.1	2.7	21	156	28	9.6	3.9	1.9	1.3	.77
26	.94	2.1	2.2	2.7	20	104	24	9.3	3.6	1.5	1.1	.61
27	.79	2.0	21	2.7	19	89	22	8.7	3.3	1.5	1.1	.48
28	3.9	2.0	55	2.6	18	77	21	7.9	3.6	1.4	.70	.53
29	2.1	1.9	13	2.7	---	67	20	7.3	3.4	.79	1.4	.90
30	1.6	1.9	7.6	2.7	---	60	20	7.9	2.8	1.0	1.2	.63
31	2.0	---	5.7	16	---	54	---	7.9	---	.87	1.5	---
TOTAL	31.33	62.2	225.3	117.7	3087	3541	1003	406.4	155.2	76.46	40.48	25.18
MEAN	1.01	2.07	7.27	3.80	110	114	33.4	13.1	5.17	2.47	1.31	.84
MAX	3.9	7.3	55	16	504	537	59	19	7.9	3.4	2.4	1.4
MIN	.18	1.6	2.0	2.6	18	15	20	7.3	2.8	.79	.65	.23
AC-FT	62	123	447	233	6120	7020	1990	806	308	152	80	50
CAL YR 1974 TOTAL	11116.88			MEAN 30.5	MAX 1630	MIN .05	AC-FT 22050					
WTR YR 1975 TOTAL	8771.25			MEAN 24.0	MAX 537	MIN .18	AC-FT 17400					

Peak discharge (base, 800 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-2	0045	7.08	1,020	3-21	2100	9.40	2,910
2-9	2115	7.18	1,080				



11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

PERIOD OF RECORD.--Water temperatures: October 1965 to current year.

Sediment records: Water year 1965 (partial-record station), October 1965 to current year.

EXTREMES.--Current year:

Sediment concentrations: Maximum daily, 320 mg/l Mar. 21; minimum daily, 1 mg/l on many days.

Sediment discharge: Maximum daily, 1,780 tons (1,610 tonnes) Mar. 21; minimum daily, 0 tons (0 tonnes) Oct. 15, Nov. 2-4.

Period of record:

Sediment concentrations: Maximum daily, 2,400 mg/l Jan. 21, 1967; minimum daily, 0 mg/l on several days in 1970 and 1971.

Sediment discharge: Maximum daily, 22,200 tons (20,100 tonnes) Jan. 21, 1967; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--Zero bedload discharge observed at flows less than 67 ft<sup>3</sup>/s (1.90 m<sup>3</sup>/s).TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	12.0	---	---	8.0	11.0	10.0	---	---	---	---	---
2	17.0	13.0	8.0	5.0	9.0	---	---	11.0	---	19.0	---	24.0
3	---	---	10.0	---	10.0	10.0	10.0	---	19.0	---	19.0	---
4	---	---	---	---	9.0	14.0	---	---	21.0	---	---	---
5	---	---	---	---	---	---	---	---	---	22.0	---	---
6	16.0	13.0	10.0	8.0	10.0	---	---	10.0	---	---	---	---
7	---	---	---	10.0	---	12.0	11.0	---	22.0	---	---	---
8	---	---	---	---	---	10.0	---	---	---	18.0	17.0	---
9	---	---	9.0	---	11.0	---	---	---	---	---	---	---
10	16.0	14.0	---	---	10.0	10.0	---	12.0	24.0	---	---	---
11	---	---	---	11.0	10.0	10.0	10.0	---	---	---	---	---
12	---	---	---	---	10.0	---	---	---	---	19.0	---	---
13	---	---	10.0	---	10.0	---	---	---	23.0	---	---	---
14	---	---	---	---	---	8.0	---	15.0	---	---	18.5	---
15	14.0	12.0	---	6.0	9.0	11.0	11.0	---	---	---	---	---
16	---	---	---	---	---	---	---	---	19.0	18.0	---	---
17	---	---	---	---	---	---	---	16.0	---	---	---	---
18	---	---	---	---	---	10.0	11.0	---	---	---	---	---
19	---	12.0	9.0	6.0	9.5	---	---	---	20.0	---	---	---
20	---	---	---	---	---	---	---	---	---	18.0	---	---
21	---	---	---	---	---	---	---	18.0	---	---	---	---
22	---	11.0	---	---	10.0	10.0	11.0	---	19.0	---	---	---
23	---	---	---	10.0	---	---	---	---	---	---	---	---
24	14.0	---	---	---	---	---	---	---	---	20.0	---	---
25	---	---	---	---	---	11.0	---	19.0	13.0	---	---	---
26	---	11.0	---	---	11.0	---	10.0	---	---	---	---	---
27	---	---	---	6.0	---	---	---	---	---	---	---	---
28	---	---	8.0	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	16.0	---	---	---	---	---	---	17.0	18.0	---	---
31	---	---	4.0	7.0	---	10.0	---	23.0	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
YEAR	MAX	24.0	MIN	4.0	MEAN	13.0						

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER				NOVEMBER				DECEMBER			
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.38	6	.01	2.0	2	.01	2.0	1	.01			
2	.72	6	.01	1.8	1	0	2.4	1	.01			
3	.79	7	.02	1.6	1	0	38	140	25			
4	1.2	7	.02	1.6	1	0	21	52	4.8			
5	1.4	7	.03	1.6	2	.01	6.4	10	.17			
6	1.2	8	.03	1.6	2	.01	4.3	2	.02			
7	1.1	8	.02	1.6	2	.01	3.4	2	.02			
8	.86	8	.02	2.0	2	.01	3.1	2	.02			
9	1.1	8	.02	1.8	2	.01	2.8	1	.01			
10	.54	8	.01	1.8	2	.01	2.7	1	.01			
11	1.0	8	.02	1.8	2	.01	2.6	1	.01			
12	.66	8	.01	1.6	2	.01	2.6	2	.01			
13	.66	8	.01	1.6	2	.01	2.4	2	.01			
14	.86	8	.02	1.6	2	.01	2.4	2	.01			
15	.18	8	0	1.6	2	.01	2.4	2	.01			
16	.86	8	.02	1.6	2	.01	2.4	2	.01			
17	.60	7	.01	1.6	2	.01	2.3	3	.02			
18	.86	7	.02	1.6	2	.01	2.3	3	.02			
19	.43	6	.01	1.6	2	.01	2.2	3	.02			
20	.94	6	.02	1.6	2	.01	2.2	3	.02			
21	.94	5	.01	7.3	17	.57	2.3	3	.02			
22	.54	4	.01	4.5	6	.07	2.2	3	.02			
23	.66	4	.01	2.6	3	.02	2.2	3	.02			
24	.66	3	.01	2.2	2	.01	2.1	3	.02			
25	.86	3	.01	2.1	2	.01	2.1	3	.02			
26	.94	3	.01	2.1	1	.01	2.2	3	.02			
27	.79	3	.01	2.0	1	.01	21	120	27			
28	3.9	14	.19	2.0	1	.01	55	62	20			
29	2.1	3	.02	1.9	1	.01	13	5	.18			
30	1.6	2	.01	1.9	1	.01	7.6	3	.06			
31	2.0	2	.01	---	---	---	5.7	2	.03			
MONTH	31.33	---	.63	62.2	---	.90	225.3	---	77.60			

DAY	JANUARY				FEBRUARY				MARCH			
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.8	2	.03	222	259	302	17	3	.14			
2	4.3	2	.02	308	182	386	17	2	.09			
3	3.9	2	.02	162	42	19	16	2	.09			
4	3.7	2	.02	264	69	58	15	7	.28			
5	3.6	2	.02	75	23	4.7	16	9	.39			
6	3.3	2	.02	43	13	1.5	17	8	.37			
7	3.9	2	.02	33	11	.98	193	120	109			
8	5.0	2	.03	85	59	45	287	99	101			
9	4.8	2	.03	504	259	497	129	30	10			
10	4.3	2	.02	243	72	69	93	13	3.3			
11	3.9	1	.01	107	8	2.3	70	10	1.9			
12	3.7	1	.01	75	5	1.0	56	6	.91			
13	3.6	1	.01	312	57	60	121	29	17			
14	3.4	1	.01	146	22	8.7	85	14	3.2			
15	3.3	1	.01	93	11	2.8	100	15	13			
16	3.1	1	.01	68	5	.92	195	31	22			
17	3.1	1	.01	53	3	.43	97	11	2.9			
18	3.0	1	.01	42	2	.23	78	8	1.7			
19	3.0	1	.01	37	1	.10	67	7	1.3			
20	3.0	1	.01	34	2	.18	57	6	.92			
21	2.8	1	.01	29	3	.23	537	320	1780			
22	2.7	1	.01	27	4	.29	379	156	244			
23	2.7	1	.01	24	5	.32	168	50	23			
24	2.7	1	.01	23	7	.43	124	15	5.0			
25	2.7	1	.01	21	8	.45	156	31	15			
26	2.7	1	.01	20	9	.49	104	15	4.2			
27	2.7	1	.01	19	8	.41	89	13	3.1			
28	2.6	1	.01	18	6	.29	77	11	2.3			
29	2.7	1	.01	---	---	---	67	10	1.8			
30	2.7	1	.01	---	---	---	60	8	1.3			
31	16	27	7.3	---	---	---	54	7	1.0			
MONTH	117.7	---	7.73	3087	---	1462.75	3541	---	2370.19			

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY); WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	48	5	.65	19	8	.41	7.6	6	.12
2	43	4	.46	19	8	.41	7.3	6	.12
3	41	4	.44	18	8	.39	7.9	6	.13
4	41	3	.33	18	8	.39	6.8	3	.06
5	59	5	.80	17	8	.37	5.9	3	.05
6	50	4	.54	17	9	.41	6.8	3	.06
7	45	4	.49	17	9	.41	6.6	3	.05
8	53	5	.72	16	9	.39	6.6	4	.07
9	45	4	.49	15	9	.36	6.1	4	.07
10	40	4	.43	16	10	.43	5.5	5	.07
11	38	3	.31	15	8	.32	4.8	4	.05
12	35	3	.28	15	6	.24	4.8	3	.04
13	33	3	.27	14	4	.15	4.5	2	.02
14	32	2	.17	13	3	.11	5.2	2	.03
15	31	2	.17	14	3	.11	5.0	2	.03
16	31	2	.17	14	3	.11	5.2	2	.03
17	29	3	.23	12	3	.10	5.0	2	.03
18	27	4	.29	13	4	.14	5.0	2	.03
19	26	4	.28	12	5	.16	5.0	2	.03
20	25	4	.27	12	6	.19	5.0	2	.03
21	24	5	.32	11	7	.21	4.6	2	.02
22	23	5	.31	11	7	.21	5.0	2	.03
23	22	5	.30	9.9	7	.19	4.3	3	.03
24	27	6	.44	9.9	6	.16	4.1	3	.03
25	28	5	.38	9.6	6	.16	3.9	4	.04
26	24	4	.26	9.3	6	.15	3.6	4	.04
27	22	4	.24	8.7	6	.14	3.3	3	.03
28	21	5	.28	7.9	6	.13	3.6	2	.02
29	20	6	.32	7.3	6	.12	3.4	1	.01
30	20	7	.38	7.9	6	.13	2.8	1	.01
31	---	---	---	7.9	6	.13	---	---	---
MONTH	1003	---	11.02	406.4	---	7.33	155.2	---	1.38
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.8	4	.03	1.3	6	.02	1.4	8	.03
2	2.9	8	.06	1.4	6	.02	.23	8	.01
3	3.1	11	.09	1.5	6	.02	1.1	8	.02
4	3.4	14	.13	1.1	6	.02	.82	8	.02
5	3.3	16	.14	.79	7	.02	1.0	8	.02
6	3.0	14	.11	1.3	8	.03	1.0	8	.02
7	3.1	8	.07	1.2	12	.04	1.2	8	.03
8	2.9	5	.04	1.4	15	.06	1.1	8	.02
9	3.1	5	.04	1.2	15	.05	.95	8	.02
10	2.8	7	.05	1.3	13	.05	.61	8	.01
11	2.7	9	.07	.74	10	.02	.43	8	.01
12	2.6	10	.07	.65	6	.01	.54	8	.01
13	2.5	10	.07	1.6	4	.02	.93	8	.02
14	2.8	9	.07	1.2	3	.01	1.1	8	.02
15	2.7	7	.05	1.6	3	.01	1.0	8	.02
16	3.3	5	.04	1.2	4	.01	.74	8	.02
17	2.8	6	.05	1.4	4	.02	.99	8	.02
18	2.8	7	.05	1.6	4	.02	.79	8	.02
19	2.5	9	.06	2.4	4	.03	.85	8	.02
20	2.7	10	.07	2.2	5	.03	.78	8	.02
21	2.7	11	.08	1.4	5	.02	.89	8	.02
22	2.3	12	.07	1.1	5	.01	1.1	8	.02
23	2.6	12	.08	1.2	5	.02	.79	8	.02
24	2.1	12	.07	1.4	6	.02	.92	8	.02
25	1.9	10	.05	1.3	6	.02	.77	8	.02
26	1.5	8	.03	1.1	6	.02	.61	8	.01
27	1.5	7	.03	1.1	6	.02	.48	8	.01
28	1.4	5	.02	.70	7	.01	.53	8	.01
29	.79	5	.01	1.4	7	.03	.90	8	.02
30	1.0	5	.01	1.2	7	.02	.63	8	.01
31	.87	5	.01	1.5	7	.03	---	---	---
MONTH	76.46	---	1.82	40.48	---	.73	25.18	---	.54
YEAR	8771.25		3942.62						

## PAJARO RIVER BASIN

11153900 UVAS CREEK ABOVE UVAS RESERVOIR, NEAR MORGAN HILL, CALIF--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1974	31.33	0.63	0	1
NOVEMBER ...	62.20	0.90	0	1
DECEMBER ...	225.30	77.60	0	78
JANUARY 1975	117.70	7.73	0	8
FEBRUARY ...	3087.00	1462.75	109	1570
MARCH .....	3541.00	2370.19	119	2490
APRIL .....	1003.00	11.02	0	11
MAY .....	406.40	7.33	0	7
JUNE .....	155.20	1.38	0	1
JULY .....	76.46	1.82	0	2
AUGUST .....	40.48	0.73	0	1
SEPTEMBER ..	25.18	0.54	0	1
TOTAL .....	8771.25	3942.62	228	4171

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
DEC. 03...	0910	10.0	19	85	4.4	89	92	97	100	--
FEB. 01...	0940	8.0	83	30	6.7	100	--	--	--	--
01...	1415	9.0	191	201	104	99	100	--	--	--
09...	1105	11.0	372	96	96	96	99	100	--	--
13...	0845	10.0	543	115	169	92	98	100	--	--
MAR. 07...	0845	12.0	460	296	368	97	99	100	--	--
25...	0915	11.0	172	35	16	74	78	82	92	100

## 11154100 BODFISH CREEK NEAR GILROY, CALIF.

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

DRAINAGE AREA.--7.40 mi<sup>2</sup> (19.17 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--16 years, 3.85 ft<sup>3</sup>/s (0.109 m<sup>3</sup>/s), 2,790 acre-ft/yr (3.44 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 160 ft<sup>3</sup>/s (4.53 m<sup>3</sup>/s) Mar. 21 (gage height, 4.68 ft or 1.426 m); minimum daily, 0.02 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Sept. 26, 27.  
Period of record: Maximum discharge, 1,240 ft<sup>3</sup>/s (35.1 m<sup>3</sup>/s) Jan. 31, 1963 (gage height, 8.25 ft or 2.515 m), from rating curve extended above 580 ft<sup>3</sup>/s (16.4 m<sup>3</sup>/s); no flow at times.

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

REVISIONS (WATER YEARS).--WRD Calif. 1969: 1967(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.18	.43	1.4	.63	2.1	1.9	4.8	2.5	.97	.39	.27	.15
2	.27	.39	1.8	.63	25	1.9	4.6	2.5	.97	.39	.22	.12
3	.24	.39	4.6	.63	18	1.8	4.3	2.1	.97	.54	.18	.11
4	.27	.39	2.7	.63	5.8	1.8	4.3	1.8	.84	.63	.22	.07
5	.22	.39	1.6	.63	3.1	1.9	8.5	1.8	.84	.63	.22	.07
6	.22	.39	1.1	.97	2.3	2.1	12	1.8	.84	.63	.22	.07
7	.22	.46	.84	.97	1.9	16	9.2	2.1	.84	.63	.18	.09
8	.27	.54	.84	2.3	3.1	36	13	1.9	.84	.63	.15	.12
9	.27	.46	.63	1.8	18	20	8.5	1.9	.84	.54	.15	.09
10	.22	.46	.63	1.4	22	12	7.1	1.9	.73	.54	.15	.09
11	.22	.46	.63	1.3	8.1	7.7	6.1	1.8	.73	.54	.18	.09
12	.22	.46	.73	1.1	4.3	5.8	5.5	1.8	.73	.54	.18	.09
13	.22	.46	.73	.97	69	8.8	5.0	1.8	.73	.54	.18	.12
14	.22	.46	.84	.84	18	7.4	5.0	1.8	.73	.54	.22	.12
15	.22	.46	.84	.73	8.1	7.1	4.8	1.6	.73	.54	.18	.09
16	.22	.46	.84	.63	5.5	21	4.6	1.6	.73	.54	.18	.07
17	.18	.63	.84	.54	4.3	10	4.6	1.4	.63	.54	.18	.07
18	.18	1.1	.84	.54	3.6	7.7	4.3	1.4	.63	.46	.27	.05
19	.22	1.3	.84	.54	3.8	6.4	4.1	1.4	.63	.46	.27	.05
20	.22	1.3	.97	.54	4.6	5.5	3.6	1.4	.73	.46	.18	.05
21	.22	2.3	.84	.54	3.4	21	3.6	1.4	.73	.39	.18	.05
22	.22	1.6	.97	.63	2.9	36	3.4	1.4	.73	.39	.15	.05
23	.22	1.3	.97	.46	2.5	14	3.1	1.3	.63	.39	.12	.04
24	.18	1.1	.97	.46	2.3	9.6	3.4	1.3	.63	.33	.09	.04
25	.18	1.4	.97	.54	2.1	36	3.4	1.3	.63	.39	.09	.03
26	.22	1.4	.97	.54	2.1	16	3.1	1.3	.46	.33	.15	.02
27	.22	1.3	1.3	.54	2.1	11	2.9	1.3	.54	.39	.15	.02
28	1.1	1.3	1.6	.54	1.9	8.1	2.7	1.1	.54	.39	.12	.03
29	.39	1.3	1.1	.54	---	7.1	2.7	.97	.54	.46	.12	.03
30	.27	1.3	.84	.54	---	5.8	2.5	.97	.54	.46	.09	.04
31	.46	---	.73	.73	---	5.3	---	.97	---	.39	.12	---
TOTAL	8.18	25.69	35.50	24.38	249.9	352.7	154.7	49.61	21.65	15.02	5.36	2.13
MEAN	.26	.86	1.15	.79	8.93	11.4	5.16	1.60	.72	.48	.17	.071
MAX	1.1	2.3	4.6	2.3	69	36	13	2.5	.97	.63	.27	.15
MIN	.18	.39	.63	.46	1.9	1.8	2.5	.97	.46	.33	.09	.02
AC=FT	16	51	70	48	496	700	307	98	43	30	11	4.2
CAL YR 1974 TOTAL	2813.11			MEAN 7.71	MAX 230	MIN .18	AC=FT 5580					
WTR YR 1975 TOTAL	944.82			MEAN 2.59	MAX 69	MIN .02	AC=FT 1870					

Peak discharge (base, 150 ft<sup>3</sup>/s).--Mar. 21 (2300) 160 ft<sup>3</sup>/s (4.68 ft).

## PAJARO RIVER BASIN

11154200 UVAS CREEK NEAR GILROY, CALIF.

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

DRAINAGE AREA.--71.2 mi<sup>2</sup> (184.4 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--16 years, 37.8 ft<sup>3</sup>/s (1.070 m<sup>3</sup>/s), 27,390 acre-ft/yr (33.8 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,460 ft<sup>3</sup>/s (69.7 m<sup>3</sup>/s) Mar. 22 (gage height, 9.29 ft or 2.832 m); no flow many days.

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

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Flow regulated by Uvas Reservoir 10 mi (16 km) upstream (see sta 11154020). Diversion above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1		0	2.1	.66	0	18	44	10	1.1	3.7		
2		0	2.5	.49	15	17	41	9.4	.64	5.5		
3		0	8.6	.23	53	17	39	8.3	.64	5.2		
4		0	10	.11	51	17	50	8.1	.14	3.5		
5		.06	7.2	.04	31	19	84	7.2	0	5.5		
6		.01	4.3	.02	18	60	110	6.1	0	5.3		
7		0	2.7	0	12	150	86	5.7	0	6.1		
8		0	2.3	0	8.8	330	120	5.5	0	5.0		
9		0	2.0	0	84	170	81	6.1	0	3.3		
10		0	1.4	0	181	110	50	6.3	0	2.1		
11		.41	2.0	0	81	80	30	6.1	0	1.2		
12		.25	1.9	0	51	58	27	6.3	0	.16		
13		.25	1.7	0	215	80	24	6.7	0	.19		
14		.05	1.5	0	123	66	23	6.3	0	.69		
15		0	1.5	0	68	100	23	6.5	0	0		
16		0	1.4	0	51	195	22	7.2	0	.26		
17		0	.93	0	40	98	21	6.9	0	1.9		
18		.20	.91	0	33	69	21	6.1	0	2.7		
19		.69	.92	0	28	57	20	5.2	0	2.6		
20		.93	1.0	0	26	51	18	5.2	.08	1.5		
21		1.8	.92	0	22	300	17	5.5	1.0	1.3		
22		3.4	1.0	0	26	1180	17	6.1	1.3	1.0		
23		3.0	1.0	0	23	270	15	5.5	1.6	.11		
24		2.7	1.0	0	21	90	15	3.0	1.4	0		
25		2.3	1.0	0	20	315	16	2.4	1.3	0		
26		2.1	1.1	0	19	160	15	2.6	1.5	0		
27		2.2	1.3	0	18	96	14	4.1	2.0	0		
28		2.4	1.7	0	18	81	13	3.7	2.0	0		
29		2.3	1.3	0	---	65	13	1.6	2.4	0		
30		2.2	.94	0	---	56	12	1.1	2.5	.01		
31		---	.81	0	---	48	---	1.1	---	0		---
TOTAL	0	27.25	68.93	1.55	1336.8	4423	1081	171.9	19.60	58.82	0	0
MEAN	0	.91	2.22	.050	47.7	143	36.0	5.55	.65	1.90	0	0
MAX	0	3.4	10	.66	215	1180	120	10	2.5	6.1	0	0
MIN	0	0	.81	0	0	17	12	1.1	0	0	0	0
AC-FT	0	54	137	3.1	2650	8770	2140	341	39	117	0	0
CAL YR 1974	TOTAL	20036.32	MEAN 54.9	MAX 1530	MIN 0	AC-FT 39740						
WTR YR 1975	TOTAL	7188.85	MEAN 19.7	MAX 1180	MIN 0	AC-FT 14260						

NOTE.--No gage-height record Feb. 22 to Apr. 30.

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

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

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

EXTREMES.--Current year: Maximum discharge, 753 ft<sup>3</sup>/s (21.3 m<sup>3</sup>/s) Mar. 8 (gage height, 7.05 ft or 2.149 m), from rating curve extended above 96 ft<sup>3</sup>/s (2.72 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 12.94 ft (3.944 m), present datum; minimum daily, 3.2 ft<sup>3</sup>/s (0.091 m<sup>3</sup>/s) Oct. 18, 19.

Period of record: Maximum discharge, 8,210 ft<sup>3</sup>/s (232 m<sup>3</sup>/s) Apr. 3, 1958 (gage height, 8.35 ft or 2.545 m, site and datum then in use), from rating curve extended above 600 ft<sup>3</sup>/s (17.0 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times.

Flood of February 1938, reached a stage of about 9.0 ft (2.74 m) former datum, from floodmarks.

REMARKS.--Records poor. Flow regulated by Hernandez Reservoir 40 mi (64 km) upstream beginning in December 1961, capacity, 18,700 acre-ft (23.1 hm<sup>3</sup>). Small diversion above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1565: 1948(M), 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.9	7.1	4.1	7.2	36	8.8	17	10	52	39	41	45
2	5.2	6.7	4.6	7.0	428	8.2	15	10	53	39	40	45
3	6.4	6.4	31	6.6	120	8.2	13	10	54	39	39	43
4	5.8	6.1	39	6.6	46	7.9	12	10	54	38	39	41
5	5.8	5.8	23	6.3	32	9.1	17	10	46	38	38	40
6	4.9	5.8	14	6.3	25	13	26	10	40	36	37	39
7	6.1	5.8	12	6.6	23	251	19	10	40	35	40	38
8	8.2	6.1	11	6.9	19	349	17	10	41	35	40	41
9	6.4	5.8	10	7.0	44	117	31	9.7	40	34	39	46
10	5.8	5.8	9.8	6.5	45	61	20	9.4	39	33	39	44
11	4.9	5.2	9.6	6.2	32	50	12	9.4	39	32	40	45
12	4.9	4.6	9.2	5.6	26	38	9.1	9.1	40	33	42	43
13	4.3	4.6	8.5	5.6	37	32	8.1	9.1	40	34	43	43
14	4.1	4.3	8.4	5.4	53	30	8.7	8.8	41	40	44	43
15	3.9	4.3	8.1	5.3	30	38	8.7	9.1	41	44	43	43
16	3.4	4.3	7.7	5.1	24	30	8.8	8.8	42	47	44	43
17	3.4	4.3	7.6	4.9	20	22	9.0	8.5	42	42	44	43
18	3.2	4.6	7.5	4.8	18	20	9.0	8.2	43	43	48	41
19	3.2	4.3	7.5	4.6	17	19	9.0	7.9	44	43	51	41
20	3.4	4.6	7.2	4.4	17	18	9.0	7.9	45	41	49	42
21	3.4	4.9	7.0	4.3	15	170	11	7.6	44	41	48	42
22	3.4	7.0	6.5	4.1	13	215	12	38	43	41	45	42
23	3.4	5.8	6.5	4.0	12	108	12	42	42	39	44	42
24	3.4	5.2	6.4	4.0	11	150	12	46	42	37	43	41
25	3.4	4.9	6.4	3.9	11	240	16	48	41	38	44	42
26	3.6	4.6	6.3	3.9	9.7	93	15	49	41	37	45	42
27	3.6	4.6	7.2	3.9	9.4	59	13	49	40	37	47	42
28	8.3	4.6	16	3.9	8.8	39	11	50	40	38	46	43
29	10	4.6	10	4.1	---	34	11	51	39	40	46	43
30	7.8	4.3	8.7	4.1	---	27	10	51	39	40	46	43
31	7.3	---	7.8	4.3	---	21	---	51	---	42	46	---
TOTAL	154.8	157.0	328.6	163.4	1181.9	2286.2	401.4	668.5	1287	1195	1340	1271
MEAN	4.99	5.23	10.6	5.27	42.2	73.7	13.4	21.6	42.9	38.5	43.2	42.4
MAX	10	7.1	39	7.2	428	349	31	51	54	47	51	46
MIN	3.2	4.3	4.1	3.9	8.8	7.9	8.1	7.6	39	32	37	38
AC-FT	307	311	652	324	2340	4530	796	1330	2550	2370	2660	2520
CAL YR 1974	TOTAL	8019.5	MEAN	22.0	MAX	211	MIN	1.5	AC-FT	15910		
WTR YR 1975	TOTAL	10434.8	MEAN	28.6	MAX	428	MIN	3.2	AC-FT	20700		

## PAJARO RIVER BASIN

11157500 TRES PINOS CREEK NEAR TRES PINOS, CALIF.

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

DRAINAGE AREA.--206 mi<sup>2</sup> (534 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE (unadjusted).--36 years, 13.6 ft<sup>3</sup>/s (0.385 m<sup>3</sup>/s), 9,850 acre-ft/yr (12.1 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 5,180 ft<sup>3</sup>/s (147 m<sup>3</sup>/s) Mar. 7 (gage height, 9.28 ft or 2.829 m), from rating curve extended above 69 ft<sup>3</sup>/s (1.95 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 9.49 ft (2.893 m); minimum daily, 0.84 ft<sup>3</sup>/s (0.024 m<sup>3</sup>/s) Mar. 2-4.

Period of record: Maximum discharge, 8,060 ft<sup>3</sup>/s (228 m<sup>3</sup>/s) Apr. 4, 1941 (gage height, 7.75 ft or 2.362 m), from rating curve extended above 3,500 ft<sup>3</sup>/s (99.1 m<sup>3</sup>/s); maximum gage height, 9.88 ft (3.011 m) Feb. 11, 1973; no flow at times in 1952, 1957-61, 1965.

Flood in February 1938 reached at stage of about 9.0 ft (2.74 m), from floodmarks.

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

REVISIONS.--WSP 1715: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.1	2.9	2.8	27	.96	4.5	4.0	11	10	11	8.1
2	2.9	3.0	3.2	2.8	537	.84	4.2	4.2	12	11	12	8.1
3	2.7	3.0	3.5	2.7	35	.84	3.5	4.2	13	11	11	8.1
4	2.7	3.0	3.2	2.8	9.3	.84	3.0	4.2	13	11	9.3	8.1
5	2.7	3.1	3.1	2.7	7.0	.96	5.7	4.2	14	11	9.3	8.1
6	2.7	3.0	3.0	2.7	6.7	.96	9.8	4.8	14	11	9.8	8.1
7	2.6	3.2	3.1	2.5	6.3	1100	8.1	4.0	15	11	9.8	8.1
8	2.7	3.2	3.0	2.6	6.3	244	7.7	4.0	15	11	9.3	8.5
9	2.7	3.1	2.9	2.5	21	191	13	4.0	15	11	9.3	8.8
10	2.5	2.9	2.9	2.5	25	120	10	4.0	14	11	9.3	8.6
11	2.5	2.9	2.9	2.3	16	72	7.4	4.2	13	11	8.9	8.5
12	2.5	3.1	2.9	2.6	6.0	42	5.7	3.5	12	11	8.9	8.4
13	2.4	3.2	2.9	2.6	35	23	4.8	2.0	11	11	8.9	8.4
14	2.4	3.0	2.9	2.5	31	23	4.5	4.0	11	11	8.9	8.1
15	2.4	2.9	2.8	2.5	6.3	22	4.2	4.0	10	11	8.5	8.0
16	2.4	2.9	2.6	2.5	1.8	21	4.2	4.0	9.8	12	8.5	8.3
17	2.4	2.9	2.7	2.5	1.2	22	4.2	4.2	9.3	12	8.5	8.1
18	2.5	2.8	2.7	2.5	1.2	16	4.8	4.5	9.3	11	8.5	8.3
19	2.5	2.7	2.6	2.4	1.2	11	4.5	7.4	9.3	11	8.9	8.8
20	2.3	2.7	2.6	2.8	11	6.7	4.2	7.0	9.3	11	8.9	8.9
21	2.3	3.0	2.7	2.9	8.1	4.2	4.2	7.0	9.3	11	8.9	8.9
22	2.3	2.9	2.7	2.8	3.2	147	4.0	8.9	9.3	10	8.9	8.9
23	2.4	2.9	2.9	2.9	1.5	97	4.0	8.9	9.3	11	8.5	9.3
24	2.5	2.9	2.9	2.9	1.1	31	4.0	8.1	9.3	10	8.5	9.3
25	2.5	2.9	2.9	2.9	1.1	116	4.5	7.4	9.3	9.8	8.1	9.3
26	2.5	2.9	2.8	2.9	1.1	88	4.0	7.7	9.8	9.8	8.1	9.3
27	2.6	2.9	2.9	2.9	1.1	29	4.0	8.5	9.8	9.3	7.7	9.3
28	3.0	2.9	2.9	2.9	.96	15	4.0	9.3	9.8	9.3	8.1	9.3
29	2.9	2.9	2.9	2.9	---	9.8	4.0	11	9.8	8.9	8.1	9.3
30	2.9	2.9	2.8	2.9	---	7.0	4.0	12	10	8.9	8.1	9.8
31	3.0	---	2.9	2.9	---	5.7	---	10	---	8.9	8.5	---
TOTAL	79.9	88.8	89.7	83.6	809.46	2468.80	158.7	185.2	335.7	327.9	279.0	259.1
MEAN	2.58	2.96	2.89	2.70	28.9	79.6	5.29	5.97	11.2	10.6	9.00	8.64
MAX	3.0	3.2	3.5	2.9	537	1100	13	12	15	12	12	9.8
MIN	2.3	2.7	2.6	2.3	.96	.84	3.0	2.0	9.3	8.9	7.7	8.0
AC-FT	158	176	178	166	1610	4900	315	367	666	650	553	514
CAL YR 1974	TOTAL	4505.80	MEAN	12.3	MAX	650	MIN	2.3	AC-FT	8940		
WTR YR 1975	TOTAL	5165.86	MEAN	14.2	MAX	1100	MIN	.84	AC-FT	10250		

Peak discharge (base, 450 ft<sup>3</sup>/s).--Feb. 2 (0545) 2,200 ft<sup>3</sup>/s (7.73 ft); Mar. 7 (1630) 5,180 ft<sup>3</sup>/s (9.28 ft).



11158500 SAN BENITO RIVER NEAR HOLLISTER, CALIF.

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

DRAINAGE AREA.--586 mi<sup>2</sup> (1,518 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--26 years, 29.4 ft<sup>3</sup>/s (0.833 m<sup>3</sup>/s), 21,300 acre-ft/yr (26.3 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 6,880 ft<sup>3</sup>/s (195 m<sup>3</sup>/s) Mar. 8 (gage height, 13.42 ft or 4.090 m); minimum daily, 1.3 ft<sup>3</sup>/s (0.037 m<sup>3</sup>/s) Oct. 1, 2.  
Period of record: Maximum discharge, 11,600 ft<sup>3</sup>/s (329 m<sup>3</sup>/s) Apr. 3, 1958 (gage height, 16.30 ft or 4.968 m), from rating curve extended above 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s) on basis of flood-routing study; no flow at times.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Flow regulated by Hernandez Reservoir 67 mi (108 km) upstream beginning in December 1961, capacity, 18,700 acre-ft (23.1 hm<sup>3</sup>). Several small diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	10	8.1	13	18	5.2	18	7.7	27	23	18	35
2	1.3	8.9	9.0	12	1800	4.6	18	7.3	24	23	16	34
3	2.2	7.1	21	11	399	4.3	15	6.6	22	23	17	35
4	5.6	5.6	55	11	32	4.6	14	6.9	21	23	17	32
5	3.4	5.3	40	11	25	4.6	22	6.9	20	23	17	25
6	3.4	5.3	18	11	21	5.5	32	6.9	28	24	17	21
7	2.8	5.4	14	12	18	15	25	6.2	27	22	15	16
8	4.5	5.7	11	13	15	1980	21	5.2	25	23	15	19
9	5.7	5.4	9.0	13	19	931	39	5.2	25	21	16	22
10	4.6	5.2	7.7	12	49	244	23	5.2	22	21	21	28
11	3.6	4.7	6.9	11	35	82	16	4.9	22	20	28	31
12	3.4	4.4	7.3	10	14	68	12	4.9	23	19	29	32
13	3.2	4.2	6.6	10	18	68	10	6.6	23	20	29	39
14	2.9	4.0	6.2	10	88	64	11	5.8	14	22	30	44
15	2.7	3.9	6.6	9.5	32	82	11	6.2	19	24	30	48
16	2.5	3.9	6.6	9.3	18	59	11	6.2	21	16	30	47
17	2.3	4.0	6.6	9.0	15	44	11	5.8	21	19	30	43
18	2.2	4.3	6.6	8.7	14	42	11	4.3	23	19	32	35
19	2.2	4.0	6.6	8.3	13	40	11	2.9	24	15	34	34
20	2.3	4.2	6.2	8.1	14	38	11	2.9	26	11	34	33
21	2.4	5.0	6.6	7.8	24	365	13	2.5	25	11	33	34
22	2.4	12	6.9	7.6	14	462	15	2.1	25	11	30	35
23	2.4	10	7.0	7.3	8.5	228	11	32	24	15	30	34
24	2.4	9.4	7.2	7.2	8.1	358	9.2	50	24	20	29	31
25	2.4	9.0	7.4	7.2	7.7	515	13	52	25	27	30	26
26	2.5	8.5	7.7	7.7	7.3	207	17	55	24	28	29	23
27	3.6	8.1	7.3	6.9	6.6	126	13	57	24	30	31	23
28	13	8.1	17	6.9	5.8	62	11	40	23	32	32	24
29	15	8.1	27	7.3	---	46	9.0	36	24	33	32	26
30	16	8.1	17	7.3	---	30	7.7	33	24	33	33	25
31	11	---	15	7.3	---	24	---	30	---	27	35	---
TOTAL	135.2	191.8	385.1	293.4	2739.0	6208.8	460.9	504.2	699	678	819	934
MEAN	4.36	6.39	12.4	9.46	97.8	200	15.4	16.3	23.3	21.9	26.4	31.1
MAX	16	12	55	13	1800	1980	39	57	28	33	35	48
MIN	1.3	3.9	6.2	6.9	5.8	4.3	7.7	2.1	14	11	15	16
AC=FT	268	380	764	582	5430	12320	914	1000	1390	1340	1620	1850
CAL YR 1974	TOTAL	13834.56	MEAN 37.9	MAX 2440	MIN .18	AC=FT 27440						
WTR YR 1975	TOTAL	14048.40	MEAN 38.5	MAX 1980	MIN 1.3	AC=FT 27860						

NOTE.--No gage-height record Oct. 1-30.

## PAJARO RIVER BASIN

11158600 SAN BENITO RIVER AT STATE HIGHWAY 156, NEAR HOLLISTER, CALIF.

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

DRAINAGE AREA.--607 mi<sup>2</sup> (1,572 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--5 years, 21.1 ft<sup>3</sup>/s (0.598 m<sup>3</sup>/s), 15,290 acre-ft/yr (18.9 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 3,430 ft<sup>3</sup>/s (97.1 m<sup>3</sup>/s) Mar. 7 (gage height, 7.27 ft or 2.216 m); no flow many days.

Period of record: Maximum discharge, 8,030 ft<sup>3</sup>/s (227 m<sup>3</sup>/s) Feb. 11, 1973 (gage height, 9.18 ft or 2.798 m), from rating curve extended above 2,400 ft<sup>3</sup>/s (68.0 m<sup>3</sup>/s); no flow many days in each year.

REMARKS.--Records poor. Flow regulated by Hernandez Reservoir 73 mi (117 km) upstream, capacity, 18,700 acre-ft (23.1 hm<sup>3</sup>). Some small diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48		0	7.7	5.6	0	12	1.8	12	11	11	9.8
2	3.5		0	7.1	1000	0	13	1.7	11	11	8.3	9.8
3	3.5		5.8	6.6	422	0	11	1.7	11	11	7.6	9.8
4	3.5		34	6.1	56	0	9.8	1.7	12	11	7.6	11
5	3.9		41	6.1	27	0	14	1.7	9.8	11	6.9	10
6	.22		28	6.1	20	.02	23	1.6	12	11	7.6	7.6
7	.02		22	6.1	16	711	18	1.5	15	9.4	5.2	4.2
8	.02		18	6.1	9.5	803	14	1.4	12	9.8	4.2	5.2
9	.01		14	5.6	12	198	28	1.3	13	8.3	4.6	6.0
10	.01		14	5.6	29	52	19	1.2	11	7.6	5.7	7.0
11	.01		12	5.1	23	47	14	1.2	9.8	6.9	12	7.8
12	0		12	4.7	11	31	8.3	1.3	10	6.9	12	8.8
13	0		7.1	4.7	13	26	6.9	1.6	10	7.6	9.4	10
14	0		6.6	4.7	41	118	7.6	1.4	8.0	8.3	11	11
15	0		6.6	4.7	17	84	7.6	1.5	6.6	9.8	12	12
16	0		7.1	4.7	8.3	85	7.6	1.5	9.4	11	12	12
17	0		6.1	4.3	5.6	96	7.6	1.2	9.6	5.2	11	9.3
18	0		5.6	4.3	4.3	52	5.7	1.0	10	9.8	11	6.9
19	0		6.1	3.9	3.1	28	4.6	.72	11	6.9	14	6.2
20	0		5.6	3.5	3.1	17	3.7	.70	12	5.2	13	6.0
21	0		5.6	3.5	14	19	3.7	.62	12	3.3	11	6.2
22	0		5.6	3.5	4.5	404	4.6	.54	11	3.7	9.8	6.2
23	0		5.6	3.1	.93	243	3.7	.50	11	4.6	9.8	6.2
24	0		5.1	3.1	.80	109	2.9	21	11	11	8.3	5.5
25	0		5.1	3.1	.68	224	2.9	22	12	19	8.3	4.8
26	0		5.6	2.8	.40	230	5.2	23	11	18	7.6	4.2
27	0		6.1	2.5	.10	102	3.3	24	11	18	6.9	4.2
28	0		7.7	2.8	.02	60	2.6	20	11	17	7.6	4.3
29	0		9.5	2.8	---	35	2.3	17	11	18	8.3	4.6
30	0		7.7	3.1	---	22	2.0	15	11	18	7.6	4.4
31	0	---	7.7	3.1	---	17	---	13	---	18	6.9	---
TOTAL	15.17	0	322.9	141.1	1747.93	3813.02	268.6	184.38	327.2	327.3	278.2	221.0
MEAN	.49	0	10.4	4.55	62.4	123	8.95	5.95	10.9	10.6	8.97	7.37
MAX	3.9	0	41	7.7	1000	803	28	24	15	19	14	12
MIN	0	0	0	2.5	.02	0	2.0	.50	6.6	3.3	4.2	4.2
AC-FT	30	0	640	280	3470	7560	533	366	649	649	552	438
CAL YR 1974	TOTAL	7352.18	MEAN	20.1	MAX	1340	MIN	0	AC-FT	14580		
WTR YR 1975	TOTAL	7646.80	MEAN	21.0	MAX	1000	MIN	0	AC-FT	15170		

## 11158900 PESCADERO CREEK NEAR CHITTENDEN, CALIF.

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

DRAINAGE AREA.--10.2 mi<sup>2</sup> (26.4 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--5 years, 3.97 ft<sup>3</sup>/s (0.112 m<sup>3</sup>/s), 2,880 acre-ft/yr (3.55 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 110 ft<sup>3</sup>/s (3.12 m<sup>3</sup>/s) Mar. 21 (gage height, 4.89 ft or 1.490 m); minimum daily, 0.03 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Sept. 25, 26.  
Period of record: Maximum discharge, 326 ft<sup>3</sup>/s (9.23 m<sup>3</sup>/s) Nov. 14, 1972 (gage height, 7.08 ft or 2.158 m), from rating curve extended above 150 ft<sup>3</sup>/s (4.25 m<sup>3</sup>/s); no flow at times.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.72	.60	.72	1.9	1.4	7.2	1.0	.41	.50	.20	.06
2	.33	.60	.72	.72	3.5	1.2	6.2	1.0	.41	.49	.15	.05
3	.34	.60	2.5	.72	2.2	1.2	6.2	1.0	.41	.50	.16	.04
4	.32	.60	1.4	.72	1.9	1.2	6.2	.86	.41	.54	.17	.04
5	.33	.60	.72	.86	1.9	1.6	12	.72	.34	.50	.16	.04
6	.32	.60	.60	1.4	1.4	1.4	22	.72	.41	.45	.15	.05
7	.34	.60	.60	1.2	1.4	13	15	.60	.41	.45	.15	.05
8	.41	.72	.60	2.5	1.4	27	15	.60	.41	.44	.19	.11
9	.34	.60	.60	1.4	8.2	17	11	.50	.41	.43	.32	.17
10	.34	.60	.72	1.0	13	9.4	8.8	.60	.41	.39	.30	.16
11	.27	.60	.72	.86	6.2	6.7	7.7	.50	.41	.42	.33	.16
12	.22	.60	.72	.86	4.3	4.7	6.7	.50	.41	.45	.34	.16
13	.22	.60	.72	.86	37	11	6.2	.41	.41	.54	.32	.15
14	.22	.60	.72	.86	13	9.4	5.7	.41	.41	.56	.29	.16
15	.22	.60	.72	.86	6.7	6.7	5.7	.41	.41	.60	.28	.14
16	.22	.72	.72	.86	4.7	26	5.2	.41	.50	.49	.30	.09
17	.22	.72	.86	.86	3.5	13	5.2	.41	.50	.44	.30	.07
18	.22	.72	.86	.86	2.8	8.8	3.9	.34	.50	.40	.30	.08
19	.22	.72	.86	.86	3.2	7.2	3.9	.41	.50	.34	.28	.09
20	.27	.72	.86	.86	4.3	5.7	3.9	.41	.60	.31	.24	.07
21	.27	.86	.86	.86	2.5	11	3.2	.41	.50	.28	.20	.09
22	.27	.86	.86	.86	1.9	39	2.5	.41	.50	.25	.17	.08
23	.27	.72	.86	.86	1.6	16	2.2	.41	.50	.21	.12	.07
24	.27	.72	.86	.86	1.6	13	2.2	.41	.72	.20	.08	.04
25	.27	.86	.86	.86	1.6	41	2.5	.41	.60	.17	.10	.03
26	.27	.86	.86	.86	1.4	21	1.4	.60	.60	.18	.11	.03
27	.27	.72	.86	.86	1.4	14	1.2	.60	.60	.18	.11	.04
28	.86	.72	1.4	.86	1.4	11	1.2	.50	.60	.19	.09	.06
29	.72	.60	.86	.86	---	9.4	1.0	.34	.50	.23	.06	.08
30	.60	.60	.86	.86	---	8.8	.86	.34	.50	.20	.05	.11
31	.72	---	.86	1.0	---	7.7	---	.34	---	.20	.05	---
TOTAL	10.44	20.36	26.82	29.44	135.9	365.5	181.96	16.68	14.30	11.53	6.07	2.57
MEAN	.34	.68	.87	.95	4.85	11.8	6.07	.53	.48	.37	.20	.086
MAX	.86	.86	2.5	2.5	37	41	22	1.0	.72	.60	.34	.17
MIN	.22	.60	.60	.72	1.4	1.2	.86	.34	.34	.17	.05	.03
AC-FT	21	40	53	58	270	725	361	33	28	23	12	5.1
(a)	1.67	.64	2.30	1.34	3.65	5.16	2.35	.02	0	.05	.57	.11
CAL YR 1974	TOTAL	2685.82	MEAN 7.36	MAX 148	MIN .22	AC-FT 5330						
WTR YR 1975	TOTAL	821.47	MEAN 2.25	MAX 41	MIN .03	AC-FT 1630						

Date	Time	G.H.	Discharge (base, 70 ft <sup>3</sup> /s)	Date	Time	G.H.	Discharge	a Precipitation, in inches.
2-13	0915	4.80	98	3-25	0700	4.61	72	
3-21	2400	4.89	110					

## PAJARO RIVER BASIN

11159000 PAJARO RIVER AT CHITTENDEN, CALIF.

LOCATION.--Lat 36°54'01", long 121°35'48", in Salsipuedes Grant, Santa Cruz County, on left bank at downstream side of bridge on State Highway 129, 0.6 mi (1.0 km) downstream from Pescadero Creek, 0.6 mi (1.0 km) southeast of Chittenden, and 2.3 mi (3.7 km) downstream from San Benito River. Prior to Aug. 20, 1975, at downstream side of right bank pier of bridge.

DRAINAGE AREA.--1,186 mi<sup>2</sup> (3,072 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--36 years, 146 ft<sup>3</sup>/s (4.135 m), 105,800 acre-ft/yr (130 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 3,230 ft<sup>3</sup>/s (91.5 m<sup>3</sup>/s) Mar. 22 (gage height, 10.44 ft or 3.182 m); minimum daily, 3.2 ft<sup>3</sup>/s (0.091 m<sup>3</sup>/s) Aug. 4.

Period of record: Maximum discharge, 24,000 ft<sup>3</sup>/s (680 m<sup>3</sup>/s) Dec. 24, 1955 (gage height, 32.46 ft or 9.894 m), from rating curve extended above 8,300 ft<sup>3</sup>/s (235 m<sup>3</sup>/s) on basis of slope-conveyance study; maximum gage height, 33.11 ft (10.092 m) Apr. 3, 1958; no flow at times in July, August 1948.

Flood in February 1938, reached a stage of 31.3 ft (9.54 m), from floodmarks.

REMARKS.--Records fair except those for period of no gage-height record, which are poor. Flow regulated by Hernandez Reservoir, capacity, 18,700 acre-ft (23.1 hm<sup>3</sup>), Pacheco Lake, capacity, 6,150 acre-ft (7.58 hm<sup>3</sup>), Chesbro Reservoir (see sta 11153480), Uvas Reservoir (see sta 11154020), and San Felipe Lake. Many diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.2	8.9	15	20	42	40	304	133	37	8.5	10	5.2
2	6.7	8.4	15	20	392	39	262	122	34	9.2	6.7	4.2
3	5.8	7.9	15	20	475	39	235	120	34	8.9	3.7	4.2
4	4.5	8.4	14	20	217	36	221	115	34	9.4	3.2	4.8
5	4.2	8.9	15	20	137	38	274	103	35	8.4	3.9	5.5
6	3.9	8.9	14	25	77	45	344	100	36	7.5	4.2	6.3
7	4.2	9.9	14	26	55	147	360	98	36	8.4	4.2	5.9
8	5.2	10	14	31	38	1240	380	97	33	10	3.4	5.2
9	5.2	11	15	25	66	755	388	87	31	12	4.8	6.7
10	5.5	11	17	19	290	501	345	73	27	12	10	7.5
11	5.5	11	19	19	290	438	305	62	25	11	9.4	5.5
12	5.5	11	19	18	182	368	265	55	23	11	10	5.5
13	5.2	12	17	18	288	313	240	48	20	9.4	11	5.9
14	6.2	11	17	18	430	418	218	44	18	12	8.4	4.8
15	6.2	11	17	19	284	398	215	41	16	13	9.6	3.4
16	6.4	11	17	20	203	622	211	41	15	12	9.4	4.2
17	6.3	12	18	19	156	615	210	41	14	10	8.4	3.7
18	5.8	12	18	20	123	485	208	41	13	9.4	5.9	3.9
19	6.0	12	18	18	104	423	203	40	12	10	6.3	4.2
20	7.5	13	19	18	94	335	193	39	12	10	6.3	4.5
21	8.4	14	18	18	82	280	188	39	11	5.9	6.3	5.5
22	8.8	15	18	17	77	2300	182	39	11	4.5	6.3	5.2
23	8.3	13	17	17	65	1750	178	39	10	5.9	4.5	5.2
24	7.9	13	18	16	58	1080	176	39	9.8	7.5	3.4	4.8
25	7.1	15	20	17	57	1110	176	39	9.3	6.3	3.7	5.9
26	7.1	15	20	18	51	1050	172	39	8.5	4.8	3.9	7.1
27	7.5	14	22	18	47	767	163	39	11	4.5	4.8	5.5
28	11	16	27	18	40	622	145	38	12	5.2	5.9	4.8
29	11	16	23	18	---	516	140	38	10	9.4	5.2	5.2
30	8.9	16	20	18	---	425	138	38	8.1	11	5.5	4.8
31	8.9	---	20	23	---	359	---	38	---	11	5.9	---
TOTAL	205.9	356.3	550	611	4420	17554	7039	1925	605.7	278.1	194.2	155.1
MEAN	6.64	11.9	17.7	19.7	158	566	235	62.1	20.2	8.97	6.26	5.17
MAX	11	16	27	31	475	2300	388	133	37	13	11	7.5
MIN	3.9	7.9	14	16	38	36	138	38	8.1	4.5	3.2	3.4
AC-FT	408	707	1090	1210	8770	34820	13960	3820	1200	552	385	308
CAL YR 1974 TOTAL	58931.3		MEAN 161		MAX 4310		MIN 3.9	AC-FT 116900				
WTR YR 1975 TOTAL	33894.3		MEAN 92.9		MAX 2300		MIN 3.2	AC-FT 67230				

NOTE.--No gage-height record Apr. 6 to July 3.

11159000 PAJARO RIVER AT CHITTENDEN, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1966, water years 1967-69 (partial-record station), November 1969 to September 1971, water years 1972 to current year (partial-record station).

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)
DEC. 19...	1020	--	18	82	--	104	418	0	343	212	98	2.7
APR. 04...	0810	--	219	46	--	45	244	0	200	92	41	--
MAY 27...	1700	39	--	72	77	115	459	0	376	212	103	--

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)
DEC. 19...	840	1.14	40.8	479	140	--	950	8.0	8.0	10.5	6.7	500
APR. 04...	411	.56	243	261	61	--	670	7.9	14.5	9.1	4.9	200
MAY 27...	905	1.23	95.3	495	120	2.2	1300	8.0	24.0	7.6	7.3	700

## 11159200 CORRALITOS CREEK AT FREEDOM, CALIF.

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

DRAINAGE AREA.--27.8 mi<sup>2</sup> (72.0 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--19 years, 14.8 ft<sup>3</sup>/s (0.419 m<sup>3</sup>/s), 10,720 acre-ft/yr (13.2 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 521 ft<sup>3</sup>/s (14.8 m<sup>3</sup>/s) Feb. 13 (gage height, 5.90 ft or 1.798 m); minimum daily, 0.02 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Jan. 23, 24.  
Period of record: Maximum discharge, 2,680 (75.9 m<sup>3</sup>/s) Apr. 2, 1958 (gage height, 12.59 ft or 3.837 m); no flow at times.  
Flood of Dec. 22, 1955, reached a stage of 15.6 ft (4.75 m), from floodmarks (discharge, 3,620 ft<sup>3</sup>/s or 103 m<sup>3</sup>/s on basis of contracted-opening measurement of maximum flow).

REMARKS.--Records fair except those for period of no gage-height record, which are poor. No regulation; Watsonville Water Works can divert up to 8.0 ft<sup>3</sup>/s (0.23 m<sup>3</sup>/s) daily above station for municipal supply, domestic use, and irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	1.3	.36	2.5	15	4.2	40	12	.78	.32	.22	.14
2	.24	.59	.51	1.6	60	4.2	34	12	1.0	.32	.17	.12
3	.08	.24	16	1.4	57	3.7	32	9.7	.43	.45	.14	.10
4	.04	.15	14	2.5	50	3.2	31	8.4	.64	.48	.17	.08
5	.08	.12	5.8	2.5	24	4.0	47	7.6	.64	.49	.17	.08
6	.08	.08	4.5	3.4	16	8.8	46	6.1	.64	.49	.15	.08
7	.24	.51	2.7	4.8	13	65	45	5.4	.64	.49	.13	.10
8	.58	.89	1.3	10	25	164	70	5.4	.64	.49	.11	.13
9	.50	.78	.89	8.0	168	96	55	4.8	.60	.43	.11	.11
10	.35	.59	.51	3.2	119	60	47	3.7	.56	.41	.11	.09
11	.22	.51	.43	2.1	63	41	40	2.7	.56	.41	.13	.10
12	.22	.43	.36	2.3	47	28	35	2.1	.56	.41	.14	.10
13	.30	.36	.36	1.4	298	40	32	1.6	.56	.41	.15	.12
14	.31	.36	.43	1.0	126	41	28	1.4	.56	.41	.16	.13
15	.29	.30	.36	.68	78	34	27	1.4	.56	.41	.14	.10
16	.18	.30	.94	2.3	55	84	24	.78	.54	.41	.14	.09
17	.20	.30	.89	2.5	38	50	22	.68	.49	.39	.14	.07
18	.16	.36	.68	1.7	23	39	19	.43	.48	.35	.20	.06
19	.20	.24	.59	.43	22	33	17	.51	.48	.35	.18	.05
20	.28	.20	.51	.20	25	27	17	.51	.56	.34	.14	.05
21	.36	2.7	.43	.12	14	78	14	.36	.56	.30	.14	.05
22	.31	4.8	.36	.06	8.4	168	12	.20	.56	.30	.11	.05
23	.29	1.7	.30	.02	8.8	100	12	.24	.49	.28	.09	.04
24	.24	.78	.24	.02	9.7	83	16	.15	.48	.26	.07	.04
25	.24	.59	.20	.03	8.0	123	24	.51	.48	.29	.07	.03
26	.24	.51	.15	.04	6.8	87	14	3.7	.35	.25	.11	.03
27	.59	.51	3.0	.08	5.8	72	12	4.8	.41	.29	.10	.03
28	4.4	.51	19	.08	5.1	60	11	4.2	.41	.32	.09	.03
29	2.1	.43	8.4	.08	---	54	9.3	.89	.41	.35	.09	.03
30	1.0	.43	6.5	.03	---	50	9.3	.89	.41	.33	.07	.06
31	1.4	---	4.8	3.0	---	45	---	.78	---	.26	.09	---
TOTAL	15.76	21.57	95.50	58.07	1388.6	1750.1	841.6	103.93	16.48	11.49	4.03	2.29
MEAN	.51	.72	3.08	1.87	49.6	56.5	28.1	3.35	.55	.37	.13	.076
MAX	4.4	4.8	19	10	298	168	70	12	1.0	.49	.22	.14
MIN	.04	.08	.15	.02	5.1	3.2	9.3	.15	.35	.25	.07	.03
AC-FT	31	43	189	115	2750	3470	1670	206	33	23	8.0	4.5
CAL YR 1974 TOTAL	8939.32			MEAN 24.5	MAX 841	MIN .04	AC-FT 17730					
WTR YR 1975 TOTAL	4309.42			MEAN 11.8	MAX 298	MIN .02	AC-FT 8550					

Peak discharge (base, 600 ft<sup>3</sup>/s).--No peak above base.

NOTE.--No gage-height record June 4 to Sept. 30.

## 11159690 APTOS CREEK NEAR APTOS, CALIF.

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

DRAINAGE AREA.--10.2 mi<sup>2</sup> (26.4 km<sup>2</sup>).

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

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

EXTREMES.--Current year: Maximum discharge, 425 ft<sup>3</sup>/s (12.0 m<sup>3</sup>/s) Feb. 13 (gage height, 3.98 ft or 1.213 m); minimum daily, 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) Sept. 27-30.  
Period of record: Maximum discharge, 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s) Jan. 16, 1973 (gage height, 5.65 ft or 1.722 m), from rating curve extended above 340 ft<sup>3</sup>/s (9.63 m<sup>3</sup>/s); minimum daily, 0.36 ft<sup>3</sup>/s (0.010 m<sup>3</sup>/s) July 30 to Aug. 2, 1972.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.7	2.2	3.0	5.5	5.9	14	6.1	3.0	2.6	2.5	1.9
2	1.9	2.5	2.8	3.0	15	5.9	13	5.9	3.0	2.4	2.4	1.8
3	1.9	2.5	11	2.8	10	5.6	12	5.6	2.8	2.4	2.4	1.8
4	1.9	2.4	6.3	2.8	16	5.4	13	5.4	2.8	2.4	2.4	1.8
5	1.9	2.4	3.9	2.7	8.6	5.6	15	5.4	2.8	2.4	2.4	1.8
6	1.9	2.4	3.2	3.0	6.1	6.1	13	5.4	2.8	2.5	2.4	1.8
7	1.9	2.4	3.0	3.1	5.4	32	18	5.4	2.8	2.5	2.4	1.8
8	1.9	2.4	2.8	3.8	11	117	20	5.4	2.7	2.5	2.4	1.8
9	1.9	2.4	2.7	3.4	87	39	16	5.1	2.7	2.4	2.2	1.8
10	1.9	2.4	2.5	3.2	37	26	13	4.4	2.7	2.4	2.2	1.8
11	1.9	2.2	2.5	3.0	23	20	12	4.2	2.7	2.4	2.2	1.8
12	1.9	2.2	2.5	3.0	16	16	11	4.2	2.7	2.4	2.2	1.8
13	1.9	2.2	2.5	2.8	198	22	10	4.2	2.8	2.4	2.2	1.8
14	1.9	2.1	2.4	2.8	46	24	10	4.0	2.8	2.4	2.2	1.8
15	1.9	2.1	2.6	2.7	24	19	9.7	4.0	2.8	2.5	2.1	1.8
16	1.9	2.1	2.8	2.7	18	26	9.3	3.8	2.8	2.5	2.1	1.8
17	1.8	2.1	2.8	2.7	14	21	8.9	3.6	2.8	2.5	2.1	1.8
18	1.8	2.1	2.8	2.7	12	18	8.3	3.6	2.8	2.5	2.5	1.8
19	1.8	2.1	2.8	2.5	11	16	8.3	3.6	2.8	2.5	2.8	1.8
20	1.8	2.1	2.8	2.5	10	15	7.9	3.6	2.8	2.5	2.5	1.7
21	1.8	5.1	2.8	2.5	8.9	39	7.6	3.4	2.8	2.5	2.4	1.6
22	1.8	3.8	2.8	2.4	8.3	83	7.3	3.4	2.8	2.5	2.4	1.6
23	1.8	2.8	2.8	2.4	7.6	36	7.0	3.4	2.8	2.5	2.2	1.6
24	1.8	2.7	2.8	2.4	7.6	28	6.4	3.4	2.8	2.5	2.2	1.6
25	1.8	2.5	2.8	2.4	7.0	48	8.3	3.4	2.8	2.4	2.1	1.6
26	1.8	2.5	2.8	2.4	6.7	31	7.3	3.2	2.8	2.4	2.1	1.5
27	1.8	2.5	9.8	2.4	6.4	24	7.0	3.0	2.8	2.4	2.1	1.4
28	5.6	2.5	12	2.4	6.1	21	6.4	3.0	2.7	2.4	2.1	1.4
29	2.8	2.4	5.1	2.4	---	18	6.4	3.0	2.7	2.4	2.1	1.4
30	2.5	2.4	3.8	2.4	---	17	6.1	2.8	2.7	2.4	2.0	1.4
31	2.7	---	3.0	2.7	---	15	---	2.8	---	2.4	2.0	---
TOTAL	63.8	75.0	117.4	85.0	632.2	805.5	312.2	127.7	83.6	75.9	70.3	51.1
MEAN	2.06	2.50	3.79	2.74	22.6	26.0	10.4	4.12	2.79	2.45	2.27	1.70
MAX	5.6	5.1	12	3.8	198	117	20	6.1	3.0	2.6	2.8	1.9
MIN	1.8	2.1	2.2	2.4	5.4	5.4	6.1	2.8	2.7	2.4	2.0	1.4
AC=FT	127	149	233	169	1250	1600	619	253	166	151	139	101

CAL YR 1974 TOTAL 4275.5 MEAN 11.7 MAX 210 MIN 1.8 AC=FT 8480  
WTR YR 1975 TOTAL 2499.7 MEAN 6.85 MAX 198 MIN 1.4 AC=FT 4960

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-9	0715	3.18	230	3-8	0830	2.85	267
2-13	0730	3.98	425	3-21	2245	2.71	230

## SOQUEL CREEK BASIN

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

DRAINAGE AREA.--40.2 mi<sup>2</sup> (104.1 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 21.38 ft (6.517 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 44.3 ft<sup>3</sup>/s (1.255 m<sup>3</sup>/s), 32,100 acre-ft/yr (39.6 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 1,840 ft<sup>3</sup>/s (52.1 m<sup>3</sup>/s) Mar. 21 (gage height, 7.82 ft or 2.384 m); minimum daily, 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) Sept. 25.

Period of record: Maximum discharge, 15,800 ft<sup>3</sup>/s (447 m<sup>3</sup>/s) Dec. 23, 1955 (gage height, 22.33 ft or 6.806 m), from rating curve extended above 2,900 ft<sup>3</sup>/s (82.1 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.10 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) Aug. 12, 19, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.0	7.3	7.3	13	80	27	65	30	12	7.7	5.3	3.1
2	5.0	6.6	17	12	194	30	59	29	12	8.0	4.7	3.0
3	5.0	6.3	93	11	76	26	58	28	12	7.7	4.6	3.0
4	5.1	6.2	68	10	175	24	66	28	12	8.5	4.6	3.0
5	4.9	6.1	23	10	67	25	134	27	12	10	4.6	3.2
6	5.1	6.1	13	12	43	31	103	26	12	10	4.9	3.2
7	4.9	6.8	11	13	37	381	93	25	12	9.1	4.2	3.4
8	5.0	7.6	10	20	104	377	118	24	12	8.7	4.3	3.3
9	4.8	6.9	9.6	18	546	180	84	23	12	8.7	4.4	4.1
10	4.9	6.5	8.7	12	296	134	71	22	11	8.7	4.6	4.7
11	4.8	6.7	8.3	11	121	94	63	21	11	9.1	4.8	4.5
12	4.6	6.1	8.3	10	70	67	58	20	10	8.7	5.3	4.4
13	4.4	6.2	7.7	10	873	147	53	20	10	9.2	6.0	3.8
14	4.4	6.2	8.3	9.6	307	134	53	19	11	9.5	5.8	4.0
15	4.3	6.2	8.3	9.1	184	96	53	18	10	10	5.4	3.7
16	4.3	6.3	7.7	8.7	134	189	50	18	10	13	6.1	2.9
17	4.3	6.5	7.3	8.3	102	112	46	17	9.9	12	6.2	3.0
18	4.3	6.6	7.3	7.7	80	89	43	17	9.6	12	8.3	3.1
19	4.3	6.6	7.3	7.7	68	75	41	17	11	11	9.7	2.5
20	4.6	6.6	7.3	7.3	66	65	40	17	12	10	6.4	2.7
21	4.8	34	6.9	7.3	51	314	38	17	11	9.8	5.2	2.9
22	4.8	21	6.9	6.9	44	446	36	16	11	9.2	4.7	2.9
23	4.9	11	6.9	6.9	39	223	35	16	10	8.5	4.0	2.7
24	4.9	9.6	6.9	6.9	37	167	44	15	10	7.4	3.6	2.2
25	4.9	8.7	6.9	6.6	34	270	54	15	10	7.2	3.5	1.8
26	5.1	8.3	6.9	6.6	31	166	41	14	9.5	6.7	3.5	2.0
27	5.5	7.7	102	6.6	29	126	38	14	8.9	6.0	3.5	2.1
28	22	7.7	130	6.2	28	104	35	13	8.6	5.6	3.5	2.1
29	11	7.3	38	6.2	---	89	32	12	8.1	6.0	3.5	2.6
30	7.4	6.9	25	6.6	---	80	31	12	8.0	5.3	3.4	2.8
31	8.2	---	18	8.7	---	73	---	12	---	5.8	3.2	---
TOTAL	177.5	252.6	692.8	295.9	3916	4361	1735	602	318.6	269.1	151.8	92.7
MEAN	5.73	8.42	22.3	9.55	140	141	57.8	19.4	10.6	8.68	4.90	3.09
MAX	22	34	130	20	873	446	134	30	12	13	9.7	4.7
MIN	4.3	6.1	6.9	6.2	28	24	31	12	8.0	5.3	3.2	1.8
AC-FT	352	501	1370	587	7770	8650	3440	1190	632	534	301	184
CAL YR 1974 TOTAL	19500.8			MEAN 53.4	MAX 1250	MIN 4.3	AC-FT 38680					
WTR YR 1975 TOTAL	12865.0			MEAN 35.2	MAX 873	MIN 1.8	AC-FT 25920					

Date	Time	Peak discharge (base, 1,000 ft <sup>3</sup> /s)	Date	Time	G.H.	Discharge
2-9	0815	6.47 1,070	3-21	2215	7.82	1,840
2-13	1100	7.41 1,620				



## 11160000 SOQUEL CREEK AT SOQUEL, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1965, water year 1966 (partial-record station).

Water temperatures: January 1966 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 24.0°C Aug. 2; minimum, 2.0°C Jan. 30.

Period of record:

Water temperatures: Maximum (1967-69, 1970 to current year), 30.5°C Aug. 29, 1968; minimum (1968-73, 1974 to current year), 2.0°C Jan. 30, 1975.

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	18.0	14.0	14.0	11.0	10.5	7.5	7.0	4.0	8.0	6.0	11.0	9.5
2	17.5	15.5	13.0	9.0	11.0	9.0	7.0	3.5	9.0	7.5	--	--
3	17.0	15.0	13.0	9.0	12.0	10.5	7.0	4.0	9.5	7.5	--	--
4	18.0	15.0	13.0	9.5	12.0	10.0	8.5	5.5	9.0	8.5	--	--
5	18.0	14.5	13.0	9.5	11.5	9.0	8.0	5.5	9.5	8.0	--	--
6	17.5	13.0	13.5	9.5	11.5	9.0	10.0	8.0	9.5	8.5	--	11.5
7	16.0	14.5	12.0	10.0	11.5	9.0	9.5	7.5	10.5	9.5	--	--
8	17.5	14.5	13.0	9.5	11.0	8.5	10.0	8.0	--	--	--	--
9	18.0	14.0	12.0	9.0	10.5	8.5	8.0	6.0	--	--	--	--
10	17.5	13.5	13.0	9.5	10.0	7.5	10.0	7.0	--	--	--	--
11	17.5	13.0	13.5	10.0	10.5	8.0	9.5	6.5	--	--	--	--
12	18.0	12.5	13.5	10.5	11.5	9.5	9.0	5.5	--	--	--	--
13	17.5	12.5	13.5	10.5	11.0	9.0	9.0	5.0	--	--	--	--
14	17.5	12.5	13.5	11.5	10.5	8.0	9.0	5.0	--	--	10.0	9.0
15	18.5	12.5	13.5	11.5	11.5	8.5	8.5	5.5	--	--	9.5	8.5
16	17.5	12.5	12.5	12.0	10.5	8.0	9.0	5.5	--	--	10.0	8.0
17	18.5	13.5	13.5	11.5	10.5	7.0	9.0	5.5	--	--	10.5	7.5
18	16.5	13.0	14.0	10.5	9.0	6.5	9.5	5.5	--	--	11.5	8.5
19	17.0	14.5	12.5	9.5	9.0	6.5	10.0	5.5	--	--	11.0	9.0
20	17.0	12.5	13.0	10.5	10.0	7.0	10.0	6.0	--	--	10.5	8.0
21	16.5	12.5	13.0	11.0	10.0	7.0	10.0	6.0	--	--	9.0	7.0
22	17.0	13.5	11.5	9.0	8.5	6.5	10.5	6.0	--	--	10.0	8.5
23	16.5	13.5	11.0	8.0	8.0	5.5	10.0	6.0	--	--	11.0	8.0
24	16.5	13.0	11.0	8.0	7.0	4.0	10.0	6.0	--	--	11.5	10.0
25	17.0	13.0	11.5	9.0	7.0	4.0	10.5	6.0	--	--	11.5	9.5
26	17.0	13.0	11.0	8.0	7.0	4.0	11.0	5.5	--	--	11.0	8.5
27	15.5	13.0	10.5	7.5	9.0	6.5	8.0	4.0	--	--	11.0	7.5
28	15.0	12.5	10.0	7.0	9.5	7.0	7.5	2.5	--	11.5	10.5	7.5
29	14.5	11.5	10.0	7.0	8.0	5.5	7.5	3.0	--	--	11.0	7.0
30	13.0	11.5	11.0	8.0	7.0	5.0	6.5	2.0	--	--	12.0	7.5
31	13.5	12.0	--	--	7.5	4.5	6.0	3.0	--	--	13.0	9.5
MONTH	18.5	11.5	14.0	7.0	12.0	4.0	11.0	2.0	--	--	--	--
DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	8.0	14.0	12.0	20.0	15.0	21.0	14.0	23.0	15.0	20.5	14.5
2	12.0	7.5	16.5	12.0	20.0	15.5	21.0	14.0	24.0	16.0	21.5	14.0
3	11.5	8.5	14.0	11.0	21.0	15.0	21.0	14.5	23.0	16.0	21.0	14.5
4	10.5	9.0	14.5	9.5	16.5	15.0	18.5	15.5	22.0	16.5	--	--
5	9.5	8.0	15.0	9.0	18.0	14.5	21.5	14.0	21.5	16.5	--	--
6	9.5	7.5	15.5	10.0	16.5	15.0	22.5	15.5	22.0	16.0	21.0	16.0
7	9.0	7.5	16.5	11.0	18.0	14.5	22.5	16.5	23.0	14.5	19.0	16.0
8	10.0	8.0	16.0	11.5	20.0	14.5	22.5	15.5	23.5	15.5	16.0	15.0
9	12.0	7.5	17.0	12.0	20.0	14.5	22.0	16.0	23.0	15.5	19.0	15.0
10	13.0	9.5	17.5	12.5	18.5	15.5	22.5	16.0	19.5	16.0	19.5	15.5
11	13.0	9.0	18.5	13.0	20.0	15.5	21.0	16.0	19.0	15.5	18.0	16.0
12	13.5	10.0	19.0	13.0	21.0	15.0	21.0	15.5	18.0	15.5	18.5	15.5
13	11.5	10.5	16.0	13.5	19.0	15.5	18.0	15.5	17.5	15.5	18.5	15.5
14	12.0	9.5	15.0	13.0	17.5	15.5	17.5	15.0	20.0	15.0	18.0	14.5
15	12.5	8.5	17.0	12.5	17.5	15.5	17.0	14.5	18.5	15.0	19.5	14.0
16	12.5	8.5	17.0	11.5	20.5	15.5	21.5	15.5	20.0	15.0	19.5	14.0
17	12.5	7.5	18.0	13.0	20.5	14.0	19.5	16.0	21.0	15.0	19.0	15.5
18	14.0	9.0	16.5	14.0	19.5	13.5	22.0	16.0	17.5	16.5	19.0	15.5
19	14.0	10.0	17.5	13.0	16.0	14.0	21.5	16.0	19.5	16.0	20.0	15.0
20	15.0	10.0	17.5	12.0	19.5	14.0	22.0	15.5	21.5	15.5	19.5	14.0
21	15.5	11.5	18.0	12.0	20.5	15.0	22.5	16.5	18.0	16.0	19.5	15.0
22	13.5	11.0	18.0	14.0	19.5	15.0	22.5	15.5	21.5	16.0	19.5	15.0
23	14.0	10.5	19.0	14.0	20.0	14.5	22.5	16.5	22.0	15.5	20.0	14.0
24	12.5	11.0	20.0	14.0	20.5	15.0	22.5	16.0	22.0	16.0	21.5	15.0
25	14.0	10.0	19.5	14.0	20.0	13.0	23.0	15.5	21.0	17.0	21.0	15.0
26	14.0	9.0	18.5	14.5	21.0	14.0	23.0	16.5	18.0	16.0	19.5	14.5
27	14.5	9.5	20.0	14.5	21.0	14.0	22.5	16.5	19.0	16.0	18.0	14.5
28	15.5	10.5	21.0	14.5	21.0	14.5	22.0	16.5	22.0	15.0	17.0	13.5
29	15.5	12.5	21.0	16.0	21.5	14.5	21.5	17.0	21.5	15.0	17.5	14.0
30	16.0	12.0	19.5	15.5	21.0	14.0	21.5	15.5	21.5	15.0	16.5	14.0
31	--	--	20.0	15.5	--	--	22.0	14.5	21.0	14.5	--	--
MONTH	16.0	7.5	21.0	9.0	21.5	13.0	23.0	14.0	24.0	14.5	21.5	13.5

## SAN LORENZO RIVER BASIN

11160020 SAN LORENZO RIVER NEAR BOULDER CREEK, CALIF.

LOCATION.--Lat 37°12'24", long 122°08'38", in NE¼SW¼ sec.25, T.8 S., R.3 W., Santa Cruz County, on right bank 22 ft (7 m) upstream from culvert on State Highway 9, 100 ft (30 m) upstream from small right-bank tributary, and 5.8 mi (9.3 km) north of town of Boulder Creek.

DRAINAGE AREA.--6.17 mi<sup>2</sup> (15.98 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Concrete control since Sept. 1, 1971. Altitude of gage is 710 ft (216 m), from topographic map.

AVERAGE DISCHARGE.--7 years, 7.75 ft<sup>3</sup>/s (0.220 m<sup>3</sup>/s), 5,610 acre-ft/yr (6.92 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 278 ft<sup>3</sup>/s (7.87 m<sup>3</sup>/s) Mar. 21 (gage height, 5.59 ft or 1.704 m); minimum daily, 0.57 ft<sup>3</sup>/s (0.016 m<sup>3</sup>/s) Dec. 23-26.  
Period of record: Maximum discharge, 672 ft<sup>3</sup>/s (19.0 m<sup>3</sup>/s) Jan. 16, 1973 (gage height, 9.10 ft or 2.774 m), from rating curve extended above 230 ft<sup>3</sup>/s (6.51 m<sup>3</sup>/s) on basis of computation of flow through culvert at gage height 8.48 ft (2.585 m); minimum daily, 0.18 ft<sup>3</sup>/s (0.005 m<sup>3</sup>/s) Sept. 1, 1972.

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

REVISIONS (WATER YEARS).--WRD Calif. 1970: 1969(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	1.5	.85	1.7	46	3.2	15	6.4	2.7	2.2	1.4	1.1
2	1.2	1.4	1.2	1.7	32	3.5	13	6.0	2.5	2.2	1.3	1.1
3	1.2	1.3	8.4	1.5	13	3.2	13	6.4	2.2	2.2	1.3	1.1
4	1.2	1.3	3.5	1.7	17	3.2	13	6.4	2.2	2.2	1.3	1.0
5	1.1	1.2	1.2	1.5	12	3.2	15	6.0	2.2	2.5	1.4	1.0
6	1.1	1.2	.96	3.8	9.4	3.8	13	5.5	2.2	2.5	1.3	1.0
7	1.1	1.3	.85	3.8	8.9	124	13	5.5	2.2	2.5	1.3	1.0
8	1.1	1.4	.85	4.8	9.9	74	13	5.5	2.2	2.2	1.3	1.1
9	1.1	1.3	.75	3.8	45	25	12	5.5	2.2	2.3	1.3	1.2
10	1.1	1.3	.75	3.2	38	16	12	5.5	2.2	2.2	1.3	1.1
11	1.1	1.2	.75	2.9	18	12	12	5.5	2.5	2.2	1.3	1.1
12	1.1	1.2	.75	2.5	12	9.4	12	5.1	2.5	2.2	1.3	1.1
13	.96	1.2	.66	2.5	52	11	11	5.1	2.2	2.1	1.4	1.1
14	.96	1.2	.66	2.2	27	13	11	4.8	2.2	2.0	1.4	1.1
15	.96	1.2	.66	2.2	15	13	11	4.8	2.2	2.2	1.4	1.1
16	.96	1.2	.66	2.2	12	18	11	4.8	2.2	2.2	1.4	1.1
17	.85	1.2	.66	2.0	8.9	13	9.9	4.4	2.5	2.1	1.4	1.0
18	.85	1.4	.66	2.0	6.9	12	9.4	4.8	2.5	2.0	1.8	1.0
19	.85	1.4	.66	2.0	6.4	12	8.9	4.8	2.5	2.0	1.6	1.0
20	.96	1.4	.66	2.0	6.9	10	8.4	4.8	2.5	2.0	1.3	.96
21	.96	4.8	.66	2.0	5.5	59	7.8	4.8	2.5	2.0	1.3	.93
22	.96	1.4	.66	2.0	4.8	69	7.8	4.8	2.2	1.8	1.3	.94
23	1.1	1.1	.57	2.0	4.4	32	7.8	4.8	2.5	1.7	1.2	.94
24	1.1	.96	.57	2.0	4.1	27	8.9	4.8	2.5	1.6	1.2	.89
25	1.1	.85	.57	2.0	3.8	45	8.9	4.4	2.2	1.6	1.2	.88
26	1.1	.85	.57	2.0	3.8	31	7.8	3.8	2.2	1.6	1.2	.87
27	1.1	.85	9.9	2.0	3.5	26	7.3	3.5	2.2	1.6	1.2	.89
28	2.9	.85	8.3	2.0	3.5	22	6.9	3.2	2.2	1.6	1.3	.93
29	2.1	.85	2.9	2.0	---	18	6.9	2.9	2.2	1.6	1.2	.94
30	1.5	.85	2.0	2.0	---	17	6.4	2.9	2.2	1.6	1.2	.94
31	1.6	---	1.9	5.5	---	16	---	2.9	---	1.4	1.2	---
TOTAL	36.27	39.16	54.69	75.5	429.7	744.5	313.1	150.4	69.5	62.1	41.0	30.41
MEAN	1.17	1.31	1.76	2.44	15.3	24.0	10.4	4.85	2.32	2.00	1.32	1.01
MAX	2.9	4.8	9.9	5.5	52	124	15	6.4	2.7	2.5	1.8	1.2
MIN	.85	.85	.57	1.5	3.5	3.2	6.4	2.9	2.2	1.4	1.2	.87
AC-FT	72	78	108	150	852	1480	621	298	138	123	81	60
CAL YR 1974	TOTAL	3270.82	MEAN 8.96	MAX 212	MIN .57	AC-FT 6490						
WTR YR 1975	TOTAL	2046.33	MEAN 5.61	MAX 124	MIN .57	AC-FT 4060						

Peak discharge (base, 70 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-1	1830	4.14	156	3-7	1115	5.45	266
2-9	2230	3.40	91	3-21	2030	5.59	278
2-13	0930	3.50	100	3-25	0345	3.41	92

11160020 SAN LORENZO RIVER NEAR BOULDER CREEK, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)
OCT. 22...	1015	.96	--	--	--	75	12	22	1.5	266	0	220
NOV. 19...	1030	1.4	--	--	--	78	11	21	1.1	262	0	220
DEC. 16...	1115	.66	22	30	20	73	13	23	1.3	256	--	210
JAN. 14...	1030	2.1	--	--	--	73	12	20	1.4	228	0	180
FEB. 25...	1010	3.8	--	--	--	57	9.8	18	1.3	188	0	150
APR. 08...	1000	13	21	150	0	58	10	17	1.6	181	0	140
MAY 20...	1030	4.8	22	40	5	72	12	19	1.4	227	0	180
JUNE 24...	0930	2.5	23	100	5500	74	12	22	1.3	242	0	200

DATE	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (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- PHATE (PO <sub>4</sub> ) (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. 22...	56	14	--	--	--	--	--	--	--	240	19
NOV. 19...	50	15	--	--	--	--	--	--	--	240	25
DEC. 16...	60	18	.3	.01	.43	.14	337	.46	.60	240	26
JAN. 14...	56	17	--	--	--	--	--	--	--	230	45
FEB. 25...	52	15	--	--	--	--	--	--	--	180	28
APR. 08...	62	13	.3	.09	.31	.10	273	.37	9.58	190	38
MAY 20...	61	14	.2	.00	.43	.14	314	.43	4.07	230	43
JUNE 24...	65	14	.3	.02	.40	.13	337	.46	2.27	230	36

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT. 22...	17	.6	514	8.5	10.5	3	--	--	1.3	56	210
NOV. 19...	16	.6	493	8.6	9.0	2	11.0	--	1.1	822	--
DEC. 16...	17	.7	500	8.3	9.0	2	11.0	.9	2.1	830	60
JAN. 14...	16	.6	470	8.6	7.0	2	11.6	--	.9	38	815
FEB. 25...	18	.6	417	8.0	8.0	4	11.4	--	3.0	812	85
APR. 08...	16	.5	424	8.0	7.0	6	11.8	1.2	2.9	823	88
MAY 20...	15	.5	486	8.1	9.5	1	10.8	--	2.9	811	87
JUNE 24...	17	.6	520	8.7	13.0	1	10.1	--	.8	83	43

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

## SAN LORENZO RIVER BASIN

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, on left bank at downstream side of bridge on Zayante Road in town of Zayante, 0.4 mi (0.6 km) upstream from Lompico Creek, 2.0 mi (3.2 km) east of Ben Lomond, and 3.2 mi (5.1 km) upstream from mouth.

DRAINAGE AREA.--11.1 mi<sup>2</sup> (28.7 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--18 years, 11.5 ft<sup>3</sup>/s (0.326 m<sup>3</sup>/s), 8,330 acre-ft/yr (10.3 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 1,700 ft<sup>3</sup>/s (48.1 m<sup>3</sup>/s) Mar. 7 (gage height, 5.75 ft or 1.753 m); minimum daily, 0.50 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) Sept. 25, 26.

Period of record: Maximum discharge, 3,700 ft<sup>3</sup>/s (105 m<sup>3</sup>/s) Apr. 2, 1958 (gage height, 7.70 ft or 2.347 m), from rating curve extended above 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times, caused by filling of pools upstream.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.84	2.3	1.5	3.7	19	8.6	19	8.6	4.2	1.5	.92	.70
2	.92	1.8	2.9	3.3	37	9.2	18	8.6	4.0	1.5	.70	.76
3	1.1	1.4	31	2.9	13	8.0	18	8.3	4.0	1.5	.70	.65
4	1.0	1.3	11	2.9	26	7.8	23	8.0	4.0	1.6	.71	.63
5	1.1	1.3	4.9	2.6	15	8.0	28	7.8	3.8	1.5	.71	.61
6	1.0	1.3	4.0	4.7	11	9.9	23	7.5	3.8	1.4	.68	.60
7	1.0	1.4	3.3	3.5	12	348	21	7.5	3.8	1.4	.61	.60
8	1.1	1.7	3.0	4.2	42	100	20	7.5	3.5	1.4	.58	.68
9	1.1	1.4	2.8	3.3	99	49	17	7.2	3.3	1.4	.57	.85
10	1.1	1.3	2.5	3.2	58	41	16	7.0	3.3	1.4	.59	.75
11	1.0	1.3	2.3	2.9	27	32	15	6.7	3.2	1.4	.68	.75
12	.84	1.2	2.3	2.6	22	26	15	6.7	3.2	1.4	.91	.72
13	.77	1.3	2.3	2.6	247	46	14	6.2	3.0	1.6	.92	.77
14	.77	1.3	2.2	2.5	48	37	13	6.2	3.2	1.5	.76	1.1
15	.77	1.2	2.2	2.3	28	36	13	6.2	3.0	1.6	.80	.79
16	.77	1.2	2.2	2.2	21	39	15	6.0	3.0	1.7	.78	.73
17	.84	1.3	2.1	2.1	17	30	12	5.7	2.8	1.5	.79	.69
18	.77	1.4	2.1	2.0	15	27	12	5.7	2.8	1.4	1.8	.68
19	.84	1.5	2.1	2.0	14	24	11	5.5	2.9	1.3	1.6	.66
20	1.1	1.5	2.0	1.8	13	22	11	5.3	2.8	1.2	1.1	.69
21	1.1	12	2.0	1.7	11	238	11	5.3	2.6	1.2	.92	.62
22	1.1	4.2	2.0	1.6	10	96	9.9	5.1	2.5	1.1	.88	.61
23	1.1	2.3	1.8	1.6	9.9	49	9.9	5.1	2.3	1.1	.81	.60
24	1.1	2.0	1.8	1.6	9.5	50	14	5.1	2.6	1.1	.76	.57
25	1.2	2.1	1.8	1.6	9.2	48	11	4.9	2.5	1.0	.73	.50
26	1.2	1.8	1.8	1.6	8.6	38	9.5	4.7	2.3	.84	.74	.50
27	1.8	1.7	71	1.5	8.9	32	9.2	4.5	2.1	.84	.82	.51
28	6.0	1.6	40	1.5	8.6	28	8.9	4.3	1.8	.92	.81	.58
29	3.2	1.6	8.3	1.5	---	24	8.6	4.2	1.5	.92	.79	.63
30	2.0	1.6	5.5	1.5	---	23	8.6	4.2	1.6	.92	.72	.65
31	2.9	---	4.3	3.6	---	21	---	4.2	---	1.1	.70	---
TOTAL	41.43	59.3	229.0	76.6	859.7	1555.5	434.6	189.8	89.4	40.24	25.59	20.18
MEAN	1.34	1.98	7.39	2.47	30.7	50.2	14.5	6.12	2.98	1.30	.83	.67
MAX	6.0	12	71	4.7	247	348	28	8.6	4.2	1.7	1.8	1.1
MIN	.77	1.2	1.5	1.5	8.6	7.8	8.6	4.2	1.5	.84	.57	.50
AC=FT	82	118	454	152	1710	3090	862	376	177	80	51	40
CAL YR 1974	TOTAL	4907.50	MEAN	13.4	MAX	393	MIN	.63	AC=FT	9730		
WTR YR 1975	TOTAL	3621.34	MEAN	9.92	MAX	348	MIN	.50	AC=FT	7180		

Peak discharge (base, 450 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-13	0600	3.99	506	3-21	1530	4.94	1,060
3-7	1100	5.75	1,700				

## SAN LORENZO RIVER BASIN

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11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.

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

DRAINAGE AREA.--106 mi<sup>2</sup> (275 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--39 years, 137 ft<sup>3</sup>/s (3.880 m<sup>3</sup>/s), 99,260 acre-ft/yr (122 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 5,040 ft<sup>3</sup>/s (143 m<sup>3</sup>/s) Mar. 21 (gage height, 13.05 ft or 3.978 m); minimum daily, 17 ft<sup>3</sup>/s (0.48 m<sup>3</sup>/s) Sept. 27.

Period of record: Maximum discharge, 30,400 ft<sup>3</sup>/s (861 m<sup>3</sup>/s) Dec. 23, 1955 (gage height, 22.55 ft or 6.873 m, site and datum then in use), from rating curve extended above 11,000 ft<sup>3</sup>/s (312 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum, 0.8 ft<sup>3</sup>/s (0.023 m<sup>3</sup>/s), regulated, June 25, 1939; minimum daily, 7.5 ft<sup>3</sup>/s (0.21 m<sup>3</sup>/s) July 1, 1939.

REMARKS.--Records good. Flow regulated by Loch Lomond Reservoir since 1961, capacity, 8,400 acre-ft (10.4 hm<sup>3</sup>). Many small diversions above station for domestic supply.

REVISIONS (WATER YEARS).--WSP 1315-B: 1938(M). WSP 1715: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	36	35	77	318	93	210	88	48	31	22	21
2	22	32	58	70	516	97	192	86	49	31	22	21
3	28	31	338	66	166	91	182	85	49	31	22	20
4	26	30	188	66	301	86	186	84	48	32	22	20
5	25	29	74	66	181	87	287	81	47	32	22	19
6	26	29	61	77	132	109	232	79	47	31	22	19
7	25	31	56	89	140	1680	206	75	45	31	21	19
8	25	34	53	94	241	960	196	74	45	29	20	21
9	26	31	51	88	1020	509	179	74	44	29	20	21
10	26	31	50	80	776	411	165	73	44	28	21	22
11	24	30	48	76	357	321	154	72	44	28	21	21
12	24	29	48	72	267	260	145	70	42	27	21	20
13	24	28	47	71	1660	373	137	68	42	28	22	20
14	24	28	47	69	606	371	132	67	42	28	23	21
15	22	28	47	67	357	326	129	67	42	30	23	20
16	22	28	47	66	265	519	128	63	42	31	23	20
17	22	29	46	64	212	340	125	63	41	30	24	20
18	22	29	46	64	179	292	116	63	41	29	29	20
19	23	29	45	64	166	258	112	62	41	28	29	19
20	26	28	45	63	166	228	109	61	41	28	25	19
21	24	138	44	63	140	1040	104	57	39	28	24	19
22	22	72	44	62	129	1490	99	58	40	28	23	19
23	23	46	44	62	121	598	97	58	39	26	22	19
24	23	40	34	61	114	454	131	57	39	26	21	19
25	23	38	39	61	109	737	128	50	39	25	21	18
26	23	37	41	61	103	486	107	51	38	23	21	18
27	24	36	273	60	99	388	101	53	37	23	22	17
28	72	35	400	59	96	328	96	52	33	23	21	21
29	50	35	112	59	---	285	92	49	35	23	21	19
30	34	35	88	59	---	258	89	50	32	23	21	19
31	39	---	80	82	---	234	---	50	---	23	21	---
TOTAL	841	1112	2629	2138	8937	13709	4366	2040	1255	863	692	591
MEAN	27.1	37.1	84.8	69.0	319	442	146	65.8	41.8	27.8	22.3	19.7
MAX	72	138	400	94	1660	1680	287	88	49	32	29	22
MIN	22	28	34	59	96	86	89	49	32	23	20	17
AC-FT	1670	2210	5210	4240	17730	27190	8660	4050	2490	1710	1370	1170
CAL YR 1974 TOTAL	59986		MEAN 164	MAX 2890	MIN 21	AC-FT 119000						
WTR YR 1975 TOTAL	39173		MEAN 107	MAX 1680	MIN 17	AC-FT 77700						

Peak discharge (base, 1,400 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-13	0915	9.35	2,710	3-21	2215	13.05	5,040
3-7	1230	12.02	4,360				

## SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: January to December 1906, water years 1952-53 (partial-record station), October 1953 to September 1966, water years 1967, 1969-70, 1973 (partial-record station), November 1973 to current year.

Water temperatures: May 1966 to current year.

Sediment records: October 1972 to current year.

## EXTREMES.--Current year:

Water temperatures: Maximum, 20.5°C July 26; minimum, 3.5°C Jan. 30.

Sediment concentrations: Maximum daily, 2,230 mg/l Mar. 7; minimum daily, 2 mg/l on many days.

Sediment discharge: Maximum daily, 16,800 tons (15,200 tonnes) Mar. 7; minimum daily, 0.10 ton

(0.09 tonne) Sept. 6, 7, 19.

Period of record;

Water temperatures: Maximum (1966-67, 1968-70, 1971 to current year), 25.5°C July 14, 1972; minimum

(1966-70, 1971 to current year), 1.5°C Dec. 15, 1967.

Sediment concentrations: Maximum daily, 6,170 mg/l Jan. 16, 1973; minimum daily, 1 mg/l on several days in 1972-74.

Sediment discharge: Maximum daily, 125,000 tons (113,000 tonnes) Jan. 16, 1973; minimum daily, 0.06 ton (0.05 tonne) Sept. 15, 16, 1974.

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (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)	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.											
25...	1130	22	26	50	0	38	6.1	21	2.1	136	--
NOV.											
22...	0945	72	17	90	--	31	6.3	18	2.6	95	--
DEC.											
20...	0945	44	25	50	30	43	7.9	22	1.9	140	--
JAN.											
17...	0930	64	24	50	10	43	9.0	22	2.1	136	--
FEB.											
28...	1140	96	22	70	40	38	8.6	19	1.9	121	0
APR.											
11...	1045	153	23	40	30	39	8.7	17	1.9	115	0
MAY											
23...	1100	58	22	80	20	45	8.8	20	2.0	135	0
JUNE											
27...	1110	38	24	70	30	47	8.6	21	2.0	144	0

DATE	ALKA- LINIT AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
OCT.										
25...	110	31	21	.2	.19	.16	.05	.14	.19	.38
NOV.										
22...	75	41	19	.2	.19	.18	.07	.71	.78	.97
DEC.										
20...	110	43	23	.2	.25	.24	.06	.62	.68	.93
JAN.										
17...	110	44	23	.2	.40	.28	.00	.39	.39	.79
FEB.										
28...	82	48	17	.2	.31	.26	.01	--	--	--
APR.										
11...	93	53	14	.3	.14	.13	.01	.12	.13	.27
MAY										
23...	100	48	18	.2	.14	.17	.02	.18	.20	.34
JUNE										
27...	110	45	19	.2	.16	.16	.04	.08	.12	.28

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC=FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT. 25...	.22	.55	.18	214	.29	12.7	120	8	27	.8
NOV. 22...	.32	.37	.12	183	.25	35.6	100	25	27	.8
DEC. 20...	.16	.37	.12	237	.32	28.2	140	25	25	.8
JAN. 17...	.10	.28	.09	236	.32	40.8	140	33	25	.8
FEB. 28...	.16	.25	.08	216	.29	56.0	130	31	24	.7
APR. 11...	.09	.21	.07	215	.29	88.8	130	39	21	.6
MAY 23...	.11	.40	.13	232	.32	36.3	150	38	22	.7
JUNE 27...	.17	.37	.12	239	.33	24.5	150	35	23	.7

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5' DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	DIS- SOLVED BORON (B) (UG/L)
OCT. 25...	342	8.2	12.5	2	10.1	--	1.4	50	230	60
NOV. 22...	289	7.8	10.0	130	10.1	--	2.4	6200	--	70
DEC. 20...	359	7.6	6.5	5	12.3	1.8	5.6	8180	52	70
JAN. 17...	351	7.8	6.5	5	11.9	--	3.4	200	64	60
FEB. 28...	342	7.5	11.0	5	10.8	--	6.1	110	825	60
APR. 11...	310	8.3	10.0	5	11.2	1.1	.9	72	823	60
MAY 23...	356	8.0	14.0	2	10.5	--	2.2	130	60	70
JUNE 27...	369	7.8	16.0	2	9.4	--	3.7	90	140	70

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

## SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	16.5	-- 14.0	12.5	-- 10.5	-- --	--	-- --	--	8.0	-- 5.5	10.5	-- 10.0
2	17.0	-- 15.5	11.0	-- 9.0	-- 9.0	--	-- 5.5	--	9.0	-- 8.0	11.5	-- 10.0
3	17.0	-- 15.5	14.0	-- 8.5	-- 10.0	--	-- --	--	8.5	-- 8.0	11.0	-- 9.0
4	16.5	-- 14.5	14.5	-- 8.5	-- 11.0	--	-- 6.5	--	8.5	-- 8.5	10.5	-- 9.0
5	16.5	-- 14.0	15.0	-- 8.5	-- 10.0	--	-- --	--	9.0	-- 8.0	10.5	-- 9.5
6	15.5	-- 13.0	15.0	-- 8.5	-- 10.0	--	-- --	--	9.5	-- 8.5	11.0	-- 9.5
7	15.5	-- 14.5	-- 11.0	--	-- --	--	-- 9.0	--	10.0	-- 9.0	11.0	-- 10.0
8	16.0	-- 14.0	-- 11.0	--	-- 9.0	--	9.5	-- 8.5	11.0	-- 10.0	10.5	-- 10.0
9	16.0	-- 13.5	-- --	--	-- --	--	8.5	-- 7.0	11.0	-- 10.0	10.0	-- 9.0
10	16.0	-- 13.0	-- --	--	-- 8.0	--	8.5	-- 7.5	11.0	-- 9.5	9.5	-- 9.0
11	15.5	-- 12.0	-- 12.0	--	-- --	--	7.5	-- 6.5	10.0	-- 9.0	10.5	-- 8.5
12	15.5	-- 12.0	-- --	--	-- 11.0	--	7.0	-- 6.0	10.0	-- 8.5	11.0	-- 9.0
13	19.0	-- 12.0	-- 12.0	--	-- --	--	7.0	-- 5.5	11.0	-- 10.0	10.0	-- 8.5
14	19.5	-- 12.0	-- --	--	-- 9.5	--	7.0	-- 5.5	10.0	-- 8.5	9.5	-- 8.0
15	15.5	-- 12.0	-- 12.0	--	-- --	--	7.0	-- 5.5	8.5	-- 7.5	9.0	-- 8.5
16	15.5	-- 12.5	-- --	--	-- 10.0	--	7.5	-- 6.5	8.5	-- 7.5	9.5	-- 8.0
17	16.0	-- 12.5	-- --	--	-- --	--	7.5	-- 6.0	8.0	-- 6.5	9.0	-- 7.5
18	15.0	-- 12.5	-- 12.0	--	-- 8.5	--	8.0	-- 6.0	8.5	-- 6.5	10.5	-- 9.0
19	15.5	-- 13.5	-- --	--	-- --	--	7.5	-- 6.0	9.5	-- 8.5	10.5	-- 9.5
20	16.0	-- 13.5	-- 11.5	--	-- 6.5	--	8.0	-- 6.0	9.5	-- 8.5	9.5	-- 8.5
21	14.0	-- 11.5	-- 12.0	--	-- --	--	8.0	-- 6.0	8.5	-- 6.5	8.5	-- 7.5
22	14.5	-- 12.5	-- 10.5	--	-- 7.0	--	8.5	-- 6.5	8.0	-- 6.0	9.5	-- 8.5
23	14.0	-- 12.5	-- 9.0	--	-- --	--	8.0	-- 6.5	8.0	-- 5.5	10.0	-- 8.5
24	14.5	-- 12.5	-- 9.0	--	-- 6.0	--	8.5	-- 6.0	8.5	-- 6.0	10.5	-- 9.5
25	17.5	-- 12.0	-- 10.0	--	-- --	--	8.5	-- 6.5	9.5	-- 7.0	10.5	-- 9.5
26	17.5	-- 12.0	-- --	--	-- --	--	9.0	-- 7.5	9.5	-- 7.0	9.5	-- 8.0
27	13.5	-- 12.0	-- 9.0	--	-- 7.5	--	7.5	-- 5.5	10.5	-- 8.0	9.5	-- 8.0
28	14.0	-- 12.5	-- --	--	-- 8.0	--	6.0	-- 4.0	11.0	-- 9.0	9.5	-- 7.5
29	12.5	-- 11.5	-- 8.5	--	-- 6.5	--	6.5	-- 4.5	-- --	--	9.5	-- 7.0
30	12.0	-- 11.0	-- --	--	-- 6.0	--	5.5	-- 3.5	-- --	--	10.5	-- 8.0
31	12.0	-- 11.5	-- --	--	-- 6.5	--	6.0	-- 4.0	-- --	--	11.5	-- 9.5
MONTH	19.5	-- 11.0	-- --	--	-- --	--	-- --	--	11.0	-- 5.5	11.5	-- 7.0
DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	10.5	-- 8.0	13.0	-- 11.0	17.5	-- 14.5	17.5	-- 14.0	19.0	-- 14.5	16.0	-- 12.5
2	10.5	-- 7.5	13.5	-- 11.0	17.5	-- 14.5	17.5	-- 14.0	19.5	-- 15.0	16.5	-- 13.0
3	10.0	-- 8.5	12.5	-- 11.0	18.0	-- 14.5	17.5	-- 14.5	20.0	-- 16.0	16.5	-- 13.0
4	9.5	-- 8.5	12.0	-- 9.5	16.5	-- 14.5	16.0	-- 15.0	19.0	-- 16.0	17.0	-- 13.5
5	9.0	-- 7.5	12.0	-- 9.0	18.0	-- 14.5	17.5	-- 13.5	19.0	-- 15.5	17.5	-- 13.5
6	8.0	-- 7.0	13.0	-- 9.5	16.5	-- 15.0	18.5	-- 15.0	18.0	-- 15.0	17.5	-- 14.0
7	9.0	-- 7.0	13.0	-- 10.0	17.0	-- 14.0	19.5	-- 16.0	18.0	-- 13.0	17.0	-- 14.0
8	9.5	-- 8.0	13.5	-- 10.5	17.5	-- 14.0	19.5	-- 16.0	18.5	-- 14.0	15.0	-- 14.0
9	10.0	-- 7.5	14.0	-- 11.0	18.0	-- 14.5	19.5	-- 15.5	19.0	-- 15.0	15.5	-- 13.5
10	10.5	-- 8.0	15.0	-- 12.0	18.0	-- 15.0	19.5	-- 16.0	18.0	-- 15.0	15.5	-- 14.0
11	11.0	-- 8.5	15.5	-- 12.5	18.0	-- 15.0	19.5	-- 16.0	17.0	-- 14.5	16.5	-- 14.0
12	12.0	-- 9.0	16.0	-- 12.5	18.0	-- 15.0	19.0	-- 16.0	16.5	-- 14.5	16.5	-- 14.0
13	11.5	-- 10.0	15.5	-- 13.0	18.5	-- 15.5	17.5	-- 16.0	16.5	-- 14.0	16.5	-- 14.0
14	11.0	-- 10.0	14.5	-- 13.0	17.5	-- 15.5	16.0	-- 15.0	16.5	-- 14.0	16.0	-- 14.5
15	10.5	-- 8.5	14.0	-- 12.0	17.0	-- 15.0	15.5	-- 14.5	16.5	-- 14.0	16.0	-- 12.5
16	9.5	-- 8.0	15.0	-- 11.0	18.0	-- 15.0	18.5	-- 15.0	17.0	-- 14.0	16.0	-- 12.5
17	10.5	-- 7.0	16.0	-- 12.5	17.0	-- 14.5	18.0	-- 16.0	17.5	-- 14.0	16.0	-- 13.5
18	11.0	-- 8.5	16.0	-- 13.0	16.5	-- 13.5	19.0	-- 16.0	16.5	-- 15.0	16.5	-- 14.0
19	12.0	-- 9.0	16.0	-- 13.5	15.5	-- 14.0	19.5	-- 16.0	17.5	-- 14.5	16.0	-- 13.5
20	12.5	-- 9.5	14.5	-- 11.5	16.5	-- 13.5	19.5	-- 16.0	18.0	-- 14.5	16.0	-- 12.5
21	13.0	-- 10.0	15.0	-- 11.0	17.0	-- 14.0	20.0	-- 16.5	16.5	-- 14.5	16.0	-- 13.0
22	11.5	-- 10.0	15.0	-- 12.0	17.0	-- 14.5	20.0	-- 16.0	18.0	-- 14.5	16.0	-- 12.5
23	11.0	-- 9.0	16.0	-- 12.5	17.0	-- 14.5	20.0	-- 15.5	18.0	-- 14.0	14.5	-- 12.0
24	11.0	-- 10.0	17.0	-- 12.5	16.5	-- 14.5	19.5	-- 15.5	18.5	-- 14.5	-- --	--
25	11.5	-- 9.5	17.0	-- 13.0	17.0	-- 13.5	20.0	-- 15.5	18.0	-- 15.0	-- 18.0	--
26	11.5	-- 8.5	17.0	-- 13.0	17.5	-- 14.0	20.5	-- 16.0	16.0	-- 14.5	-- --	--
27	12.5	-- 9.0	17.5	-- 13.5	17.5	-- 14.0	20.0	-- 16.5	16.0	-- 14.5	-- 15.5	--
28	13.0	-- 9.5	18.5	-- 14.0	18.0	-- 11.5	19.5	-- 16.0	17.0	-- 13.5	-- --	--
29	13.0	-- 9.5	19.0	-- 15.0	18.0	-- 15.0	19.5	-- 16.5	17.0	-- 13.5	-- 15.5	--
30	13.5	-- 10.5	18.5	-- 15.0	17.5	-- 14.5	18.5	-- 15.0	16.5	-- 13.5	-- --	--
31	--	--	18.5	-- 14.5	-- --	--	18.5	-- 14.0	16.5	-- 13.0	-- --	--
MONTH	13.5	-- 7.0	19.0	-- 9.0	18.5	-- 11.5	20.5	-- 13.5	20.0	-- 13.0	-- --	--



11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	22	2	.12	36	16	1.6	35	8	.76
2	22	2	.12	32	5	.43	58	47	18
3	28	2	.15	31	5	.42	338	520	605
4	26	3	.21	30	9	.73	188	521	333
5	25	3	.20	29	7	.55	74	47	9.4
6	26	3	.21	29	2	.16	61	14	2.3
7	25	3	.20	31	8	.67	56	10	1.5
8	25	3	.20	34	4	.37	53	7	1.0
9	26	2	.14	31	4	.33	51	6	.83
10	26	4	.28	31	5	.42	50	4	.54
11	24	4	.26	30	7	.57	48	5	.65
12	24	11	.71	29	7	.55	48	6	.78
13	24	5	.32	28	5	.38	47	5	.63
14	24	3	.19	28	4	.30	47	4	.51
15	22	4	.24	28	3	.23	47	4	.51
16	22	5	.30	28	3	.23	47	5	.63
17	22	2	.12	29	2	.16	46	5	.62
18	22	2	.12	29	2	.16	46	4	.50
19	23	2	.12	29	2	.16	45	4	.49
20	26	2	.14	28	3	.23	45	3	.36
21	24	3	.19	138	153	77	44	2	.24
22	22	2	.12	72	139	27	44	2	.24
23	23	2	.12	46	84	10	44	4	.48
24	23	2	.12	40	30	3.2	34	8	.73
25	23	2	.12	38	8	.82	39	7	.74
26	23	2	.12	37	7	.70	41	5	.55
27	24	2	.13	36	5	.49	273	261	576
28	72	103	22	35	5	.47	400	332	509
29	50	24	3.2	35	4	.38	112	17	5.1
30	34	4	.37	35	4	.38	88	9	2.1
31	39	10	1.1	---	---	---	80	5	1.1
MONTH	841	---	31.94	1112	---	129.09	2629	---	2074.29
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	77	4	.83	318	316	408	93	18	4.5
2	70	4	.76	516	370	694	97	19	5.0
3	66	4	.71	166	30	13	91	16	3.9
4	66	4	.71	301	192	161	86	13	3.0
5	66	4	.71	181	24	12	87	17	4.0
6	77	14	3.2	132	16	5.7	109	26	7.7
7	89	14	3.4	140	16	6.0	1680	2230	16800
8	94	32	8.2	241	75	111	960	1190	3390
9	88	12	2.9	1020	538	1590	509	220	302
10	80	5	1.1	776	261	628	411	190	221
11	76	4	.82	357	51	49	321	86	75
12	72	3	.58	267	30	22	260	51	36
13	71	2	.38	1660	944	5200	373	415	564
14	69	2	.37	606	310	538	371	150	150
15	67	2	.36	357	100	96	326	88	101
16	66	2	.36	265	35	25	519	276	413
17	64	2	.35	212	20	11	340	83	76
18	64	3	.52	179	16	7.7	292	27	21
19	64	3	.52	166	31	14	258	19	13
20	63	4	.68	166	40	18	228	15	9.2
21	63	4	.68	140	35	13	1040	1780	16600
22	62	4	.67	129	33	11	1490	1640	9780
23	62	3	.50	121	31	10	598	360	581
24	61	2	.33	114	28	8.6	454	230	282
25	61	2	.33	109	26	7.7	737	760	1690
26	61	2	.33	103	23	6.4	486	220	289
27	60	2	.32	99	18	4.8	388	140	147
28	59	3	.48	96	16	4.1	328	110	97
29	59	3	.48	---	---	---	285	90	69
30	59	2	.32	---	---	---	258	66	46
31	82	42	26	---	---	---	234	60	38
MONTH	2138	---	57.90	8937	---	9675.0	13709	---	51818.3

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	210	35	20	88	5	1.2	48	17	2.2
2	192	22	11	86	4	.93	49	17	2.3
3	182	19	9.3	85	6	1.4	49	28	3.7
4	186	22	11	84	10	2.3	48	9	1.2
5	287	120	97	81	9	2.0	47	5	.63
6	232	51	32	79	6	1.3	47	4	.51
7	206	33	18	75	9	1.8	45	5	.61
8	196	21	11	74	11	2.2	45	6	.73
9	179	14	6.8	74	10	2.0	44	6	.71
10	165	14	6.2	73	9	1.8	44	5	.59
11	154	15	6.2	72	10	1.9	44	4	.48
12	145	16	6.3	70	12	2.3	42	4	.45
13	137	19	7.0	68	11	2.0	42	6	.68
14	132	13	4.6	67	9	1.6	42	5	.57
15	129	18	6.3	67	7	1.3	42	4	.45
16	128	25	8.6	63	5	.85	42	5	.57
17	125	19	6.4	63	5	.85	41	6	.66
18	116	10	3.1	63	4	.68	41	6	.66
19	112	9	2.7	62	4	.67	41	5	.55
20	109	15	4.4	61	2	.33	41	4	.44
21	104	19	5.3	57	3	.46	39	4	.42
22	99	19	5.1	58	7	1.1	40	4	.43
23	97	11	2.9	58	6	.94	39	3	.32
24	131	24	9.0	57	4	.62	39	4	.42
25	128	12	4.1	50	4	.54	39	4	.42
26	107	6	1.7	51	7	.96	38	4	.41
27	101	6	1.6	53	11	1.6	37	3	.30
28	96	5	1.3	52	16	2.2	33	2	.18
29	92	6	1.5	49	22	2.9	35	11	.97
30	89	7	1.7	50	26	3.5	32	7	.60
31	---	---	---	50	24	3.2	---	---	---
MONTH	4366	---	312.1	2040	---	47.43	1255	---	23.16
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	31	4	.33	22	6	.36	21	3	.17
2	31	2	.17	22	6	.36	21	3	.17
3	31	2	.17	22	6	.36	20	4	.22
4	32	2	.17	22	6	.36	20	3	.16
5	32	6	.52	22	6	.36	19	3	.15
6	31	4	.33	22	7	.42	19	2	.10
7	31	4	.33	21	4	.23	19	2	.10
8	29	5	.39	20	4	.22	21	3	.17
9	29	6	.47	20	4	.22	21	2	.11
10	28	3	.23	21	3	.17	22	3	.18
11	28	6	.45	21	3	.17	21	3	.17
12	27	5	.36	21	3	.17	20	4	.22
13	28	5	.38	22	3	.18	20	4	.22
14	28	5	.38	23	5	.31	21	4	.23
15	30	5	.41	23	3	.19	20	3	.16
16	31	4	.33	23	3	.19	20	3	.16
17	30	4	.32	24	3	.19	20	3	.16
18	29	5	.39	29	9	.77	20	3	.16
19	28	6	.45	29	3	.23	19	2	.10
20	28	7	.53	25	4	.27	19	3	.15
21	28	10	.76	24	4	.26	19	3	.15
22	28	6	.45	23	10	.62	19	3	.15
23	26	4	.28	22	7	.42	19	3	.15
24	26	4	.28	21	6	.34	19	3	.15
25	25	4	.27	21	5	.28	18	4	.19
26	23	4	.25	21	3	.17	18	4	.19
27	23	4	.25	22	4	.24	17	7	.32
28	23	5	.31	21	4	.23	21	5	.28
29	23	6	.37	21	4	.23	19	6	.31
30	23	6	.37	21	7	.40	19	4	.21
31	23	6	.37	21	4	.23	---	---	---
MONTH	863	---	11.07	692	---	9.15	591	---	5.36
YEAR	39173.0		64194.79						

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1974	841.00	31.94	0	32
NOVEMBER ...	1112.00	129.09	19	148
DECEMBER ...	2629.00	2074.29	352	2430
JANUARY 1975	2138.00	57.90	2	60
FEBRUARY ...	8937.00	9675.00	2020	11700
MARCH .....	13709.00	51818.30	3360	55200
APRIL .....	4366.00	312.10	355	667
MAY .....	2040.00	47.43	0	47
JUNE .....	1255.00	23.16	0	23
JULY .....	863.00	11.07	0	11
AUGUST .....	692.00	9.15	0	9
SEPTEMBER ..	591.00	5.36	0	5
TOTAL .....	39173.00	64194.79	6108	70332

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDIM- ENT (MG/L)	SUS- PENDED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT. 28...	0800	13.0	61	155	26	--	--	--	--	--	--
NOV. 21...	1700	12.0	220	139	83	--	--	--	--	--	--
22...	1300	10.5	63	135	23	--	--	--	--	--	--
DEC. 03...	0800	10.0	300	183	148	--	--	--	--	--	--
04...	1200	11.0	136	471	173	71	88	95	99	99	--
05...	1700	10.0	68	47	8.6	--	--	--	--	--	--
28...	1200	8.0	269	269	195	52	68	76	84	86	--
JAN. 08...	0800	9.5	95	39	10	--	--	--	--	--	--
08...	1210	9.0	96	24	6.2	--	--	--	--	--	--
FEB. 01...	0900	8.0	177	221	106	68	84	91	95	96	--
02...	1000	8.0	470	385	489	38	48	57	66	72	--
03...	1140	8.0	166	30	13	--	--	--	--	--	--
04...	0800	8.5	320	162	140	--	--	--	--	--	--
09...	0800	10.0	1340	687	2490	19	24	31	38	44	--
09...	1600	11.0	716	305	590	--	--	--	--	--	--
10...	1700	11.0	586	160	253	--	--	--	--	--	--
13...	0800	10.0	2640	1740	12400	13	18	24	31	41	53
13...	1200	--	2500	1440	9730	--	--	--	--	--	--
13...	1700	11.0	1560	685	2890	--	--	--	--	--	--
MAR. 07...	1000	11.0	2670	2600	18800	19	26	33	41	52	62
07...	1700	11.0	2090	2830	16000	25	34	43	55	68	81
08...	1600	--	909	746	1830	15	18	22	26	32	--

## SAN LORENZO RIVER BASIN

11160500 SAN LORENZO RIVER AT BIG TREES, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT. 28...	99	--	100	--	--	--	--	--	--	--
NOV. 21...	86	--	91	--	98	--	100	--	--	--
22...	99	--	100	--	--	--	--	--	--	--
DEC. 03...	68	--	71	--	81	--	98	--	100	--
04...	99	--	99	--	100	--	--	--	--	--
05...	99	--	100	--	--	--	--	--	--	--
28...	87	--	89	--	94	--	99	--	100	--
JAN. 08...	95	--	98	--	100	--	--	--	--	--
08...	98	--	100	--	--	--	--	--	--	--
FEB. 01...	96	--	97	--	99	--	100	--	--	--
02...	73	--	77	--	82	--	95	--	100	--
03...	88	--	90	--	93	--	100	--	--	--
04...	64	--	68	--	79	--	96	--	100	--
09...	49	--	55	--	65	--	81	--	98	100
09...	57	--	61	--	71	--	91	--	100	--
10...	52	--	57	--	69	--	94	--	100	--
13...	--	65	--	77	--	97	--	100	--	--
13...	44	--	56	--	72	--	88	--	97	98
13...	54	--	65	--	81	--	95	--	100	--
MAR. 07...	--	70	--	80	--	95	--	100	--	--
07...	--	88	--	94	--	99	--	100	--	--
08...	35	--	40	--	52	--	83	--	97	100

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
JAN. 08...	1250	9.0	23	95	48	14	1
FEB. 03...	1230	8.0	9	166	48	54	1
APR. 24...	1425	10.5	24	147	50	11	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
JAN. 08...	13	47	82	94	98	99	100
FEB. 03...	17	50	74	92	98	100	--
APR. 24...	26	71	95	99	100	--	--

## MAJORS CREEK BASIN

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11161570 MAJORS CREEK NEAR SANTA CRUZ, CALIF.

LOCATION.--Lat 36°59'55", long 122°07'13", in Refugio Grant, Santa Cruz County, on left bank 1.5 mi (2.4 km) downstream from small left-bank tributary, 1.7 mi (2.7 km) upstream from State Highway No. 1, and 5.5 mi (8.8 km) northwest of Santa Cruz Post Office.

DRAINAGE AREA.--3.77 mi<sup>2</sup> (9.76 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 348 ft (106 m) above mean sea level (levels by city of Santa Cruz).

AVERAGE DISCHARGE.--6 years, 4.75 ft<sup>3</sup>/s (0.135 m<sup>3</sup>/s), 3,440 acre-ft/yr (4.24 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 105 ft<sup>3</sup>/s (2.97 m<sup>3</sup>/s) Mar. 21 (gage height, 4.93 ft or 1.503 m); minimum daily, 1.3 ft<sup>3</sup>/s (0.037 m<sup>3</sup>/s) Sept. 19-30.

Period of record: Maximum discharge, 650 ft<sup>3</sup>/s (18.4 m<sup>3</sup>/s) Apr. 1, 1974 (gage height, 6.52 ft or 1.987 m), from rating curve extended above 160 ft<sup>3</sup>/s (4.53 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 5.92 ft (1.804 m); minimum daily, 0.92 ft<sup>3</sup>/s (0.026 m<sup>3</sup>/s) Sept. 29 to Oct. 4, Oct. 9, 1972.

REMARKS.--Records poor. No regulation or diversion above station. Records of discharge include flow diverted through pipeline from pool for municipal supply of city of Santa Cruz as determined by spalling-meter readings furnished by city of Santa Cruz.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.1	1.9	2.0	3.0	5.1	4.4	3.1	2.4	1.9	1.5	1.4
2	2.3	2.0	2.5	2.0	4.0	5.0	4.3	3.1	2.4	1.9	1.5	1.4
3	2.3	2.0	9.0	1.9	3.2	4.8	4.3	3.1	2.4	1.9	1.5	1.4
4	2.2	2.0	3.0	1.9	4.4	4.7	4.3	3.1	2.3	1.9	1.5	1.4
5	2.2	2.0	2.3	1.9	3.4	4.7	7.7	3.0	2.3	1.8	1.5	1.4
6	2.2	2.0	2.2	5.5	2.6	5.0	6.9	3.0	2.3	1.8	1.5	1.4
7	2.3	2.0	2.0	4.1	3.9	16	6.4	3.0	2.3	1.8	1.5	1.4
8	2.3	1.9	1.9	8.8	10	11	7.9	2.9	2.3	1.8	1.5	1.4
9	2.2	1.9	1.8	3.9	23	6.6	6.1	2.9	2.2	1.8	1.5	1.4
10	2.1	1.9	1.8	3.5	8.8	8.9	5.3	2.9	2.2	1.8	1.5	1.4
11	2.0	1.9	1.7	3.1	5.1	6.2	4.9	2.9	2.2	1.8	1.5	1.4
12	1.9	1.9	1.8	2.8	5.3	4.9	4.6	2.8	2.2	1.8	1.4	1.4
13	1.8	1.9	1.7	2.6	51	10	4.4	2.8	2.2	1.7	1.4	1.4
14	1.8	1.9	1.7	2.4	22	11	4.3	2.8	2.2	1.7	1.4	1.4
15	1.8	1.9	1.7	2.3	13	7.1	4.4	2.8	2.1	1.7	1.4	1.4
16	1.8	1.9	1.7	2.2	10	11	4.3	2.7	2.1	1.7	1.4	1.4
17	1.8	1.9	1.7	2.1	8.8	6.7	4.0	2.7	2.1	1.7	1.4	1.4
18	1.8	1.9	1.7	2.0	8.0	5.7	4.0	2.7	2.1	1.7	1.4	1.4
19	1.8	1.9	1.5	1.9	8.4	4.9	3.8	2.7	2.1	1.7	1.4	1.3
20	1.8	2.1	1.5	1.9	8.4	4.4	3.8	2.7	2.0	1.7	1.4	1.3
21	1.7	3.8	1.5	1.8	7.6	19	3.6	2.6	2.0	1.6	1.4	1.3
22	1.7	2.4	1.5	1.8	7.1	20	3.5	2.6	2.0	1.6	1.4	1.3
23	1.7	2.1	1.5	1.7	6.6	9.1	3.4	2.6	2.0	1.6	1.4	1.3
24	1.8	2.0	1.5	1.7	6.2	7.4	4.2	2.6	2.0	1.6	1.4	1.3
25	1.7	1.9	1.5	1.7	5.9	31	4.3	2.5	2.0	1.6	1.4	1.3
26	1.8	1.9	1.5	1.7	5.7	10	3.6	2.5	2.0	1.6	1.4	1.3
27	1.9	1.9	3.8	1.7	5.5	7.5	3.5	2.5	1.9	1.6	1.4	1.3
28	4.0	1.9	4.3	1.7	5.2	6.3	3.3	2.5	1.9	1.6	1.4	1.3
29	2.8	1.9	1.9	1.7	---	5.6	3.2	2.5	1.9	1.6	1.4	1.3
30	2.4	1.9	1.8	1.7	---	5.1	3.1	2.4	1.9	1.5	1.4	1.3
31	2.2	---	1.8	1.4	---	4.8	---	2.4	---	1.5	1.4	---
TOTAL	64.1	60.7	67.7	77.4	256.1	269.5	135.8	85.4	64.0	53.0	44.5	40.8
MEAN	2.07	2.02	2.18	2.50	9.15	8.69	4.53	2.75	2.13	1.71	1.44	1.36
MAX	4.0	3.8	9.0	8.8	51	31	7.9	3.1	2.4	1.9	1.5	1.4
MIN	1.7	1.9	1.5	1.4	2.6	4.4	3.1	2.4	1.9	1.5	1.4	1.3
AC-FT	127	120	134	154	508	535	269	169	127	105	88	81

CAL YR 1974 TOTAL 2395.4 MEAN 6.56 MAX 280 MIN 1.5 AC-FT 4750  
WTR YR 1975 TOTAL 1219.0 MEAN 3.34 MAX 51 MIN 1.3 AC-FT 2420

Peak discharge (base, 80 ft<sup>3</sup>/s).--Feb. 13 (0930) 96 ft<sup>3</sup>/s (4.88 ft); Mar. 21 (2030) 105 ft<sup>3</sup>/s (4.93 ft).

## LAGUNA CREEK BASIN

11161590 LAGUNA CREEK NEAR DAVENPORT, CALIF.

LOCATION.--Lat 37°01'32", long 122°07'48", in SW¼SW¼ sec.30, T.10 S., R.2 W., Santa Cruz County, on right bank 0.2 mi (0.3 km) upstream from Reggiardo Creek, 0.4 mi (0.6 km) downstream from small left-bank tributary, and 3.6 mi (5.8 km) northeast of Davenport.

DRAINAGE AREA.--3.07 mi<sup>2</sup> (7.95 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 680 ft (207 m), from topographic map.

AVERAGE DISCHARGE.--6 years, 5.74 ft<sup>3</sup>/s (0.163 m<sup>3</sup>/s), 4,160 acre-ft/yr (5.13 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 125 ft<sup>3</sup>/s (3.54 m<sup>3</sup>/s) Mar. 21 (gage height, 2.87 ft or 0.875 m), from rating curve extended above 120 ft<sup>3</sup>/s (3.40 m<sup>3</sup>/s); minimum daily, 0.72 ft<sup>3</sup>/s (0.020 m<sup>3</sup>/s) Nov. 30, Dec. 1, Jan. 26, 27, 29, 30.  
Period of record: Maximum discharge, 283 ft<sup>3</sup>/s (8.01 m<sup>3</sup>/s) Apr. 1, 1974 (gage height, 3.68 ft or 1.122 m), from rating curve extended above 120 ft<sup>3</sup>/s (3.40 m<sup>3</sup>/s); minimum daily, 0.28 ft<sup>3</sup>/s (0.008 m<sup>3</sup>/s) Aug. 30, 31, 1972.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.2	.72	1.3	1.0	4.0	9.6	6.8	4.0	2.5	1.6	1.4
2	1.4	1.1	1.8	1.3	1.1	3.9	9.2	6.5	3.9	2.5	1.6	1.4
3	1.4	1.1	7.3	1.3	.90	3.8	8.8	6.4	3.8	2.4	1.6	1.3
4	1.3	1.0	4.1	1.3	1.7	3.7	9.2	6.3	3.8	2.4	1.5	1.3
5	1.3	.98	2.0	1.2	1.3	3.8	12	6.2	3.8	2.3	1.5	1.3
6	1.3	.96	1.5	3.3	1.1	6.9	11	5.9	3.8	2.2	1.5	1.3
7	1.2	1.2	1.4	2.9	1.6	11	10	5.9	3.8	2.2	1.5	1.4
8	1.3	1.0	1.3	6.3	9.6	8.6	11	5.9	3.5	2.1	1.5	1.5
9	1.1	.96	1.2	2.8	27	7.8	10	5.9	3.4	2.1	1.4	1.5
10	1.1	.94	1.1	2.1	14	8.0	9.2	5.8	3.4	2.0	1.4	1.5
11	1.0	.88	1.1	1.7	8.4	7.3	8.8	5.7	3.4	2.0	1.5	1.5
12	1.0	.88	1.1	1.5	7.3	6.0	8.4	5.5	3.3	2.0	1.5	1.4
13	1.0	.85	1.1	1.4	56	8.3	8.0	5.4	3.3	2.0	1.5	1.4
14	.96	.80	1.1	1.2	19	7.9	8.0	5.3	3.3	2.0	1.5	1.3
15	.96	.80	1.1	1.2	12	7.2	8.0	5.3	3.3	2.0	1.5	1.3
16	.96	.80	.96	1.1	8.8	11	7.7	5.3	3.2	1.9	1.6	1.3
17	.93	.80	.96	1.1	7.3	8.0	7.7	5.2	3.3	1.9	1.6	1.3
18	.91	.83	.88	1.0	6.2	6.4	7.3	5.1	3.3	1.9	2.0	1.3
19	.91	.80	.88	.94	6.6	5.9	7.0	4.8	3.3	1.8	1.9	1.3
20	.93	.76	.88	.88	6.3	5.3	7.0	4.8	3.2	1.7	1.8	1.3
21	.91	1.2	.88	.88	5.7	25	6.6	4.8	3.1	1.7	1.8	1.3
22	.89	.95	.88	.86	5.4	31	6.3	4.6	3.1	1.7	1.7	1.3
23	.89	.88	.88	.80	5.1	18	6.3	4.6	3.1	1.9	1.6	1.3
24	.88	.85	.88	.80	4.8	15	8.8	4.5	3.1	1.8	1.6	1.2
25	.88	.82	.88	.78	4.6	30	8.8	4.3	3.0	1.7	1.5	1.2
26	.88	.80	.88	.72	4.4	18	7.7	4.3	2.9	1.7	1.5	1.2
27	1.0	.80	2.3	.72	4.2	15	7.3	4.2	2.9	1.7	1.6	1.2
28	2.4	.80	4.1	.74	4.0	13	7.0	4.1	2.8	1.7	1.5	1.2
29	1.3	.80	2.0	.72	---	12	7.0	4.1	2.6	1.7	1.5	1.3
30	1.1	.72	1.5	.72	---	11	7.0	4.0	2.5	1.7	1.4	1.3
31	1.5	---	1.4	.82	---	10	---	4.0	---	1.6	1.4	---
TOTAL	34.79	27.26	49.06	44.38	235.40	332.8	250.7	161.5	99.2	60.8	48.6	39.8
MEAN	1.12	.91	1.58	1.43	8.41	10.7	8.36	5.21	3.31	1.96	1.57	1.33
MAX	2.4	1.2	7.3	6.3	56	31	12	6.8	4.0	2.5	2.0	1.5
MIN	.88	.72	.72	.72	.90	3.7	6.3	4.0	2.5	1.6	1.4	1.2
AC-FT	69	54	97	88	467	660	497	320	197	121	96	79
CAL YR 1974 TOTAL	3134.71											
WTR YR 1975 TOTAL	1384.29											
MEAN	8.59											
MAX	270											
MIN	.72											
AC-FT	6220											
WTR	2750											

Peak discharge (base, 110 ft<sup>3</sup>/s).--Mar. 21 (2100) 125 ft<sup>3</sup>/s (2.87 ft).

NOTE.--No gage-height record Feb. 17 to Mar. 18.

## SAN VICENTE CREEK BASIN

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11161800 SAN VICENTE CREEK NEAR DAVENPORT, CALIF.

LOCATION.--Lat 37°03'19", long 122°10'52", on east boundary of San Vicente Grant, Santa Cruz County, on right bank, 0.6 mi (1.0 km) downstream from small right-bank tributary, 1.2 mi (1.9 km) upstream from Mill Creek, and 3.1 mi (5.0 km) north of Davenport.

DRAINAGE AREA.--6.07 mi<sup>2</sup> (15.72 km<sup>2</sup>).

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

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

AVERAGE DISCHARGE.--6 years, 9.68 ft<sup>3</sup>/s (0.274 m<sup>3</sup>/s), 7,010 acre-ft/yr (8.64 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 138 ft<sup>3</sup>/s (3.908 m<sup>3</sup>/s) Mar. 21 (gage height, 4.27 ft or 1.301 m); minimum daily, 1.7 ft<sup>3</sup>/s (0.048 m<sup>3</sup>/s) Nov. 29 to Dec. 1.  
Period of record: Maximum discharge, 937 ft<sup>3</sup>/s (26.5 m<sup>3</sup>/s) Apr. 1, 1974 (gage height, 5.83 ft or 1.777 m), from rating curve extended above 210 ft<sup>3</sup>/s (5.95 m<sup>3</sup>/s); minimum daily, 0.39 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/s) Aug. 24, 31, Sept. 1, 2, 7, 1972.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	2.6	1.7	3.6	5.7	7.9	15	10	6.5	5.2	2.5	2.5
2	2.7	2.5	2.9	3.3	5.9	7.7	15	10	6.5	5.2	2.5	2.4
3	2.7	2.4	12	3.1	5.7	7.5	15	10	6.3	5.0	2.2	2.2
4	2.6	2.4	7.3	3.3	6.9	7.3	15	9.8	6.5	4.8	2.4	2.1
5	2.6	2.4	4.3	3.1	5.5	7.3	16	9.4	6.7	4.6	2.4	2.0
6	2.6	2.4	3.4	7.5	5.5	7.9	15	9.2	6.9	4.6	2.4	2.0
7	2.6	2.7	3.1	6.5	6.5	21	15	9.2	6.9	4.5	2.4	2.0
8	2.6	2.6	2.9	11	13	18	16	9.0	7.1	4.3	2.1	2.0
9	2.6	2.5	2.7	6.9	32	15	15	8.8	7.1	4.1	2.1	2.1
10	2.5	2.4	2.7	6.2	17	15	14	8.8	7.1	4.1	2.0	2.1
11	2.2	2.4	2.6	5.3	13	14	14	8.6	7.1	4.1	2.1	2.1
12	2.2	2.4	2.6	4.8	12	13	13	8.4	6.8	4.1	2.2	2.2
13	2.1	2.4	2.5	4.4	71	16	13	8.4	6.8	4.1	2.1	2.1
14	2.1	2.2	2.5	4.1	31	19	13	8.2	6.8	4.1	2.1	2.1
15	2.1	2.2	2.4	3.9	18	17	13	8.2	6.8	4.1	2.1	2.1
16	2.1	2.4	2.4	3.6	15	22	13	8.2	6.6	3.9	2.1	2.1
17	2.1	2.4	2.4	3.4	14	17	12	7.9	6.8	3.8	2.1	2.1
18	2.1	2.5	2.2	3.4	12	16	12	7.7	6.9	3.6	2.4	2.0
19	2.1	2.4	2.2	3.3	13	15	12	7.7	6.7	3.4	2.2	2.0
20	2.1	2.4	2.2	3.1	13	14	11	7.5	6.6	3.4	2.2	2.0
21	2.0	4.8	2.2	3.0	12	32	11	7.3	6.4	3.3	2.2	2.0
22	2.0	2.6	2.2	3.0	11	50	11	7.3	6.4	3.3	2.4	2.0
23	2.0	2.2	2.2	2.9	10	29	11	7.1	6.4	3.3	2.2	2.1
24	2.1	2.0	2.2	2.9	9.6	25	16	7.1	6.4	3.0	2.2	2.0
25	2.0	2.0	2.2	2.7	9.2	44	14	6.9	6.1	3.0	2.4	2.0
26	2.0	1.8	2.2	2.7	8.6	30	12	6.7	6.0	2.9	2.4	2.0
27	2.2	1.8	5.6	2.7	8.2	25	12	6.5	6.0	2.9	2.5	2.0
28	5.3	1.8	8.8	2.7	7.9	21	11	6.3	5.5	2.9	2.4	2.1
29	3.1	1.7	5.0	2.6	---	19	11	6.1	5.2	2.9	2.4	2.1
30	2.6	1.7	4.3	2.6	---	18	11	6.1	5.2	2.7	2.4	2.1
31	3.0	---	3.8	3.8	---	17	---	6.3	---	2.6	2.5	---
TOTAL	75.5	71.0	107.7	125.4	392.2	587.6	397	248.7	195.1	117.8	70.6	62.6
MEAN	2.44	2.37	3.47	4.05	14.0	19.0	13.2	8.02	6.50	3.80	2.28	2.09
MAX	5.3	4.8	12	11	71	50	16	10	7.1	5.2	2.5	2.5
MIN	2.0	1.7	1.7	2.6	5.5	7.3	11	6.1	5.2	2.6	2.0	2.0
AC-FT	150	141	214	249	778	1170	787	493	387	234	140	124
CAL YR 1974 TOTAL	6075.7											
WTR YR 1975 TOTAL	2451.2											
MEAN 16.6												
MAX 555												
MIN 1.7												
AC-FT 12050												
AC-FT 4860												

Peak discharge (base, 100 ft<sup>3</sup>/s).--Feb. 13 (1000) 129 ft<sup>3</sup>/s (4.23 ft); Mar. 21 (2230) 138 ft<sup>3</sup>/s (4.27 ft).

## PESCADERO CREEK BASIN

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, on left bank at downstream side of highway bridge, 3.0 mi (4.8 km) east of Pescadero, and 5.3 mi (8.5 km) upstream from mouth.

DRAINAGE AREA.--45.9 mi<sup>2</sup> (118.9 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 62.3 ft (18.99 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 42.5 ft<sup>3</sup>/s (1.204 m<sup>3</sup>/s), 30,790 acre-ft/yr (38.0 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 1,740 ft<sup>3</sup>/s (49.3 m<sup>3</sup>/s) Mar. 22 (gage height, 8.55 ft or 2.606 m); minimum daily, 2.5 ft<sup>3</sup>/s (0.071 m<sup>3</sup>/s) Sept. 29.  
Period of record: Maximum discharge, 9,420 ft<sup>3</sup>/s (267 m<sup>3</sup>/s) Dec. 23, 1955 (gage height, 21.27 ft or 6.483 m), from rating curve extended above 2,700 ft<sup>3</sup>/s (76.5 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times.

REMARKS.--Records good. Minor regulation from swimming pools in San Mateo County Memorial Park and Portola State Park during summer months. Small diversions above station by pumping.

REVISIONS (WATER YEARS).--WSP 1445: 1952-53(M). WSP 1715: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.1	8.4	8.4	32	178	28	74	27	12	8.6	5.4	4.2
2	4.1	6.7	9.5	29	271	27	68	26	12	8.6	5.4	4.2
3	4.4	5.4	37	27	87	26	65	25	12	8.6	5.0	4.1
4	4.1	4.8	73	26	111	25	64	25	12	8.9	4.8	4.1
5	4.1	4.8	32	27	89	25	93	24	9.5	8.6	4.6	3.9
6	3.9	4.6	20	63	65	26	79	23	9.5	8.4	4.8	3.7
7	3.9	5.4	16	91	57	319	71	22	11	8.1	4.8	3.7
8	3.7	8.1	15	107	55	278	67	22	11	7.9	4.6	3.5
9	4.1	7.9	13	115	343	157	64	21	11	7.9	4.6	3.5
10	4.1	5.8	12	88	345	112	59	20	10	7.6	4.6	3.9
11	4.1	5.6	12	70	148	88	56	20	9.7	7.4	4.6	3.9
12	3.9	5.4	12	56	102	71	54	19	9.7	7.4	4.6	3.9
13	3.5	5.0	12	48	389	85	51	18	9.7	7.1	4.8	3.9
14	3.5	4.8	12	43	225	122	49	18	9.5	7.1	4.8	3.7
15	3.2	5.0	12	38	128	94	49	18	9.5	7.1	4.8	3.5
16	3.2	5.0	12	35	95	189	46	17	9.5	7.9	5.0	3.5
17	3.2	5.6	14	32	77	115	45	17	9.7	7.4	5.0	3.7
18	3.1	6.4	16	30	66	91	42	16	9.7	7.1	5.6	3.5
19	3.1	6.9	16	29	61	78	40	16	9.7	7.1	7.1	3.2
20	3.1	6.9	17	27	74	69	38	16	11	6.9	6.2	3.2
21	3.2	24	18	26	57	198	37	15	10	6.7	5.4	3.2
22	3.4	32	19	25	49	675	35	15	10	6.7	5.2	3.4
23	3.4	14	20	24	45	236	34	15	9.7	6.4	4.8	3.2
24	3.5	10	20	24	40	157	35	15	10	6.2	4.8	4.8
25	3.7	9.2	20	24	38	280	40	14	10	5.8	4.4	3.5
26	3.7	8.9	20	23	35	192	34	14	9.5	5.6	4.4	2.6
27	4.1	8.6	51	23	33	143	33	13	9.5	5.4	4.4	2.6
28	13	8.4	187	23	30	120	31	13	9.2	5.4	4.6	2.6
29	17	8.4	70	24	---	102	29	13	8.9	5.8	4.6	2.5
30	7.9	8.1	45	24	---	91	28	12	8.6	5.6	4.6	2.6
31	6.7	---	36	28	---	81	---	12	---	5.6	4.4	---
TOTAL	144.0	250.1	876.9	1281	3293	4300	1510	561	303.1	220.9	152.7	105.8
MEAN	4.65	8.34	28.3	41.3	118	139	50.3	18.1	10.1	7.13	4.93	3.53
MAX	17	32	187	115	389	675	93	27	12	8.9	7.1	4.8
MIN	3.1	4.6	8.4	23	30	25	28	12	8.6	5.4	4.4	2.5
AC-FT	286	496	1740	2540	6530	8530	3000	1110	601	438	303	210
CAL YR 1974 TOTAL	19239.5			MEAN 52.7	MAX 1170	MIN 3.1	AC-FT 38160					
WTR YR 1975 TOTAL	12998.5			MEAN 35.6	MAX 675	MIN 2.5	AC-FT 25780					

Peak discharge (base, 700 ft<sup>3</sup>/s).--Mar. 7 (1430) 862 ft<sup>3</sup>/s (6.30 ft); Mar. 22 (0030) 1,740 ft<sup>3</sup>/s (8.55 ft).



## 11162500 PESCADERO CREEK NEAR PESCADERO, CALIF.--Continued

PERIOD OF RECORD.--Water temperatures: April 1965 to current year.  
Sediment records: Water years 1971, 1973 (partial-record station).

## EXTREMES.--Current year:

Water temperatures: Maximum, 19.0°C on several days during July and August; minimum, 3.5°C Dec. 26, Jan. 30, 31.

## Period of record:

Water temperatures: Maximum, 22.5°C June 27, 1973; minimum (1965-66, 1967 to current year), 2.0°C Dec. 19, 1965.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

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

## SAN GREGORIO CREEK BASIN

11162570 SAN GREGORIO CREEK AT SAN GREGORIO, CALIF.

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

DRAINAGE AREA.--50.9 mi<sup>2</sup> (131.8 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 11.40 ft (3.475 m) above mean sea level.

AVERAGE DISCHARGE.--6 years, 45.0 ft<sup>3</sup>/s (1.274 m<sup>3</sup>/s), 32,600 acre-ft/yr (40.2 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,010 ft<sup>3</sup>/s (56.9 m<sup>3</sup>/s) Mar. 21 (gage height, 12.52 ft or 3.816 m); minimum daily, 1.9 ft<sup>3</sup>/s (0.054 m<sup>3</sup>/s) Aug. 10, 12, Sept. 5, 8.  
Period of record: Maximum discharge, 3,730 ft<sup>3</sup>/s (106 m<sup>3</sup>/s) Jan. 16, 1973 (gage height, 17.5 ft or 5.33 m, from outside high-water marks); no flow many days in 1972.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	7.7	9.1	12	55	24	57	24	9.1	5.5	3.7	2.7
2	3.5	5.0	10	10	98	23	53	23	9.1	5.2	3.7	2.7
3	4.2	4.2	18	7.0	40	20	50	22	9.1	5.5	3.1	2.7
4	3.5	4.0	41	7.3	100	20	54	22	8.7	5.5	2.9	2.6
5	3.1	4.0	6.4	8.0	55	20	112	21	8.0	5.0	3.1	1.9
6	3.1	3.7	3.7	71	40	20	90	20	7.7	5.0	3.3	2.1
7	3.1	4.2	2.7	77	37	141	71	20	8.0	5.0	3.1	2.2
8	3.3	7.0	2.7	114	40	109	68	19	8.0	5.0	2.9	1.9
9	3.3	5.2	2.4	57	167	71	61	19	7.0	5.0	2.2	2.6
10	3.3	4.4	2.2	48	181	68	55	18	6.7	4.7	1.9	2.4
11	3.3	4.0	2.2	35	90	56	51	17	6.7	5.5	2.1	2.6
12	3.1	4.0	2.6	25	65	47	47	17	6.7	5.5	1.9	2.6
13	2.4	3.7	3.5	20	442	83	44	16	6.4	5.2	2.7	2.7
14	2.6	4.0	3.5	17	156	95	43	15	6.4	5.0	3.3	2.4
15	2.6	3.7	4.0	15	89	83	42	16	7.3	6.1	3.7	2.4
16	2.7	3.7	4.2	13	66	171	40	16	7.3	7.3	3.7	2.4
17	2.7	4.0	4.2	11	53	87	38	15	8.0	6.4	3.5	2.7
18	2.4	4.4	4.0	10	44	71	36	15	8.3	5.8	4.0	3.1
19	2.2	5.8	4.0	9.5	70	63	34	14	8.3	5.8	6.4	3.1
20	2.6	5.0	4.0	9.1	103	56	33	13	9.5	6.1	4.7	3.1
21	2.9	8.1	4.0	8.7	61	372	31	13	9.5	6.1	4.2	2.6
22	2.7	9.1	4.2	8.0	49	532	29	12	8.3	5.8	3.7	2.2
23	2.7	6.4	4.2	7.7	42	176	28	11	7.7	5.5	3.1	2.4
24	2.9	5.0	4.2	7.7	38	137	29	12	8.3	4.7	3.1	2.2
25	3.1	4.4	4.0	7.3	34	436	35	12	8.3	4.4	2.9	2.2
26	3.1	4.4	4.2	7.3	30	176	28	11	7.0	4.0	2.7	2.1
27	3.1	5.5	37	7.3	28	125	27	11	6.7	3.5	2.9	2.6
28	14	6.7	94	7.0	25	97	26	10	6.4	3.7	3.1	2.4
29	10	8.0	32	7.0	---	82	25	9.1	6.1	4.4	3.1	2.6
30	5.2	9.1	16	7.0	---	71	24	9.1	5.5	4.4	3.3	2.2
31	6.1	---	13	11	---	64	---	9.1	---	3.7	2.7	---
TOTAL	115.7	158.4	351.2	661.9	2298	3596	1361	481.3	230.1	160.3	100.7	74.4
MEAN	3.73	5.28	11.3	21.4	82.1	116	45.4	15.5	7.67	5.17	3.25	2.48
MAX	14	9.1	94	114	442	532	112	24	9.5	7.3	6.4	3.1
MIN	2.2	3.7	2.2	7.0	25	20	24	9.1	5.5	3.5	1.9	1.9
AC-FT	229	314	697	1310	4560	7130	2700	955	456	318	200	148
CAL YR 1974 TOTAL	19237.5		MEAN 52.7	MAX 2030	MIN 2.2	AC-FT 38160						
WTR YR 1975 TOTAL	9589.0		MEAN 26.3	MAX 532	MIN 1.9	AC-FT 19020						

Peak discharge (base, 1,000 ft<sup>3</sup>/s).--Mar. 21 (2200) 2,010 ft<sup>3</sup>/s (12.52 ft).

## PILARCITOS CREEK BASIN

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11162630 PILARCITOS CREEK AT HALF MOON BAY, CALIF.

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

DRAINAGE AREA.--27.2 mi<sup>2</sup> (70.4 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 23.59 ft (7.190 m) above mean sea level.

AVERAGE DISCHARGE (unadjusted).--9 years, 15.7 ft<sup>3</sup>/s (0.445 m<sup>3</sup>/s), 11,370 acre-ft/yr (14.0 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 530 ft<sup>3</sup>/s (15.0 m<sup>3</sup>/s) Mar. 21 (gage height, 6.68 ft or 2.036 m); minimum daily, 0.18 ft<sup>3</sup>/s (0.005 m<sup>3</sup>/s) Sept. 5.

Period of record: Maximum discharge, 1,290 ft<sup>3</sup>/s (36.5 m<sup>3</sup>/s) Jan. 30, 1968 (gage height, 11.20 ft or 3.414 m); no flow at times in most years.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.68	3.2	2.3	2.4	18	8.3	25	12	1.7	.72	1.7	1.2
2	1.3	2.6	3.4	2.5	32	8.0	23	11	1.7	.73	1.6	.76
3	.91	2.2	8.0	2.4	11	7.4	23	11	1.7	1.2	1.5	.62
4	.94	1.9	4.7	3.7	13	7.7	31	8.7	2.6	1.3	1.5	.35
5	1.1	1.9	2.3	3.2	8.6	8.1	63	8.0	1.8	1.5	1.4	.18
6	.75	1.8	2.3	16	6.7	7.1	49	8.0	1.8	1.5	1.5	.21
7	1.1	2.3	2.0	15	7.1	11	39	9.1	1.6	1.4	1.6	.39
8	1.4	3.2	2.0	25	8.6	7.2	35	7.9	1.8	1.4	1.6	.65
9	.69	2.9	2.3	13	49	6.3	30	8.1	1.8	.94	1.6	.90
10	.82	2.5	2.3	12	41	11	28	7.6	1.7	1.0	1.6	.71
11	1.1	2.2	2.3	7.9	20	8.0	25	8.7	1.8	1.2	1.6	1.0
12	.71	2.1	2.7	5.9	16	6.2	23	7.9	1.9	1.4	1.6	1.3
13	1.0	2.0	2.5	5.5	98	38	21	5.8	1.8	1.7	1.6	1.2
14	1.2	1.8	2.8	5.0	45	42	21	5.9	2.3	2.0	1.7	.91
15	.94	2.0	2.6	4.2	27	40	20	5.8	2.7	2.3	1.7	.81
16	.74	1.9	2.7	4.2	20	81	18	5.2	2.8	2.4	1.7	.76
17	.48	1.6	3.0	3.8	16	38	17	4.7	2.4	2.2	1.7	.69
18	.48	1.5	3.0	3.8	14	29	16	5.2	2.1	2.2	1.8	.56
19	.47	1.6	3.0	3.6	26	26	16	5.2	2.5	2.2	2.2	.51
20	.49	4.0	3.0	3.5	29	21	15	4.7	2.3	2.1	2.0	.57
21	.51	4.2	3.0	3.6	20	128	14	4.2	2.3	2.1	1.7	.82
22	.53	2.0	3.0	3.0	17	189	13	4.2	2.5	2.0	1.6	.83
23	.55	1.4	2.8	2.9	14	68	12	4.2	2.7	2.0	1.3	.79
24	.56	1.7	2.7	2.9	13	54	14	3.4	2.8	1.9	1.4	.46
25	.57	2.0	2.8	2.9	11	140	14	2.6	2.0	1.8	1.5	.33
26	.60	2.0	2.9	2.8	10	71	13	2.3	1.6	1.7	1.3	.50
27	.86	1.7	7.6	2.8	9.5	54	12	2.0	1.5	1.7	1.3	.45
28	3.0	2.3	10	2.8	8.6	44	12	1.7	1.3	1.7	1.5	.55
29	6.2	2.0	3.9	2.8	---	37	12	1.2	1.4	1.8	1.4	.64
30	3.0	2.3	2.9	3.0	---	33	12	1.2	1.3	1.7	1.3	.61
31	2.5	---	2.4	3.8	---	29	---	1.7	---	1.7	1.5	---
TOTAL	36.18	66.8	103.2	175.9	609.1	1258.3	666	179.2	60.2	51.49	49.0	20.26
MEAN	1.17	2.23	3.33	5.67	21.8	40.6	22.2	5.78	2.01	1.66	1.58	.68
MAX	6.2	4.2	10	25	98	189	63	12	2.8	2.4	2.2	1.3
MIN	.47	1.4	2.0	2.4	6.7	6.2	12	1.2	1.3	.72	1.3	.18
AC-FT	72	132	205	349	1210	2500	1320	355	119	102	97	40
(a)	323	179	2.1	313	519	1,340	568	376	2.2	2.3	189	77

CAL YR 1974 TOTAL 6940.25 MEAN 19.0 MAX 458 MIN .15 AC-FT 13770  
WTR YR 1975 TOTAL 3275.63 MEAN 8.97 MAX 189 MIN .18 AC-FT 6500

Peak discharge (base, 200 ft<sup>3</sup>/s).--Mar. 21 (2100) 530 ft<sup>3</sup>/s (6.68 ft); Mar. 25 (0430) 266 ft<sup>3</sup>/s (4.91 ft).

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

## 11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.

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

DRAINAGE AREA.--10.8 mi<sup>2</sup> (28.0 km<sup>2</sup>).

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 12.53 ft (3.819 m) above mean sea level. Recording rain gages at Skyline College (formerly at site at Coast Guard radio station) 2.9 mi (4.7 km) southwest and on San Bruno Mt. 2.9 mi (4.7 km) northwest. Altitude of both sites is 930 ft (283 m), from topographic map.

AVERAGE DISCHARGE.--12 years, 7.45 ft<sup>3</sup>/s (0.211 m<sup>3</sup>/s), 5,400 acre-ft/yr (6.66 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 906 ft<sup>3</sup>/s (25.7 m<sup>3</sup>/s) Jan. 31 (gage height, 7.43 ft or 2.265 m); minimum daily, 0.43 ft<sup>3</sup>/s (0.012 m<sup>3</sup>/s) Dec. 20, 21, Feb. 25, 26.  
Period of record: Maximum discharge, 2,880 ft<sup>3</sup>/s (81.6 m<sup>3</sup>/s) Jan. 16, 1973 (gage height, 11.80 ft or 3.597 m); no flow Oct. 5, 26, 1963.

REMARKS.--Records poor. Low flow affected by return flow from urban irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	.80	.61	.59	34	.74	2.0	2.0	1.8	1.6	1.0	1.0
2	2.5	.80	38	1.6	15	.59	2.0	1.8	1.8	1.6	1.0	.80
3	1.9	.80	44	1.6	35	.59	8.1	3.5	1.8	1.6	1.0	.80
4	2.1	.80	1.2	2.0	17	.80	36	3.0	1.8	1.6	1.0	.80
5	2.2	.80	.59	2.3	2.3	4.5	12	2.4	1.8	1.6	1.0	.80
6	2.4	.83	.59	34	6.0	3.0	11	2.2	1.8	1.4	.80	.80
7	2.2	22	.59	11	38	90	3.0	2.0	1.8	1.4	.80	.80
8	1.8	.80	.59	29	25	50	2.5	2.0	1.8	1.4	.80	.80
9	1.4	.80	.59	1.1	26	2.9	2.4	2.0	1.8	1.4	.80	.80
10	1.6	.66	.51	2.6	11	63	2.2	1.8	1.8	1.4	.80	.80
11	1.6	.69	.62	1.1	3.2	3.2	2.0	1.8	1.8	1.2	.80	.80
12	1.6	.71	1.3	.80	32	3.2	2.0	1.8	1.6	1.2	.80	.80
13	1.6	.70	.76	.80	44	67	2.0	1.8	1.6	1.2	.80	.80
14	1.1	.76	.91	.80	3.2	4.1	5.5	1.8	1.6	1.2	.80	.80
15	1.4	.77	.89	.80	2.7	41	3.5	1.8	1.6	7.5	.80	.80
16	1.6	.60	.73	.80	2.7	5.1	3.5	1.8	1.6	3.0	.80	.80
17	1.6	.69	.68	.80	2.7	3.2	3.0	1.8	1.6	2.5	.80	.80
18	1.6	1.5	.59	.80	2.1	3.2	2.5	1.8	1.6	2.0	5.0	.80
19	1.6	.70	.59	.80	35	8.0	2.4	1.8	1.6	1.8	2.5	.80
20	1.6	.68	.43	.96	2.7	3.2	2.2	1.8	1.6	1.8	2.0	.80
21	1.3	20	.43	.80	1.1	153	2.0	1.8	1.6	1.6	1.8	.80
22	.80	.85	.59	.80	.80	13	2.0	1.8	1.6	1.6	1.6	.80
23	.91	.59	1.0	1.1	.80	7.0	2.0	1.8	1.6	1.6	1.4	.80
24	1.1	1.3	.80	1.1	.59	26	13	1.8	5.0	1.4	1.4	.80
25	.83	.87	.80	.80	.43	56	3.5	1.8	3.0	1.4	1.4	.80
26	1.1	.78	.80	.84	.43	5.4	3.0	1.8	2.5	1.2	1.2	.80
27	10	.79	66	.80	.80	4.6	2.5	1.8	2.0	1.2	1.2	.80
28	20	.67	16	5.0	.59	3.0	2.4	1.8	2.0	1.2	1.2	.80
29	1.1	.73	1.1	2.5	---	2.5	2.2	1.8	1.8	1.0	1.0	.80
30	2.6	.63	1.1	.80	---	2.4	2.0	1.8	1.8	1.0	1.0	.80
31	11	---	.80	103	---	2.2	---	1.8	---	1.0	1.0	---
TOTAL	86.24	64.10	184.19	211.79	345.14	632.42	144.4	60.5	57.1	52.6	38.30	24.20
MEAN	2.78	2.14	5.94	6.83	12.3	20.4	4.81	1.95	1.90	1.70	1.24	.81
MAX	20	22	66	103	44	153	36	3.5	5.0	7.5	5.0	1.0
MIN	.80	.59	.43	.59	.43	.59	2.0	1.8	1.6	1.0	.80	.80
AC=FT	171	127	365	420	685	1250	286	120	113	104	76	48
(a)	.34	.50	1.42	1.23	1.72	4.61	1.21	.03	0	.30	.06	.03
(b)	.97	1.11	3.30	3.10	4.56	7.70	1.93	.15	.17	.63	.33	.02

CAL YR 1974 TOTAL 3038.09 MEAN 8.32 MAX 251 MIN .43 AC=FT 6030  
WTR YR 1975 TOTAL 1900.98 MEAN 5.21 MAX 153 MIN .43 AC=FT 3770

Date	Time	Peak discharge (base, 600 ft <sup>3</sup> /s)	G.H.	Discharge	Date	Time	G.H.	Discharge	a Precipitation, in inches, at San Bruno Mt. gage.
1-31	1600	7.43	906	3-13	unknown	--	--	unknown	b Precipitation, in inches, at Skyline College gage (formerly at site at Coast Guard Radio station).
2-3	2230	6.84	715	3-21	1745	7.26	850		
3-7	unknown	--	unknown	3-25	0100	7.27	853		

## 11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.--Continued

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

Sediment records: October 1965 to current year (seasonal record only for water years 1972 to current year).

## EXTREMES.--Current year:

Sediment concentrations: Maximum daily, 680 mg/l Feb. 13; minimum daily, 5 mg/l Jan. 16.

Sediment discharge: Maximum daily, 913 tons (838 tonnes) Mar. 21; minimum daily, (0.01 tonne) Dec. 20, 21, Jan. 15, 16.

## Period of record:

Sediment concentrations: Maximum daily, 19,800 mg/l Jan. 21, 1967; minimum daily, 2 mg/l Dec. 3, 1968.

Sediment discharge: Maximum daily, 26,900 tons (24,400 tonnes) Jan. 21, 1967; minimum daily, 0 tons (0 tonnes) Nov. 11-13, 1967, May 29, June 2, 1969.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

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

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

OCTOBER				NOVEMBER				DECEMBER	
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.1	20	.11	.80	50	.11	.61	20	.03
2	2.5	31	.25	.80	45	.10	38	238	43
3	1.9	20	.10	.80	40	.09	44	242	81
4	2.1	20	.11	.80	35	.08	1.2	72	.27
5	2.2	20	.12	.80	30	.06	.59	35	.06
6	2.4	25	.16	.83	30	.07	.59	19	.03
7	2.2	20	.12	27	149	49	.59	18	.03
8	1.8	20	.10	.80	40	.09	.59	16	.03
9	1.4	20	.08	.80	35	.08	.59	15	.02
10	1.6	20	.09	.66	30	.05	.51	14	.02
11	1.6	20	.09	.69	30	.06	.62	14	.02
12	1.6	20	.09	.71	27	.05	1.3	24	.11
13	1.6	20	.09	.70	25	.05	.76	16	.03
14	1.1	20	.06	.76	25	.05	.91	19	.06
15	1.4	20	.08	.77	25	.05	.89	15	.04
16	1.6	20	.09	.60	25	.04	.73	22	.04
17	1.6	20	.09	.69	25	.05	.68	14	.03
18	1.6	20	.09	1.5	54	.37	.59	12	.02
19	1.6	20	.09	.70	30	.06	.59	12	.02
20	1.6	20	.09	.68	25	.05	.43	12	.01
21	1.3	20	.07	20	154	25	.43	12	.01
22	.80	20	.04	.85	40	.09	.59	12	.02
23	.91	20	.05	.59	35	.06	1.0	11	.03
24	1.1	20	.06	1.3	37	.32	.80	11	.02
25	.83	20	.04	.87	45	.11	.80	10	.02
26	1.1	20	.06	.78	35	.07	.80	10	.02
27	10	97	13	.79	30	.06	66	428	222
28	20	253	31	.67	25	.05	16	147	20
29	1.1	50	.15	.73	25	.05	1.1	25	.07
30	2.6	35	1.6	.63	20	.03	1.1	18	.05
31	11	135	6.6	---	---	---	.80	16	.03
MONTH	86.24	---	54.77	64.10	---	76.40	184.19	---	367.14
JANUARY				FEBRUARY				MARCH	
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.59	16	.03	34	172	84	.74	35	.13
2	1.6	16	.07	15	166	17	.59	37	.07
3	1.6	14	.06	35	328	144	.59	25	.04
4	2.0	49	.87	17	412	26	.80	20	.04
5	2.3	27	.52	2.3	30	.19	4.5	100	1.2
6	34	146	39	6.0	87	3.3	3.0	60	.51
7	11	65	14	38	236	61	90	560	320
8	29	252	49	25	190	39	50	250	109
9	1.1	60	.18	26	211	34	2.9	40	.31
10	2.6	35	.47	11	169	9.0	63	320	109
11	1.1	40	.12	3.2	50	.43	3.2	50	.43
12	.80	20	.04	32	400	80	3.2	50	.43
13	.80	7	.02	44	680	164	67	325	277
14	.80	14	.03	3.2	60	.52	4.1	70	.77
15	.80	6	.01	2.7	43	.31	4.1	156	69
16	.80	5	.01	2.7	19	.14	5.1	86	2.2
17	.80	12	.03	2.7	20	.15	3.2	16	.14
18	.80	11	.02	2.1	20	.11	3.2	20	.17
19	.80	10	.02	35	242	53	8.0	92	5.4
20	.96	13	.05	2.7	35	.26	3.2	30	.26
21	.80	9	.02	1.1	34	.10	153	674	913
22	.80	10	.02	.80	32	.07	13	149	7.0
23	1.1	11	.03	.80	30	.06	7.0	80	2.7
24	1.1	12	.04	.59	30	.05	26	178	30
25	.80	12	.03	.43	28	.03	56	334	330
26	.84	21	.06	.43	26	.03	5.4	40	.58
27	.80	12	.03	.80	24	.05	4.6	35	.43
28	5.0	75	3.5	.59	23	.04	3.0	30	.24
29	2.5	55	.85	---	---	---	2.5	25	.17
30	.80	25	.05	---	---	---	2.4	25	.16
31	103	534	634	---	---	---	2.2	25	.15
MONTH	211.79	---	743.18	345.14	---	716.84	632.42	---	2180.53

TOTAL DISCHARGE FOR PERIOD OCT. 1, 1974 TO MAR. 31, 1975 (CFS-DAYS)

1523.88

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR PERIOD OCT. 1, 1974 TO MAR. 31, 1975 (TONS)

4138.86

11162720 COLMA CREEK AT SOUTH SAN FRANCISCO, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (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.										
27...	1300	12.0	75	178	36	--	--	--	--	--
27...	1545	10.0	163	729	321	31	40	48	56	63
JAN.										
06...	1515	13.0	27	108	7.9	--	--	--	--	--
28...	1655	12.0	7.3	110	2.2	--	--	--	--	--
31...	1545	6.5	886	2980	7130	15	21	27	34	43
31...	1600	7.0	702	3010	5710	16	23	30	36	43
31...	1610	7.0	610	1970	3250	21	28	37	45	53
31...	1620	7.5	540	1960	2860	24	28	36	45	53
FEB.										
01...	1520	12.0	44	408	48	--	--	--	--	--
19...	1715	--	29	161	13	--	--	--	--	--
MAR.										
21...	1500	12.0	322	710	617	23	28	35	42	51
21...	1540	11.5	497	929	1250	23	28	35	42	50
AUG.										
18...	1220	17.0	110	1110	330	32	46	61	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.									
27...	--	74	--	89	--	100	--	--	--
27...	--	69	--	84	--	99	--	100	--
JAN.									
06...	--	75	--	88	--	98	--	99	100
28...	--	92	--	93	--	95	--	100	--
31...	55	--	79	--	98	--	100	--	--
31...	54	--	74	--	98	--	100	--	--
31...	64	--	81	--	99	--	100	--	--
31...	64	--	83	--	99	--	100	--	--
FEB.									
01...	--	30	--	46	--	95	--	100	--
19...	--	88	--	96	--	99	--	100	--
MAR.									
21...	--	63	--	83	--	98	--	100	--
21...	--	61	--	82	--	98	--	100	--
AUG.									
18...	95	--	99	--	100	--	--	--	--

## REDWOOD CREEK BASIN

11162800 REDWOOD CREEK AT REDWOOD CITY, CALIF.

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

DRAINAGE AREA.--1.82 mi<sup>2</sup> (4.71 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 83.92 ft (25.579 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 1.11 ft<sup>3</sup>/s (0.0314 m<sup>3</sup>/s), 804 acre-ft/yr (991,000 m<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 264 ft<sup>3</sup>/s (7.48 m<sup>3</sup>/s) Mar. 21 (gage height, 5.78 ft or 1.762 m); minimum daily, 0.04 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) on many days.  
Period of record: Maximum discharge, 644 ft<sup>3</sup>/s (18.2 m<sup>3</sup>/s) Jan. 31, 1963 (gage height, 9.36 ft or 2.853 m), from rating curve extended above 180 ft<sup>3</sup>/s (5.10 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow and computation of maximum flow through culvert; maximum gage height, 11.55 ft (3.520 m) Nov. 29, 1970 (backwater from culvert trash racks); no flow at times.

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

REVISIONS.--WSP 1929: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.16	.08	.14	7.2	1.1	.69	.37	.21	.08	.05	.04
2	.12	.05	.84	.14	4.6	1.1	.62	.34	.22	.07	.05	.05
3	.05	.04	3.2	.13	1.3	.97	.62	.37	.22	.07	.04	.04
4	.04	.04	.36	.20	2.2	.99	1.7	.60	.17	.06	.04	.04
5	.04	.04	.10	.14	.65	1.8	5.3	.51	.22	.06	.04	.05
6	.05	.04	.09	2.4	.48	1.1	3.5	.50	.26	.06	.04	.04
7	.07	.32	.08	.39	.68	9.8	1.6	.44	.26	.06	.04	.04
8	.05	.11	.08	2.4	1.8	2.8	1.5	.44	.32	.06	.04	.05
9	.04	.07	.08	.47	15	1.4	1.1	.42	.30	.06	.04	.05
10	.04	.07	.08	.30	3.6	2.5	.78	.40	.27	.06	.05	.04
11	.04	.07	.08	.20	.96	1.4	.68	.49	.22	.06	.05	.05
12	.06	.07	.07	.17	4.4	1.2	.62	.40	.19	.06	.05	.05
13	.05	.07	.07	.17	15	11	.57	.37	.19	.06	.05	.05
14	.05	.07	.07	.17	1.8	2.8	.59	.34	.19	.06	.05	.05
15	.05	.07	.07	.15	1.4	18	.55	.34	.19	.08	.05	.06
16	.04	.08	.08	.14	1.2	8.0	.65	.33	.23	.10	.06	.05
17	.05	.09	.08	.14	1.1	2.1	.60	.31	.21	.08	.06	.05
18	.04	.09	.09	.13	1.1	1.7	.47	.30	.19	.07	.92	.05
19	.05	.08	.09	.12	1.5	1.4	.44	.30	.20	.06	.19	.04
20	.05	.09	.09	.12	1.2	1.3	.44	.31	.20	.06	.05	.05
21	.05	2.2	.09	.12	1.1	47	.44	.30	.19	.06	.04	.05
22	.05	.13	.09	.12	.98	12	.39	.30	.19	.06	.04	.06
23	.06	.08	.09	.12	1.0	3.7	.39	.30	.19	.06	.04	.05
24	.06	.07	.09	.12	1.1	2.5	.58	.29	.21	.06	.04	.05
25	.05	.08	.09	.14	1.1	20	.73	.26	.21	.06	.04	.05
26	.05	.07	.09	.13	1.1	3.1	.46	.22	.18	.06	.04	.07
27	.16	.07	5.2	.13	1.1	1.7	.43	.20	.14	.05	.04	.05
28	1.5	.07	1.2	.13	1.1	1.2	.41	.19	.11	.05	.04	.05
29	.11	.07	.23	.16	---	.96	.39	.19	.09	.05	.05	.05
30	.08	.07	.18	.14	---	.88	.41	.19	.09	.05	.05	.05
31	.51	---	.16	6.3	---	.81	---	.19	---	.06	.04	---
TOTAL	3.77	4.63	13.29	15.83	75.75	166.31	27.65	10.51	6.06	1.95	2.42	1.47
MEAN	.12	.15	.43	.51	2.71	5.36	.92	.34	.20	.063	.078	.049
MAX	1.5	2.2	5.2	6.3	15	47	5.3	.60	.32	.10	.92	.07
MIN	.04	.04	.07	.12	.48	.81	.39	.19	.09	.05	.04	.04
AC-FT	7.5	9.2	26	31	150	330	55	21	12	3.9	4.8	2.9

CAL YR 1974 TOTAL 479.07 MEAN 1.31 MAX 46 MIN .04 AC-FT 950  
WTR YR 1975 TOTAL 329.64 MEAN .90 MAX 47 MIN .04 AC-FT 654

Peak discharge (base, 100 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-9	1945	3.66	100	3-21	1845	5.78	264
3-15	2115	4.11	129	3-25	0130	4.11	129



## 11164500 SAN FRANCISQUITO CREEK AT STANFORD UNIVERSITY, CALIF.

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

DRAINAGE AREA.--37.4 mi<sup>2</sup> (96.9 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 115.75 ft (35.281 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 18.9 ft<sup>3</sup>/s (0.535 m<sup>3</sup>/s), 13,690 acre-ft/yr (16.9 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,190 ft<sup>3</sup>/s (62.0 m<sup>3</sup>/s) Mar. 21 (gage height, 6.17 ft or 1.881 m); minimum daily, 0.04 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Jan. 16-18, 21, 22.  
Period of record: Maximum discharge, 5,560 ft<sup>3</sup>/s (157 m<sup>3</sup>/s) Dec. 22, 1955 (gage height, 13.60 ft or 4.145 m); no flow at times.

REMARKS.--Records good. Flow regulated by Searsville Lake 5 mi (8 km) upstream, capacity, 952 acre-ft (1.17 hm<sup>3</sup>). Diversions of about 800 acre-ft (986,000 m<sup>3</sup>) each year above station to Los Trancos and Lagunita Canals for irrigation on Stanford University campus below station. Low flow affected by waste water from Stanford Linear Accelerator.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.15	.48	.69	1.1	31	.61	21	5.3	2.2	.59	.18	.42
2	.33	.26	2.1	1.2	62	2.4	17	5.0	1.2	.64	.44	.36
3	.21	.29	6.1	1.1	16	2.8	14	5.7	1.3	.70	.25	.32
4	.25	.24	4.9	1.1	45	2.8	30	6.1	1.1	1.1	.31	.21
5	.29	.20	1.4	1.1	17	5.6	136	5.3	.80	.84	.23	.12
6	.34	.29	.96	8.7	7.8	7.8	90	5.0	1.0	.63	.20	.16
7	.31	.37	.82	7.0	6.7	143	56	4.8	.99	.64	.40	.24
8	.45	.52	.74	16	6.8	160	44	4.7	.78	.63	.27	.34
9	.60	.30	.69	12	90	53	32	5.1	.95	.55	.13	.35
10	.26	.34	.69	5.9	60	44	23	6.2	.79	.59	.13	.62
11	.24	.30	.69	2.8	17	32	17	5.8	.77	.70	.20	.48
12	.17	.31	.78	1.6	13	24	17	5.3	1.9	.62	.19	.34
13	.10	.33	.78	.79	250	83	16	4.9	1.0	.63	.29	.40
14	.18	.52	.80	.12	79	65	13	4.4	.85	.52	.33	.50
15	.33	.47	.73	.06	34	95	14	4.0	.91	.78	.39	.62
16	.14	.54	.74	.04	21	169	14	3.5	.93	1.2	.21	.56
17	.25	.56	.74	.04	14	55	15	3.1	.66	.90	.21	.31
18	.54	.52	.75	.04	9.0	38	13	2.6	.65	.70	1.7	.24
19	.57	.51	.77	.32	5.7	30	11	2.2	.57	.60	.52	.26
20	.58	.59	.78	.05	28	26	10	1.7	.68	.50	.32	.69
21	.56	4.1	.74	.04	15	447	8.9	1.5	.60	.42	.24	.59
22	.46	2.0	.74	.04	10	440	8.1	1.4	.63	.46	.21	.69
23	.49	.90	.91	.10	8.6	103	9.7	1.5	.59	.38	.25	.73
24	.66	.67	.89	.24	7.2	69	16	1.5	.47	.38	.20	.56
25	.67	.59	.90	.34	9.9	382	20	1.2	.58	.43	.70	.61
26	.63	.59	.90	.31	6.9	100	14	1.4	.80	.26	1.0	.41
27	.43	.59	11	.33	3.9	65	11	1.5	.79	.16	.81	.35
28	1.5	.64	9.0	.12	.47	48	9.7	1.6	.69	.23	1.0	.43
29	.42	.65	2.0	.07	---	39	9.0	1.3	.58	.46	.76	.55
30	.15	.69	1.3	.48	---	34	7.7	1.6	.58	.39	.22	.36
31	1.3	---	1.1	17	---	28	---	2.6	---	.17	.40	---
TOTAL	13.56	19.56	56.13	80.13	874.97	2794.01	717.1	107.8	26.34	17.80	12.69	12.82
MEAN	.44	.65	1.81	2.58	31.2	90.1	23.9	3.48	.88	.57	.41	.43
MAX	1.5	4.1	11	17	250	447	136	6.2	2.2	1.2	1.7	.73
MIN	.10	.20	.69	.04	.47	.61	7.7	1.2	.47	.16	.13	.12
AC=FT	27	39	111	159	1740	5540	1420	214	52	35	25	25
CAL YR 1974 TOTAL	12340.80											
WTR YR 1975 TOTAL	4732.91											
MEAN 33.8												
MAX 1730												
MIN .08												
AC=FT 24480												
MIN .04												
AC=FT 9390												

Peak discharge (base, 700 ft<sup>3</sup>/s).--Mar. 21 (2030) 2,190 ft<sup>3</sup>/s (6.17 ft); Mar. 25 (0315) 851 ft<sup>3</sup>/s (4.11 ft).

## MATADERO CREEK BASIN

11166000 MATADERO CREEK AT PALO ALTO, CALIF.

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

DRAINAGE AREA.--7.24 mi<sup>2</sup> (18.75 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 22.07 ft (6.727 m) above mean sea level. Prior to Sept. 25, 1958, at site 150 ft (46 m) downstream at different datum.

AVERAGE DISCHARGE.--23 years, 1.85 ft<sup>3</sup>/s (0.0524 m<sup>3</sup>/s), 1,340 acre-ft/yr (1.65 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 272 ft<sup>3</sup>/s (7.70 m<sup>3</sup>/s) Mar. 21 (gage height, 2.61 ft or 0.796 m); minimum daily, 0.04 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Sept. 11, 12, 16.

Period of record: Maximum discharge, 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s) Feb. 27, 1973 (gage height, 5.57 ft or 1.698 m), from rating curve extended above 150 ft<sup>3</sup>/s (4.25 m<sup>3</sup>/s) on basis of step-backwater computations at gage heights 3.68 ft (1.122 m) and 5.33 ft (1.625 m); maximum gage height, 9.88 ft (3.011 m) Dec. 23, 1955, site and datum then in use (backwater from culvert); no flow at times.

REMARKS.--Records good except those above 200 ft<sup>3</sup>/s (5.66 m<sup>3</sup>/s), which are fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.29	.20	.52	.07	36	.18	1.2	.02	.18	.10	.31	.12
2	.52	.25	5.1	.10	14	.39	1.0	.35	.18	.17	.26	.10
3	.18	.47	8.7	.12	2.2	.25	1.2	.47	.21	.13	.26	.11
4	.21	.28	.81	.12	20	.44	9.8	.39	.23	.13	.24	.12
5	.51	.19	.15	.09	2.2	5.3	9.2	.38	.22	.16	.30	.12
6	.59	.13	.17	2.3	1.7	1.0	3.2	.41	.24	.14	.26	.10
7	.51	.84	.37	.18	.85	58	2.2	.42	.17	.14	.25	.08
8	.25	.16	.51	3.0	3.4	31	2.5	.42	.18	.19	.31	.08
9	.21	.19	.36	.37	22	5.1	1.4	.39	.16	.23	.28	.06
10	.17	.31	.18	.11	10	3.9	1.1	.37	.17	.25	.21	.06
11	.22	.23	.21	.10	2.4	1.9	.97	.28	.17	.28	.43	.04
12	.34	.17	.22	.15	3.9	1.2	.86	.24	.16	.25	.27	.04
13	.76	.14	.23	.14	21	22	.77	.38	.18	.24	.28	.06
14	.42	.14	.29	.07	3.2	5.4	.91	.23	.18	.31	.33	.06
15	.24	.13	.42	.10	1.6	24	.66	.20	.17	.98	.29	.06
16	.23	.19	.24	.09	.90	23	1.5	.22	.14	.23	.25	.04
17	.18	.37	.13	.10	.62	4.4	1.1	.42	.14	.33	.23	.08
18	.21	.31	.11	.10	.56	2.5	.60	.28	.16	.30	4.9	.08
19	.24	.17	.14	.10	.57	1.9	.64	.46	.28	.31	.21	.10
20	.51	.16	.13	.13	.54	1.5	.65	.23	.17	.23	.11	.08
21	.32	4.9	.11	.09	.38	52	.58	.29	.16	.26	.10	.10
22	.15	.20	.17	.09	.33	28	.56	.31	.16	.27	.11	.08
23	.18	.17	.19	.09	.31	6.2	.52	.26	.17	.25	.10	.08
24	.16	.42	.12	.09	.31	4.0	1.5	.43	.20	.28	.08	.11
25	.20	.59	.10	.09	.28	31	1.0	.29	.14	.26	.08	.13
26	.19	.42	.11	.12	.25	4.5	.86	.21	.14	.29	1.3	.11
27	1.2	.51	16	.14	.24	2.7	.49	.21	.18	.33	.57	.11
28	5.7	.54	2.5	.11	.19	2.2	.50	.29	.15	.24	.14	.10
29	.39	.52	.21	.09	---	2.2	.60	.24	.15	.30	.11	.11
30	.65	.52	.18	.08	---	2.0	.44	.25	.11	.32	.11	.13
31	2.5	---	.13	22	---	1.6	---	.23	---	.27	.11	---
TOTAL	18.43	13.82	38.81	30.53	149.93	329.76	48.51	10.37	5.25	8.17	12.79	2.65
MEAN	.59	.46	1.25	.98	5.35	10.6	1.62	.33	.18	.26	.41	.088
MAX	5.7	4.9	16	22	36	58	9.8	.82	.28	.98	4.9	.13
MIN	.15	.13	.10	.07	.19	.18	.44	.20	.11	.10	.08	.04
AC-FT	37	27	77	61	297	654	96	21	10	16	25	5.3

CAL YR 1974 TOTAL 764.40 MEAN 2.09 MAX 114 MIN .10 AC-FT 1520  
WTR YR 1975 TOTAL 669.02 MEAN 1.83 MAX 58 MIN .04 AC-FT 1330

Peak discharge (base, 200 ft<sup>3</sup>/s).--Mar. 21 (2000) 272 ft<sup>3</sup>/s (2.61 ft).

## 11166480 STEVENS CREEK RESERVOIR NEAR MONTE VISTA, CALIF.

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

DRAINAGE AREA.--17.3 mi<sup>2</sup> (44.8 km<sup>2</sup>).

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

GAGE.--Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District).

EXTREMES (at 0800).--Current year: Maximum contents observed, 3,610 acre-ft (4.45 hm<sup>3</sup>) Mar. 26 (elevation, 534.97 ft or 163.059 m); minimum observed, 453 acre-ft (559,000 m<sup>3</sup>) Oct. 28 (elevation, 481.57 ft or 146.783 m).  
Period of record: Maximum contents observed, 4,100 acre-ft (5.06 hm<sup>3</sup>) Dec. 26, 1955 (elevation, 538.61 ft or 164.168 m); maximum elevation, 539.70 ft (164.501 m) Mar. 16, 1967; no contents at times in most years.

REMARKS.--Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,600 acre-ft (4.44 hm<sup>3</sup>) between elevations 444.9 ft (135.61 m), invert of outlet tunnel and 534.8 ft (163.01 m), crest of spillway. Water released down Stevens Creek for irrigation and ground-water recharge by percolation.

COOPERATION.--Record of contents furnished by Santa Clara Valley Water District.

REVISIONS (WATER YEARS).--WRD Calif. 1970: 1969.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY  
STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Contents
Sept. 30, 1974.....	906
Oct. 31.....	462
Nov. 30.....	517
Dec. 31.....	748
Jan. 31, 1975.....	1,230
Feb. 28.....	3,180
Mar. 31.....	3,580
Apr. 30.....	3,490
May 31.....	3,430
June 30.....	2,780
July 31.....	2,120
Aug. 31.....	1,660
Sept. 30.....	926

NOTE.--Contents at 0800 on first day of following month.

## RESERVOIRS IN GUADALUPE RIVER BASIN, CALIF.

- 11166670 ALMADEN RESERVOIR.--Lat 37°09'54", long 121°49'39", in San Vicente Grant, Santa Clara County, at center of dam on Alamitos Creek, 0.7 mi (1.1 km) southwest of New Almaden, and 7 mi (11 km) south of Edenvale. Drainage area, 11.9 mi<sup>2</sup> (30.8 km<sup>2</sup>). Period of record, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District). Extremes for current year: Maximum contents observed, 1,790 acre-ft (2.21 hm<sup>3</sup>) Mar. 26 (elevation, 607.20 ft or 185.074 m); minimum observed, 262 acre-ft (323,000 m<sup>3</sup>) Nov. 21 (elevation, 565.11 ft or 172.246 m). Extremes for period of record: Maximum contents observed, 2,150 acre-ft (2.65 hm<sup>3</sup>) Jan. 31, 1963 (elevation 610.24 ft or 186.001 m, from floodmarks); no contents at times in each year except 1942-43, 1962-63, 1966, 1968-70, 1973-75.
- Reservoir is formed by earthfill dam completed in 1936. Capacity, 1,780 acre-ft (2.19 hm<sup>3</sup>) between elevations 533.1 ft (162.49 m), invert of outlet tunnel and 606.9 ft (184.98 m), crest of spillway. Water released down Alamitos Creek for ground-water recharge by percolation and minor irrigation. Up to 100 ft<sup>3</sup>/s (2.83 m<sup>3</sup>/s) diverted to Calero Reservoir at times. Record of contents furnished by Santa Clara Valley Water District.
- 11166740 CALERO RESERVOIR.--Lat 37°11'00", long 121°47'28", in San Vicente Grant, Santa Clara County, at center of dam on Arroyo Calero, 1.7 mi (2.7 km) northeast of New Almaden, and 6 mi (10 km) southeast of Edenvale. Drainage area, 6.96 mi<sup>2</sup> (18.03 km<sup>2</sup>). Period of record, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District). Extremes for current year: Maximum contents observed, 10,080 acre-ft (12.4 hm<sup>3</sup>) Apr. 21 (elevation, 483.27 ft or 147.301 m); minimum observed, 4,630 acre-ft (5.71 hm<sup>3</sup>) Jan. 27 (elevation, 463.44 ft or 141.257 m). Extremes for period of record: Maximum contents observed, 10,520 acre-ft (13.0 hm<sup>3</sup>) Apr. 7, 1967 (elevation, 485.21 ft or 147.892 m); no contents at times in each year except 1942-45, 1963-75.
- Reservoir is formed by earthfill dam completed to crest elevation 482.55 ft (147.081 m) in 1936 and raised to 483.5 ft (147.37 m) in 1962. Capacity, 10,160 acre-ft (12.5 hm<sup>3</sup>) between elevations 393.7 ft (120.00 m), center of outlet tunnel and 483.5 ft (147.37 m), crest of spillway. Water released down Arroyo Calero for ground-water recharge by percolation and minor irrigation. Up to 100 ft<sup>3</sup>/s (2.83 m<sup>3</sup>/s) diverted from Almaden Reservoir to Calero Reservoir at times. Record of contents furnished by Santa Clara Valley Water District.
- 11167370 GUADALUPE RESERVOIR.--Lat 37°11'57", long 121°52'42", in Los Capitancillos Grant, Santa Clara County, at center of dam on Guadalupe Creek, 3.6 mi (5.8 km) northwest of New Almaden, and 5.0 mi (8.0 km) southeast of Los Gatos. Drainage area, 5.97 mi<sup>2</sup> (15.5 km<sup>2</sup>). Period of record, January 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District). Extremes for current year: Maximum contents observed, 3,320 acre-ft (4.09 hm<sup>3</sup>) May 7 (elevation, 611.79 ft or 186.474 m); minimum observed, 293 acre-ft (361,000 m<sup>3</sup>) Jan. 31 (elevation, 543.61 ft or 165.692 m). Extremes for period of record: Maximum contents observed, 3,750 acre-ft (4.62 hm<sup>3</sup>) Apr. 4, 1974 (elevation, 617.38 ft or 188.177 m); maximum elevation, 619.26 ft (188.750 m) Feb. 1, 1963, from floodmarks; no contents at times in each year except 1941-43, 1962-63, 1966-67, 1974-75.
- Reservoir is formed by earthfill dam completed in 1936. Capacity, 3,740 acre-ft (4.61 hm<sup>3</sup>) between elevations 506.8 ft (154.47 m), invert of outlet tunnel and 617.3 ft (188.15 m), crest of spillway. Water released down Guadalupe Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.
- 11167950 LAKE ELSMAN.--Lat 37°07'51", long 121°55'47", in SE<sup>1</sup>/<sub>4</sub> sec.23, T.9 S., R.1 W., Santa Clara County, at center of Austrian Dam on Los Gatos Creek, and 7.3 mi (11.7 km) southeast of Los Gatos. Drainage area, 9.79 mi<sup>2</sup> (25.4 km<sup>2</sup>). Period of record, February 1951 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by San Jose Water Works). Extremes for current year: Maximum contents observed, 6,300 acre-ft (7.77 hm<sup>3</sup>) Apr. 30 (elevation, 1,112.2 ft or 339.00 m); no contents Nov. 30. Extremes for period of record: Maximum contents observed, 6,640 acre-ft (8.19 hm<sup>3</sup>) Jan. 31, 1963 (elevation, 1,115.1 ft or 339.88 m); no contents Nov. 30, 1968, Nov. 5, 1969, Oct. 31, 1972, Nov. 30, 1974.
- Reservoir is formed by earthfill dam completed in 1951; topped by a 2-foot (0.6-m) inflatable surcharge dam since 1956. Usable capacity, 6,280 acre-ft (7.74 hm<sup>3</sup>) between elevations 944 ft (287.7 m), elevation of outlet gates and 1,112 ft (338.9 m), top of 2-foot (0.6-m) inflatable surcharge dam. Dead storage, 60 acre-ft (74,000 m<sup>3</sup>). Water released down Los Gatos Creek for domestic and industrial use. Record of contents furnished by San Jose Water Works.
- 11167980 LEXINGTON RESERVOIR.--Lat 37°12'06", long 121°59'17", in SE<sup>1</sup>/<sub>4</sub> sec.29, T.8 S., R.1 W., Santa Clara County, at center of dam on Los Gatos Creek, and 1.7 mi (2.7 km) south of Los Gatos. Drainage area, 37.0 mi<sup>2</sup> (95.8 km<sup>2</sup>). Period of record, December 1952 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District). Extremes for current year: Maximum contents observed, 12,520 acre-ft (15.4 hm<sup>3</sup>) May 1 (elevation, 627.99 ft or 191.411 m); no contents Sept. 4-30. Extremes for period of record: Maximum contents observed, 23,190 acre-ft (28.6 hm<sup>3</sup>) Mar. 16, 1967 (elevation, 654.00 ft or 199.339 m); no contents at times in each year except 1963, 1966-74.
- Reservoir is formed by earthfill dam completed in 1952. Capacity, 20,210 acre-ft (24.9 hm<sup>3</sup>) between elevations 519 ft (158.2 m), invert at outlet tunnel and 649.9 ft (198.09 m), crest of spillway. Dead storage, 31 acre-ft (38,200 m<sup>3</sup>). Water released down Los Gatos Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY  
STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Almaden Reservoir a	Calero Reservoir a	Guadalupe Reservoir a	Lake Elzman b	Lexington Reservoir a
Sept. 30, 1974.....	302	5,700	1,220	1,560	5,820
Oct. 31.....	300	5,340	878	276	5,040
Nov. 30.....	273	5,090	569	0	4,110
Dec. 31.....	392	4,850	443	153	3,870
Jan. 31, 1975.....	539	4,790	393	463	3,250
Feb. 28.....	578	7,940	1,590	2,620	6,670
Mar. 31.....	1,750	9,970	2,860	5,330	11,390
Apr. 30.....	1,770	10,050	3,310	6,300	12,520
May 31.....	1,560	9,480	3,250	5,820	11,360
June 30.....	1,600	8,280	2,870	5,070	8,770
July 31.....	1,340	7,370	2,410	3,850	4,440
Aug. 31.....	991	7,070	1,290	2,680	215
Sept. 30.....	625	6,780	417	1,430	0

a Contents at 0800 on first day of following month.

b Contents at 0800 on last day of month.

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LOCATION.--Lat 37°20'04", long 121°53'54", Santa Clara County, on right bank at San Jose, 100 ft (30 km) downstream from Los Gatos Creek.

PERIOD OF RECORD.--October 1929 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to 1945, published as Guadalupe Creek at San Jose.

EXTREMES.--Current year: Maximum discharge, 2,320 ft<sup>3</sup>/s (65.7 m<sup>3</sup>/s) Mar. 7 (gage height, 5.56 ft or 1.695 m); minimum daily, 0.26 ft<sup>3</sup>/s (0.007 m<sup>3</sup>/s) Oct. 26.  
Period of record: Maximum discharge, 9,150 ft<sup>3</sup>/s (259 m<sup>3</sup>/s) Apr. 2, 1958 (gage height, 16.55 ft or 5.044 m); no flow many days in most years.

REMARKS.--Records good. Flow regulated by Lexington Reservoir 12 mi (19 km) upstream and Calero, Almaden, Guadalupe Reservoirs, and Lake Elsan given elsewhere in this report, with water released during summer for percolation in spreading basins on tributaries. During current year, 14,860 acre-ft (18.3 km<sup>3</sup>) was diverted by San Jose Water Works for urban use and 1,150 acre-ft (1.42 km<sup>3</sup>) was diverted by Santa Clara Valley Water District into Alamitos percolation ponds from Coyote Creek basin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	13	7.4	1.7	520	2.7	42	2.3	3.0	3.5	9.3	3.9
2	17	6.0	37	1.9	436	2.7	41	2.0	3.2	4.4	6.6	4.4
3	4.2	3.5	210	1.9	95	2.0	60	3.0	4.0	4.2	3.4	4.9
4	2.0	2.8	51	4.6	225	3.7	46	2.7	3.0	4.9	2.0	8.0
5	.68	3.2	15	2.5	68	40	251	1.9	7.2	6.2	2.8	7.8
6	.34	5.6	7.8	27	45	17	115	1.7	3.4	6.8	2.2	5.1
7	.50	34	4.0	6.0	54	1020	80	1.7	2.8	6.4	2.7	7.2
8	1.1	14	2.7	25	72	454	52	1.5	2.0	6.0	2.3	6.8
9	1.2	4.6	2.7	7.1	255	128	38	1.5	1.9	3.7	1.5	7.2
10	1.5	4.0	3.0	3.5	200	76	27	2.2	1.9	5.8	1.1	7.4
11	.68	3.5	1.5	3.5	54	54	11	2.5	1.7	7.8	4.2	9.8
12	.58	3.4	.68	2.0	6.6	39	35	1.5	1.7	2.5	5.5	10
13	.42	2.5	.50	1.5	131	221	36	2.2	2.0	2.2	2.5	9.5
14	.42	1.4	.50	3.7	63	82	45	3.2	3.5	1.5	2.8	8.2
15	.58	2.5	4.6	2.7	16	51	39	2.1	2.0	5.5	3.7	7.0
16	.68	1.7	5.3	1.5	16	203	36	8.7	1.4	4.0	4.0	5.7
17	.58	.68	6.0	1.5	14	62	46	9.1	1.9	2.0	6.8	5.9
18	.58	1.5	2.3	1.7	12	36	34	3.9	1.4	1.4	142	6.0
19	.58	1.5	5.5	1.9	10	25	30	4.7	1.7	1.1	22	5.6
20	.68	1.5	.90	1.7	10	19	24	4.0	1.7	1.2	13	5.2
21	.58	54	.50	1.7	8.7	193	22	6.0	1.7	.90	7.2	7.6
22	.68	6.2	2.2	1.9	6.6	316	22	3.2	5.1	1.1	9.5	6.4
23	.50	.90	5.8	2.3	6.0	151	24	6.4	11	1.4	9.3	7.2
24	.50	.58	1.1	3.4	5.5	166	19	2.0	12	3.2	9.8	5.8
25	.42	1.5	1.2	2.8	6.0	163	8.4	4.6	8.2	6.8	7.6	5.4
26	.26	.58	5.5	1.4	4.6	98	3.2	3.9	4.7	2.2	4.0	6.2
27	7.8	.58	172	1.4	9.8	86	2.5	2.2	3.7	2.2	2.2	7.0
28	98	6.4	98	2.0	5.5	82	2.2	1.9	2.7	1.5	3.5	7.8
29	12	6.8	18	5.1	---	60	2.0	1.9	2.5	2.8	7.8	8.9
30	3.7	7.2	13	3.2	---	45	2.2	2.7	2.0	4.4	3.2	8.4
31	54	---	4.4	211	---	42	---	2.3	---	8.4	3.0	---
TOTAL	214.64	195.62	690.08	339.1	2355.3	3940.1	1195.5	99.5	105.0	116.00	307.5	206.3
MEAN	6.92	6.52	22.3	10.9	84.1	127	39.9	3.21	3.50	3.74	9.92	6.88
MAX	98	54	210	211	520	1020	251	9.1	12	8.4	142	10
MIN	.26	.58	.50	1.4	4.6	2.0	2.0	1.5	1.4	.90	1.1	3.9
AC=FT	426	388	1370	673	4670	7820	2370	197	208	230	610	409
CAL YR 1974	TOTAL	18250.53	MEAN	50.0	MAX	1550	MIN	.26	AC=FT	36200		
WTR YR 1975	TOTAL	9764.64	MEAN	26.8	MAX	1020	MIN	.26	AC=FT	19370		

## GUADALUPE RIVER BASIN

11169500 SARATOGA CREEK AT SARATOGA, CALIF.

LOCATION.--Lat 37°15'16", long 122°02'18", in Quito Grant, Santa Clara County, on right bank on upstream side of private road bridge, 0.5 mi (0.8 km) southwest of Saratoga, and 0.7 mi (1.1 km) downstream from diversion dam.

DRAINAGE AREA.--9.22 mi<sup>2</sup> (23.88 km<sup>2</sup>).

PERIOD OF RECORD.--October 1933 to current year. Prior to October 1951, published as Campbell Creek at Saratoga.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 500 ft (152 m), from topographic map. Prior to Dec. 6, 1968, at site 40 ft (12 m) downstream at different datum.

AVERAGE DISCHARGE (adjusted for diversion).--42 years, 10.1 ft<sup>3</sup>/s (0.286 m<sup>3</sup>/s), 7,320 acre-ft/yr (9.03 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 398 ft<sup>3</sup>/s (11.3 m<sup>3</sup>/s) Mar. 7 (gage height, 4.61 ft or 1.405 m); no flow Oct. 14-17, 22.

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

REMARKS.--Records fair except those below 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s), which are poor. Water is diverted for municipal use by San Jose Water Works at diversion dam above station.

REVISIONS (WATER YEARS).--WSP 1445: 1940, 1952(M). WSP 1929: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.25	.28	.34	120	2.0	20	4.6	.42	.84	.27	.12
2	2.2	.20	1.1	.37	68	2.2	16	3.8	.47	.50	.23	.13
3	1.4	.28	18	.34	29	1.7	16	3.6	.38	.38	.23	.12
4	1.4	.28	6.7	.37	37	1.4	19	3.4	.40	.49	.22	.11
5	.15	.28	.63	.31	22	1.8	39	3.1	.46	1.0	.22	.13
6	.18	.28	.37	3.6	15	2.4	29	2.8	.47	.44	.21	.14
7	.23	.45	.31	2.4	12	179	25	2.4	.42	.39	.18	.15
8	.25	.49	.28	3.6	15	196	22	2.2	.42	.27	.18	.15
9	.49	.25	.34	.68	107	94	19	2.0	.38	.30	.20	.15
10	.86	.31	.31	.34	90	71	18	1.9	.38	.37	.21	.18
11	.52	.31	.25	.37	40	52	17	1.7	.44	.32	.24	.16
12	.12	.31	.74	.37	26	41	16	2.2	.43	.41	.16	.13
13	.06	.25	.92	.37	75	51	14	1.4	.33	.81	.16	.15
14	0	.99	.49	.37	45	40	14	1.5	.56	.89	.14	.16
15	0	.68	.31	.37	30	64	14	1.6	.44	.44	.22	.12
16	0	.74	.31	.41	22	70	14	1.2	.46	.31	.14	.29
17	0	.99	.31	.45	17	38	13	.63	.47	.20	.45	.20
18	.01	.86	.25	.41	13	33	12	.53	.50	.23	3.1	.22
19	.01	.53	.31	.49	10	30	11	.66	.94	.38	2.1	.16
20	.02	.53	.25	.41	8.5	26	9.8	.71	2.0	.38	.45	.22
21	.02	8.8	.37	.41	7.6	78	8.8	.76	.55	.31	.20	.20
22	0	2.8	.37	.45	7.0	93	8.5	.62	.64	.27	.13	.18
23	.01	2.0	.37	.41	5.7	66	8.5	.88	.56	.27	.13	.17
24	.04	1.7	.37	.41	4.0	51	11	.67	.50	.21	.13	.16
25	.06	1.7	.37	.45	3.6	81	10	.69	.34	.33	.12	.14
26	.04	1.6	.37	.45	2.9	53	8.2	1.0	.33	.22	.14	.24
27	.06	1.3	15	.63	2.6	44	7.0	.58	.32	.25	.12	.56
28	3.1	.31	14	.49	2.2	37	6.4	.44	.40	.24	.17	.53
29	.68	.34	1.1	.58	---	33	5.2	.49	.39	.23	.13	.19
30	.45	.34	.37	.49	---	29	4.8	.52	.38	.23	.11	.21
31	.53	---	.37	24	---	24	---	.45	---	.27	.14	---
TOTAL	14.39	30.15	65.52	45.14	837.1	1585.5	436.2	49.03	15.18	12.18	10.83	5.77
MEAN	.46	1.01	2.11	1.46	29.9	51.1	14.5	1.58	.51	.39	.35	.19
MAX	3.1	8.8	18	24	120	196	39	4.6	2.0	1.0	3.1	.56
MIN	0	.20	.25	.31	2.2	1.4	4.8	.44	.32	.20	.11	.11
AC-FT	29	60	130	90	1660	3140	865	97	30	24	21	11
(a)	61	56	140	158	196	211	315	335	240	193	149	100
CAL YR 1974	TOTAL	3590.61	MEAN 9.84	MAX 278	MIN 0	AC-FT 7120						
WTR YR 1975	TOTAL	3106.99	MEAN 8.51	MAX 196	MIN 0	AC-FT 6160						

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-1	1730	4.51	352	3-15	unknown	4.15	218
2-9	2100	4.31	272	3-21	1945	4.37	295
3-7	0945	4.61	398	3-25	0230	3.87	141

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

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.

LOCATION.--Lat 37°16'09", long 122°03'36", in NE¼NE¼ sec.3, T.8 S., R.2 W., Santa Clara County, on right bank at upstream side of culvert on Mt. Eden Road, 750 ft (229 m) upstream from mouth, and 1.8 mi (2.9 km) northwest of Saratoga Post Office.

DRAINAGE AREA.--0.37 mi<sup>2</sup> (0.96 km<sup>2</sup>).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 600 ft (183 m), from topographic map. Recording rain gage at Garrod Ranch 0.5 mi (0.8 km) north of gage. Altitude of gage is 950 ft (290 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 107 ft<sup>3</sup>/s (3.03 m<sup>3</sup>/s) Feb. 1 (gage height, 4.78 ft or 1.457 m); no flow many days.

Period of record: Maximum discharge, 107 ft<sup>3</sup>/s (3.03 m<sup>3</sup>/s) Feb. 1, 1975 (gage height, 4.78 ft or 1.457 m); no flow many days in each year.

REVISIONS.--Figures of maximum discharge for the water years 1973 and 1974 have been revised to 92 ft<sup>3</sup>/s (2.61 m<sup>3</sup>/s) Jan. 16, 1973 (gage height, 4.29 ft or 1.308 m) and 76 ft<sup>3</sup>/s (2.15 m<sup>3</sup>/s) Jan. 3, 1974 (gage height, 3.91 ft or 1.192 m), superseding figures published in WRD Calif., 1973 and 1974.

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

REVISED PEAK DISCHARGE.--1973: Jan. 16 (0750) 92 ft<sup>3</sup>/s or 2.61 m<sup>3</sup>/s (4.29 ft or 1.308 m); Feb. 27 (1505) 90 ft<sup>3</sup>/s or 2.55 m<sup>3</sup>/s (4.24 ft or 1.292 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.08	27	.11	.08	.04	.01			
2			0	.06	5.2	.11	.08	.04	.01			
3			.13	.06	1.0	.11	.06	.04	.01			
4			.05	.06	4.1	.11	.16	.03	.01			
5			.03	.05	1.0	.11	.67	.03	.01			
6			.02	.05	.73	.12	.25	.03	.01			
7			.01	.06	.58	16	.15	.03	.01			
8			.01	.06	1.7	8.2	.11	.03	.01			
9			.01	.06	8.1	.90	.08	.03	.01			
10			.01	.06	3.1	.38	.08	.03	.01			
11			.01	.06	.61	.20	.08	.03	.01			
12			0	.06	.61	.10	.07	.03	.01			
13			0	.06	2.9	1.3	.06	.03	.01			
14			0	.05	.65	.66	.06	.03	.01			
15			0	.05	.36	1.8	.06	.03	.01			
16			0	.05	.23	3.3	.05	.02	.01			
17			0	.05	.29	.44	.05	.02	.01			
18			0	.05	.26	.23	.05	.02	.01			
19			0	.04	.25	.15	.05	.02	0			
20			0	.04	.24	.06	.05	.02	0			
21			0	.04	.19	5.8	.04	.02	0			
22			0	.04	.19	3.7	.04	.02	0			
23			0	.04	.18	.88	.04	.02	0			
24			0	.04	.15	.48	.04	.02	0			
25			0	.04	.15	2.4	.04	.02	0			
26			0	.04	.15	.53	.04	.01	0			
27			1.3	.04	.15	.30	.04	.01	0			
28			.65	.04	.12	.17	.04	.01	0			
29			.14	.04	---	.13	.04	.01	0			
30			.11	.04	---	.10	.04	.01	0			
31		---	.08	7.4	---	.08	---	.01	---			---
TOTAL	0	0	2.56	8.91	60.19	48.96	2.70	.74	.18	0	0	0
MEAN	0	0	.083	.29	2.15	1.58	.090	.024	.006	0	0	0
MAX	0	0	1.3	7.4	27	16	.67	.04	.01	0	0	0
MIN	0	0	0	.04	.12	.06	.04	.01	0	0	0	0
AC-FT	0	0	5.1	18	119	97	5.4	1.5	.4	0	0	0
(a)	.83	.86	3.38	3.90	8.42	9.51	1.57	0	0	0	0	0

CAL YR 1974 TOTAL 85.47 MEAN .23 MAX 17 MIN 0 AC-FT 170  
WTR YR 1975 TOTAL 124.24 MEAN .34 MAX 27 MIN 0 AC-FT 246

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge	a Precipitation, in inches, at Garrod Ranch gage..
2-1	1625	4.78	107	3-7	1005	3.41	61	
2-9	2010	2.86	23	3-21	1945	3.33	56	

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1972 to current year (partial-record station).

Water temperatures: October 1972 to current year.

Sediment records: October 1972 to current year.

EXTREMES.--Current year:

Sediment concentrations: Maximum daily, 3,320 mg/l Feb. 1; minimum daily, no flow for many days.

Sediment discharge: Maximum daily, 400 tons (363 tonnes) Feb. 1; minimum daily, 0 tons (0 tonnes) on many days.

Period of record:

Sediment concentrations: Maximum daily, 3,320 mg/l Feb. 1, 1975; minimum daily, no flow for many days each year.

Sediment discharge: Maximum daily, 400 tons (363 tonnes) Feb. 1, 1975; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--Sediment table omitted for period of no flow July 1 to Sept. 30.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	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)	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- LINIT- Y AS CACO3 (MG/L)
FEB. 13...	1115	4.7	12	40	19	16	19	3.0	128	--	110
MAR. 07...	0800	19	9.5	60	15	11	13	4.1	95	0	76
APR. 03...	0850	.06	13	80	42	27	45	2.8	288	--	247

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
FEB. 13...	18	16	.2	.74	.01	.75	.78	.01	1.3	1.3	2.0
MAR. 07...	11	11	.1	1.3	.11	1.4	1.4	.66	2.2	2.9	4.3
APR. 03...	42	34	.3	.18	.01	.19	.19	.13	.40	.53	.72

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL 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)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
FEB. 13...	.24	.31	170	.23	2.16	186	76	110	8	26	.8
MAR. 07...	.90	.85	128	.17	6.57	1520	179	83	5	24	.6
APR. 03...	.31	.11	349	.47	.06	370	109	220	0	31	1.3

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOC- CI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
FEB. 13...	290	7.7	11.0	10.1	92	4.1	--	--	18	.1
MAR. 07...	202	7.2	11.0	10.1	92	9.6	--	--	44	.0
APR. 03...	578	7.9	10.0	9.9	88	5.8	8830	100	5.1	.4

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



11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)
FEB. 13...	1115	.00	.0	.00	.00	.01	.00	.00	.00	.00	.00	.00
MAR. 07...	0800	.00	.0	.00	.01	.01	.00	.00	.00	.00	.00	.00
APR. 03...	0850	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVER (UG/L)
FEB. 13...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
MAR. 07...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
APR. 03...	.00	.00	.00	--	.00	.0	0	--	.00	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BORON (B) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CO) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
FEB. 13...	1115	2	170	130	10	30	<100	.0
MAR. 07...	0800	17	160	140	<10	200	<100	.2
APR. 03...	0850	1	380	290	<10	0	<100	.0

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975 (ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	---	10.0	---	---					
2			---	---	---	---	---					
3			13.0	---	---	---	13.0					
4			14.0	---	---	---	---					
5			13.0	---	12.0	---	---					
6			---	---	10.5	---	---					
7			---	9.5	---	12.0	11.0					
8			---	10.0	13.0	---	---					
9			---	---	---	---	---					
10			12.0	---	---	---	---					
11			---	---	---	---	---					
12			---	---	---	---	---					
13			---	---	12.0	10.0	---					
14			---	---	---	---	13.0					
15			---	---	---	---	---					
16			---	---	---	---	---					
17			---	---	---	---	---					
18			---	---	---	---	---					
19			---	---	---	13.0	---					
20			---	---	---	---	---					
21			---	---	---	10.0	---					
22			---	---	---	---	---					
23			---	---	---	---	---					
24			---	---	---	---	14.0					
25			---	---	---	---	---					
26			---	---	---	---	---					
27			10.0	---	---	---	---					
28			---	---	---	---	---					
29			---	---	---	---	---					
30			---	---	---	---	---					
31			---	7.0	---	---	---					
MONTH			---	---	---	---	---					
YEAR	MAX	14.0	MIN	7.0	MEAN	11.5						

## CALABAZAS CREEK BASIN

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.--Continued  
TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							0	0	0
2							0	0	0
3							.13	238	.41
4							.05	56	.01
5							.03	23	0
6							.02	22	0
7							.01	21	0
8							.01	20	0
9							.01	20	0
10							.01	19	0
11							.01	18	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							0	0	0
22							0	0	0
23							0	0	0
24							0	0	0
25							0	0	0
26							0	0	0
27							1.3	648	5.9
28							.65	387	1.2
29							.14	30	.01
30							.11	20	.01
31				---	---	---	.08	15	0
MONTH	0	---	0	0	---	0	2.56	---	7.54

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.08	14	0	27	3320	400	.11	12	0
2	.06	12	0	5.2	759	18	.11	10	0
3	.06	12	0	1.0	240	1.1	.11	10	0
4	.06	10	0	4.1	390	5.8	.11	10	0
5	.05	10	0	1.0	150	.41	.11	10	0
6	.05	8	0	.73	53	.10	.12	10	0
7	.06	6	0	.58	34	.05	16	1860	136
8	.06	11	0	1.7	201	3.1	8.2	777	28
9	.06	10	0	8.1	534	22	.90	93	.24
10	.06	10	0	3.1	155	1.8	.38	50	.05
11	.06	8	0	.61	52	.09	.20	40	.02
12	.06	8	0	.61	40	.09	.10	35	.01
13	.06	8	0	2.9	191	1.9	1.3	92	.53
14	.05	8	0	.65	72	.13	.66	65	.12
15	.05	6	0	.36	45	.04	1.8	190	4.7
16	.05	6	0	.23	40	.02	3.3	218	3.6
17	.05	6	0	.29	45	.04	.44	70	.08
18	.05	6	0	.26	35	.02	.23	52	.03
19	.04	6	0	.25	25	.02	.15	50	.02
20	.04	6	0	.24	24	.02	.06	48	.01
21	.04	6	0	.19	22	.01	5.8	909	65
22	.04	6	0	.19	20	.01	3.7	539	7.5
23	.04	4	0	.18	18	.01	.88	109	.27
24	.04	4	0	.15	16	.01	.48	50	.06
25	.04	4	0	.15	14	.01	2.4	179	1.5
26	.04	4	0	.15	14	.01	.53	80	.11
27	.04	4	0	.15	14	.01	.30	58	.05
28	.04	4	0	.12	12	0	.17	50	.02
29	.04	4	0	---	---	---	.13	42	.01
30	.04	4	0	---	---	---	.10	34	.01
31	7.4	1240	101	---	---	---	.08	26	.01
MONTH	8.91	---	101.00	60.19	---	454.80	48.96	---	247.95

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.08	18	0	.04	6	0	.01	3	0
2	.08	12	0	.04	6	0	.01	3	0
3	.06	8	0	.04	6	0	.01	3	0
4	.16	19	.04	.03	6	0	.01	3	0
5	.67	46	.11	.03	5	0	.01	3	0
6	.25	23	.02	.03	5	0	.01	3	0
7	.15	14	.01	.03	5	0	.01	3	0
8	.11	13	0	.03	5	0	.01	3	0
9	.08	12	0	.03	5	0	.01	3	0
10	.08	11	0	.03	5	0	.01	3	0
11	.08	10	0	.03	5	0	.01	3	0
12	.07	9	0	.03	5	0	.01	3	0
13	.06	8	0	.03	5	0	.01	3	0
14	.06	7	0	.03	5	0	.01	3	0
15	.06	7	0	.03	4	0	.01	3	0
16	.05	7	0	.02	4	0	.01	3	0
17	.05	7	0	.02	4	0	.01	3	0
18	.05	7	0	.02	4	0	.01	3	0
19	.05	7	0	.02	4	0	0	0	0
20	.05	6	0	.02	4	0	0	0	0
21	.04	6	0	.02	4	0	0	0	0
22	.04	6	0	.02	4	0	0	0	0
23	.04	6	0	.02	4	0	0	0	0
24	.04	6	0	.02	4	0	0	0	0
25	.04	6	0	.02	4	0	0	0	0
26	.04	6	0	.01	3	0	0	0	0
27	.04	6	0	.01	3	0	0	0	0
28	.04	6	0	.01	3	0	0	0	0
29	.04	6	0	.01	3	0	0	0	0
30	.04	6	0	.01	3	0	0	0	0
31	---	---	---	.01	3	0	---	---	---
MONTH	2.70	---	.18	.74	---	0	.18	---	0
YEAR	124.24		811.47						

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
JAN.								
31...	1800	6.5	23	2190	136	43	54	61
31...	1855	7.0	27	6170	450	41	49	58
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
JAN.								
31...			70	79	87	96	99	100
31...			68	79	86	94	98	99

## CALABAZAS CREEK BASIN

11169580 CALABAZAS CREEK TRIBUTARY AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.--Continued  
 PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDI- MENT (MG/L)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM
DEC.									
03...	1700	13.0	.42	1420	1.6	70	85	95	98
27...	1330	10.0	.08	400	.09	72	84	89	94
FEB.									
13...	1030	12.0	4.7	263	3.3	--	--	--	--
MAR.									
07...	0745	11.0	13	2180	77	--	--	--	--
07...	0835	11.0	19	4260	219	25	31	37	42
07...	1120	13.0	34	3140	288	29	36	43	48
07...	1215	12.0	24	2530	164	23	29	33	36
07...	1400	12.5	7.0	1320	25	--	--	--	--
21...	1800	10.0	3.3	1370	12	--	--	--	--

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
DEC.								
03...	99	99	99	100	--	--	--	--
27...	96	97	97	98	99	100	--	--
FEB.								
13...	--	73	77	82	85	94	100	--
MAR.								
07...	--	61	69	80	93	98	100	--
07...	48	52	57	63	72	80	88	100
07...	53	56	61	68	78	87	98	100
07...	39	40	44	50	60	73	85	100
07...	--	37	40	54	61	70	76	100
21...	--	67	77	83	93	96	100	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
 WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
JAN.								
31...	1810	--	6	23	6.0	4.1	2	4
MAR.								
07...	0835	11.0	3	19	6.0	14	1	1
07...	1130	10.0	2	32	6.0	156	1	1
07...	1400	12.5	3	7.0	6.0	8.2	--	1

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
JAN.								
31...	21	50	66	77	87	95	100	--
MAR.								
07...	9	32	50	62	74	85	93	100
07...	3	16	37	56	73	88	96	100
07...	7	33	57	72	82	86	90	100

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.

LOCATION.--Lat 37°17'09", long 122°03'14", in NE¼NW¼ sec.35, T.7 S., R.2 W., Santa Clara County, on left bank 60 ft (18 m) upstream from culvert at Saratoga Golf Course, 0.2 mi (0.3 km) downstream from small right-bank tributary, and 2.2 mi (3.5 km) northwest of Saratoga Post Office.

DRAINAGE AREA.--0.27 mi<sup>2</sup> (0.70 km<sup>2</sup>).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 600 ft (183 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 52 ft<sup>3</sup>/s (1.47 m<sup>3</sup>/s) Feb. 1 (gage height, 4.93 ft or 1.503 m); no flow for several months.

Period of record: Maximum discharge, 52 ft<sup>3</sup>/s (1.47 m<sup>3</sup>/s) Feb. 1, 1975 (gage height, 4.93 ft or 1.503 m); no flow for several months in each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	6.7	.09	.10	.03				
2			0	.01	2.3	.10	.10	.04				
3			0	.01	1.1	.10	.08	.03				
4			0	.01	1.7	.08	.13	.04				
5			0	.01	1.1	.11	.20	.04				
6			0	.01	.70	.10	.08	.04				
7			0	.01	.51	6.2	.08	.04				
8			0	.01	.60	4.9	.06	.03				
9			0	.01	2.1	1.1	.06	.03				
10			0	.01	1.4	.39	.06	.03				
11			0	0	.38	.15	.05	.03				
12			0	0	.25	.09	.05	.01				
13			0	0	.60	.48	.04	.01				
14			0	0	.43	.33	.04	0				
15			0	0	.27	.63	.04	.01				
16			0	0	.20	1.7	.04	.01				
17			0	0	.19	.57	.05	0				
18			0	0	.16	.22	.04	0				
19			0	0	.13	.16	.04	0				
20			0	0	.08	.13	.04	0				
21			0	0	.10	.92	.04	0				
22			0	0	.13	1.6	.04	0				
23			0	0	.12	.60	.04	0				
24			0	0	.13	.30	.05	0				
25			0	0	.11	.92	.05	0				
26			0	0	.10	.43	.04	0				
27			.04	0	.09	.25	.04	0				
28			.02	0	.09	.20	.04	0				
29			.01	0	---	.20	.03	0				
30			0	0	---	.13	.04	0				
31		---	.01	.43	---	.13	---	0	---			---
TOTAL	0	0	.08	.52	21.77	23.31	1.79	.42	0	0	0	0
MEAN	0	0	.003	.017	.78	.75	.060	.014	0	0	0	0
MAX	0	0	.04	.43	6.7	6.2	.20	.04	0	0	0	0
MIN	0	0	0	0	.08	.08	.03	0	0	0	0	0
AC-FT	0	0	.2	1.0	43	46	3.6	.8	0	0	0	0
CAL YR 1974	TOTAL 34.26	MEAN .094	MAX 3.6	MIN 0	AC-FT 68							
WTR YR 1975	TOTAL 47.89	MEAN .13	MAX 6.7	MIN 0	AC-FT 95							

Peak discharge (base, 10 ft<sup>3</sup>/s).--Feb. 1 (1640) 52 ft<sup>3</sup>/s (4.93 ft); Mar. 7 (1045) 16 ft<sup>3</sup>/s (4.25 ft).

## CALABAZAS CREEK BASIN

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.--Continued

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

## EXTREMES.--Current year:

Sediment concentrations: Maximum daily, 4,620 mg/l Feb. 1; minimum daily, no flow for many days.  
 Sediment discharge: Maximum daily, 220 tons (200 tonnes) Feb. 1; minimum daily, 0 tons (0 tonnes) on many days.

## Period of record:

Sediment concentrations: Maximum daily, 6,040 mg/l Jan. 16, 1973; minimum daily, no flow for many days each year.  
 Sediment discharge: Maximum daily, 319 tons (289 tonnes) Jan. 16, 1973; minimum daily, 0 tons (0 tonnes) on many days each year.

REMARKS.--Sediment table omitted for period of no flow during July 1 to Sept. 30.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS 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)	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- LITY AS CACO3 (MG/L)
FEB. 13...	1230	.92	18	70	16	28	16	2.6	176	--	146
MAR. 07...	0610	6.7	11	60	17	14	8.2	2.9	98	0	80
APR. 03...	0930	.08	21	30	60	56	36	2.9	402	--	310

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
FEB. 13...	18	20	.1	.62	.00	.62	.64	.04	.73	.77	1.4
MAR. 07...	8.0	12	.1	1.4	.19	1.6	1.6	1.0	5.1	6.1	7.7
APR. 03...	44	54	.3	.97	.01	.98	.97	.01	.12	.13	1.1

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL 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)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
FEB. 13...	.13	.23	208	.28	.52	235	108	160	11	18	.6
MAR. 07...	--	--	129	.18	2.33	2760	331	100	20	15	.4
APR. 03...	.04	.05	477	.65	.10	472	159	380	51	17	.8

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
FEB. 13...	381	7.9	11.0	8.5	77	3.5	--	--	10	.2
MAR. 07...	207	7.4	10.0	10.1	89	6.2	--	--	77	.0
APR. 03...	870	8.2	9.0	10.8	93	4.1	190	43	3.0	.1

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-EPOXIDE (UG/L)
FEB. 13...	1230	.00	.0	.00	.00	.00	.00	.00	.00	.00	.00	.00
MAR. 07...	0610	.00	.0	.00	.00	.01	.01	.00	.00	.00	.00	.00
APR. 03...	0930	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
FEB. 13...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
MAR. 07...	.00	.00	.00	.00	.00	.0	0	.00	.00	.00	.00
APR. 03...	.00	.00	.00	--	.00	.0	0	--	.00	.00	.00

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BORON (B) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
FEB. 13...	1230	4	80	50	20	0	<100	.1
MAR. 07...	0610	22	90	90	10	450	100	--
APR. 03...	0930	0	100	50	<10	0	<100	.1

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

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

## CALABAZAS CREEK BASIN

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							0	0	0
2							0	0	0
3							0	0	0
4							0	0	0
5							0	0	0
6							0	0	0
7							0	0	0
8							0	0	0
9							0	0	0
10							0	0	0
11							0	0	0
12							0	0	0
13							0	0	0
14							0	0	0
15							0	0	0
16							0	0	0
17							0	0	0
18							0	0	0
19							0	0	0
20							0	0	0
21							0	0	0
22							0	0	0
23							0	0	0
24							0	0	0
25							0	0	0
26							0	0	0
27							.04	50	.01
28							.02	26	0
29							.01	5	0
30							0	0	0
31				---	---	---	.01	5	0
MONTH	0	---	0	0	---	0	.08	---	.01

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	6.7	4620	220	.09	10	0
2	.01	5	0	2.3	1920	15	.10	10	0
3	.01	5	0	1.1	264	.93	.10	10	0
4	.01	5	0	1.7	451	2.3	.08	10	0
5	.01	5	0	1.1	50	.15	.11	16	.01
6	.01	5	0	.70	50	.09	.10	16	0
7	.01	5	0	.51	40	.06	6.2	2980	66
8	.01	5	0	.60	257	.99	4.9	669	13
9	.01	5	0	2.1	1270	9.3	1.1	65	.19
10	.01	5	0	1.4	526	2.5	.39	50	.05
11	0	0	0	.38	64	.07	.15	30	.01
12	0	0	0	.25	35	.02	.09	20	0
13	0	0	0	.60	51	.11	.48	184	.45
14	0	0	0	.43	16	.02	.33	129	.12
15	0	0	0	.27	15	.01	.63	413	3.6
16	0	0	0	.20	14	.01	1.7	521	2.9
17	0	0	0	.19	14	.01	.57	446	1.0
18	0	0	0	.16	12	.01	.22	70	.04
19	0	0	0	.13	12	0	.16	50	.02
20	0	0	0	.08	12	0	.13	45	.02
21	0	0	0	.10	12	0	.92	852	9.2
22	0	0	0	.13	12	0	1.6	216	1.2
23	0	0	0	.12	10	0	.60	60	.10
24	0	0	0	.13	10	0	.30	53	.05
25	0	0	0	.11	10	0	.92	133	.48
26	0	0	0	.10	10	0	.43	38	.04
27	0	0	0	.09	10	0	.25	40	.03
28	0	0	0	.09	10	0	.20	33	.02
29	0	0	0	---	---	---	.20	26	.01
30	0	0	0	---	---	---	.13	22	.01
31	.43	532	2.3	---	---	---	.13	17	.01
MONTH	.52	---	2.30	21.77	---	251.58	23.31	---	98.56



CALABAZAS CREEK BASIN

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11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.10	16	0	.03	60	0			
2	.10	16	0	.04	76	.01			
3	.08	10	0	.03	70	.01			
4	.13	134	.09	.04	65	.01			
5	.20	155	.12	.04	60	.01			
6	.08	50	.01	.04	55	.01			
7	.08	60	.01	.04	50	.01			
8	.06	70	.01	.03	45	0			
9	.06	86	.01	.03	40	0			
10	.06	70	.01	.03	35	0			
11	.05	60	.01	.03	30	0			
12	.05	50	.01	.01	25	0			
13	.04	40	0	.01	15	0			
14	.04	30	0	0	0	0			
15	.04	20	0	.01	10	0			
16	.04	8	0	.01	5	0			
17	.05	40	.01	0	0	0			
18	.04	72	.01	0	0	0			
19	.04	68	.01	0	0	0			
20	.04	63	.01	0	0	0			
21	.04	40	0	0	0	0			
22	.04	16	0	0	0	0			
23	.04	28	0	0	0	0			
24	.05	40	.01	0	0	0			
25	.05	32	0	0	0	0			
26	.04	25	0	0	0	0			
27	.04	50	.01	0	0	0			
28	.04	76	.01	0	0	0			
29	.03	60	0	0	0	0			
30	.04	46	.01	0	0	0			
31	---	---	---	0	0	0	---	---	---
MONTH	1.79	---	.36	.42	---	.06	0	---	0
YEAR	47.89		352.87						

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT 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
MAR.										
07...	1015	10.5	11	7260	216	30	35	43	53	65
07...	1150	11.0	8.1	1900	42	--	--	--	--	--
07...	1310	11.0	5.8	783	12	--	--	--	--	--
DATE						SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
MAR.										
07...		74	--	86	--	97	--	100	--	--
07...		--	63	--	76	--	90	--	99	100
07...		--	72	--	84	--	94	--	100	--

## CALABAZAS CREEK BASIN

11169600 PROSPECT CREEK AT SARATOGA GOLF COURSE, NEAR SARATOGA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDI- MENT (MG/L)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. FALL DIAM. % FINER THAN .062 MM
JAN.											
31...	1720	7.0	.60	1560	2.5	74	87	93	97	96	--
31...	1930	7.0	1.9	2440	13	54	65	77	88	93	--
FEB.											
01...	1645	10.0	47	22000	2790	23	29	35	44	54	64
MAR.											
07...	0550	10.0	8.1	5670	124	25	25	34	40	46	--
07...	1405	--	4.9	1080	14	--	--	--	--	--	--

DATE	TOTAL SED. SIEVE DIAM. % FINER THAN .062 MM	TOTAL SED. FALL DIAM. % FINER THAN .125 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .125 MM	TOTAL SED. FALL DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .250 MM	TOTAL SED. FALL DIAM. % FINER THAN .500 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM	TOTAL SED. FALL DIAM. % FINER THAN 1.00 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
JAN.											
31...	96	--	97	--	97	--	98	--	98	100	--
31...	95	--	98	--	99	--	100	--	--	--	--
FEB.											
01...	--	80	--	93	--	98	--	100	--	--	--
MAR.											
07...	49	--	54	--	64	--	75	--	83	88	100
07...	34	--	40	--	50	--	66	--	85	100	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM
MAR.								
07...	0555	10.0	7	6.7	12	3.5	--	3
07...	1050	10.5	10	12	11	10	3	7
07...	1350	11.0	9	5.5	8.8	5.4	1	1

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM
MAR.								
07...	31	58	64	68	76	87	100	--
07...	32	72	82	87	91	94	96	100
07...	6	20	31	44	64	84	96	100

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.

LOCATION.--Lat 37°18'03", long 122°01'32", Santa Clara County, on right bank 100 ft (30 m) upstream from Rainbow Drive, and 1.6 mi (2.6 km) south of Cupertino.

DRAINAGE AREA.--3.98 mi<sup>2</sup> (10.31 km<sup>2</sup>).

PERIOD OF RECORD.--October 1973 to current year. October 1966 to September 1973 in files of Santa Clara Valley Water District.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 265 ft (81 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 650 ft<sup>3</sup>/s (18.4 m<sup>3</sup>/s) Feb. 1 (gage height, 6.00 ft or 1.829 m); no flow many days.

Period of record: Maximum discharge, 650 ft<sup>3</sup>/s (18.4 m<sup>3</sup>/s) Feb. 1, 1975 (gage height, 6.00 ft or 1.829 m); no flow many days in each year.

REMARKS.--Records poor. No diversion above station. During current year, 2,250 acre-ft (2.77 hm<sup>3</sup>) imported from South Bay Aqueduct for percolation.

COOPERATION.--Gage-height record and four discharge measurements furnished by Santa Clara Valley Water District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	1.7	1.8	1.2	107	.19	1.9	3.3	0	1.8	.77	0
2	.78	1.7	3.0	1.2	30	.19	.20	3.2	.90	1.8	.97	0
3	1.5	1.5	5.8	1.1	3.4	.16	.20	3.3	3.1	1.8	1.0	0
4	1.5	1.5	.52	1.1	18	.13	1.2	3.3	2.8	1.8	.90	0
5	2.2	1.5	1.3	1.1	2.1	.40	5.3	3.3	2.2	1.7	.76	0
6	2.7	1.6	1.2	.61	.55	.31	1.6	3.3	2.0	1.6	.80	0
7	2.5	1.6	1.2	0	.17	.85	.91	3.2	2.0	1.5	.91	0
8	2.5	1.6	1.2	.09	2.6	.68	.57	3.2	2.0	1.6	1.1	.15
9	2.0	1.6	1.2	.18	28	12	.28	3.0	2.0	1.6	1.0	0
10	1.5	1.5	1.1	1.2	18	5.8	.13	2.9	2.0	1.7	.50	0
11	1.5	1.5	1.1	1.2	2.7	3.0	.67	2.9	2.0	1.6	0	0
12	1.5	1.5	1.0	1.1	1.0	1.6	2.8	2.9	2.0	1.6	0	0
13	1.4	1.5	1.1	1.1	11	8.8	3.9	3.0	1.9	1.6	0	0
14	1.4	1.5	1.1	1.1	1.6	5.5	4.1	3.1	1.0	1.5	0	.67
15	1.3	1.4	1.0	1.0	.56	11	4.3	2.3	0	1.4	0	4.3
16	1.2	1.6	1.1	1.0	.19	26	4.3	4.1	0	.62	0	3.9
17	1.2	1.5	1.1	1.0	.13	5.9	4.2	4.4	0	.60	0	2.7
18	1.2	1.7	1.0	1.0	.10	3.0	4.1	4.1	0	.73	.14	2.3
19	1.2	.72	1.0	.93	0	2.0	4.2	3.3	0	.50	0	1.6
20	.52	.20	1.1	.90	.10	1.3	4.1	2.8	0	.28	0	1.6
21	.85	2.1	1.0	.93	.46	33	4.1	2.2	0	.24	0	1.6
22	1.8	.66	1.0	.91	.43	27	3.9	3.3	0	.42	0	1.6
23	1.8	1.7	1.0	1.0	.40	7.6	3.9	3.0	0	1.0	0	1.6
24	1.8	1.8	1.1	.98	.37	5.0	4.1	2.4	0	1.0	0	1.6
25	1.8	1.8	1.2	.95	.27	16	4.1	2.4	0	.92	0	1.6
26	1.8	1.8	1.2	.84	.24	4.3	3.9	2.3	0	.99	0	1.7
27	1.9	1.8	1.2	.87	.22	2.5	3.8	2.3	0	.94	0	1.6
28	2.8	1.8	1.2	.43	.19	1.7	3.4	2.7	.45	.96	0	1.6
29	1.8	1.8	.44	.30	---	1.3	3.3	1.4	1.6	.77	0	1.6
30	1.6	1.8	1.3	1.4	---	.90	3.3	0	1.7	.59	0	1.6
31	1.5	---	1.2	27	---	1.8	---	0	---	1.0	0	---
TOTAL	49.53	45.98	51.56	53.72	229.78	341.38	86.76	86.9	29.65	36.16	8.85	33.32
MEAN	1.60	1.53	1.66	1.73	8.21	11.0	2.89	2.80	.99	1.17	.29	1.11
MAX	2.8	2.1	12	27	107	85	5.3	4.4	3.1	1.8	1.1	4.3
MIN	.48	.20	.44	0	0	.13	.13	0	0	.24	0	0
AC=FT	98	91	102	107	456	677	172	172	59	72	18	66

CAL YR 1974 TOTAL 955.85 MEAN 2.62 MAX 71 MIN 0 AC=FT 1900  
WTR YR 1975 TOTAL 1053.59 MEAN 2.89 MAX 107 MIN 0 AC=FT 2090

Peak discharge (base, 100 ft<sup>3</sup>/s)  
Date Time G.H. Discharge Date Time G.H. Discharge  
2-1 1730 6.00 650 3-15 2300 2.26 128  
3-7 1045 3.25 250 3-21 2030 2.71 181

## CALABAZAS CREEK BASIN

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1974 to current year (partial-record station).

Water temperatures: October 1973 to current year.

Sediment records: October 1973 to current year.

EXTREMES.--Current year:

Sediment concentrations: Maximum daily, 7,020 mg/l Feb. 1; minimum daily, no flow for many days.

Sediment discharge: Maximum daily, 4,130 tons (3,750 tonnes) Feb. 1; minimum daily, 0 tons (0 tonnes) on many days.

Period of record:

Sediment concentrations: Maximum daily, 7,020 mg/l Feb. 1, 1975; minimum daily, no flow for many days each year.

Sediment discharge: Maximum daily, 4,130 tons (3,750 tonnes) Feb. 1, 1975; minimum daily, 0 tons (0 tonnes) on many days each year.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	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- LITY AS CAC03 (MG/L)
FEB. 13...	1215	17	14	80	25	17	19	3.2	142	--	122
MAR. 07...	0620	105	7.8	50	22	8.8	13	3.2	102	0	71
APR. 03...	1000	.26	16	40	54	33	38	3.5	303	--	253

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
FEB. 13...	23	19	.2	.85	.01	.86	.82	.07	1.7	1.8	2.7
MAR. 07...	13	12	.1	.96	.34	1.3	1.2	1.4	7.7	9.1	10
APR. 03...	48	39	.3	.55	.01	.56	.53	.01	.13	.14	.70

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	TOTAL RESI- DUE (MG/L)	LOSS ON IGNI- TION (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
FEB. 13...	.60	.26	194	.26	8.90	200	85	130	16	23	.7
MAR. 07...	3.5	3.2	136	.19	38.6	8170	539	91	8	23	.6
APR. 03...	.07	.06	384	.52	.27	382	127	270	22	23	1.0

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
FEB. 13...	311	7.7	--	10.6	--	4.5	--	--	17	.3
MAR. 07...	202	7.5	11.5	10.5	96	5.2	--	--	60	.0
APR. 03...	610	8.4	9.0	11.3	97	1.9	240	220	2.7	.0

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ALDRIN (UG/L)	TOTAL CHLOR-DANE (UG/L)	TOTAL DDD (UG/L)	TOTAL DDE (UG/L)	TOTAL DDT (UG/L)	TOTAL DI-AZINON (UG/L)	TOTAL DI-ELDRIN (UG/L)	TOTAL ENDRIN (UG/L)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)
FEB. 13...	1215	.00	.0	.00	.00	.01	.00	<.01	.00	.00	.00	.00
MAR. 07...	0620	.00	.0	.00	.05	.07	.23	.00	.00	.00	.00	.00
APR. 03...	1000	.00	.0	.00	.00	.00	.00	.00	.00	--	.00	.00

DATE	TOTAL LINDANE (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	TOTAL TOX-APHENE (UG/L)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
FEB. 13...	.00	.00	.00	.00	.00	.0	0	.00	--	--	--
MAR. 07...	.00	.00	.00	.00	.00	.0	0	.00	.17	.00	.05
APR. 03...	.00	.00	.00	--	.00	.0	0	--	.00	.00	.00

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BORON (B) (UG/L)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)
FEB. 13...	1215	9	200	160	10	120	<100	.1
MAR. 07...	0620	80	160	110	10	800	300	.9
APR. 03...	1000	3	480	410	10	0	<100	.1

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975 (ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	12.0	8.0	9.5	---	13.5	---	---	---	29.5	---
2	---	---	12.0	---	9.5	---	13.0	---	---	---	---	---
3	18.5	15.0	13.5	6.5	9.0	14.5	9.0	15.5	---	---	---	---
4	---	---	11.0	7.5	9.5	---	12.0	---	---	---	---	---
5	---	14.5	---	---	11.5	12.5	10.0	---	---	25.5	---	---
6	---	---	11.5	---	10.5	---	10.5	16.0	---	---	20.5	---
7	---	15.0	---	---	---	12.0	11.0	---	26.5	---	---	---
8	---	---	11.0	10.0	15.0	11.5	12.0	---	---	20.0	---	---
9	---	---	---	---	---	15.0	16.0	17.0	---	---	---	---
10	---	14.5	10.0	7.5	11.0	10.0	13.0	---	---	---	---	---
11	---	---	---	---	11.5	14.5	13.5	---	---	---	---	---
12	---	15.5	12.0	8.5	---	13.5	---	---	21.0	22.0	---	---
13	---	---	---	---	12.5	9.5	---	20.5	---	---	---	---
14	---	---	11.5	9.5	---	14.0	11.5	---	---	---	---	---
15	---	13.5	---	---	---	---	---	---	---	19.0	---	---
16	---	---	11.0	9.0	---	11.5	12.0	19.5	---	---	---	20.0
17	---	14.0	---	---	---	12.0	---	---	---	---	---	---
18	---	---	---	---	---	13.0	---	---	---	19.0	---	---
19	---	---	10.0	9.5	---	11.0	15.0	18.0	---	---	---	---
20	---	---	---	---	---	14.0	---	---	---	---	---	20.5
21	16.0	---	11.0	9.0	---	10.0	14.0	---	---	---	---	---
22	---	---	---	---	11.0	9.0	---	---	---	23.0	---	---
23	16.0	---	---	---	---	15.0	14.0	---	---	---	---	---
24	---	14.5	9.5	9.5	11.5	14.0	---	---	---	---	---	19.5
25	16.5	---	---	---	---	11.5	---	---	---	---	---	---
26	---	---	---	---	12.0	11.0	17.0	---	---	---	---	---
27	12.0	12.5	9.5	7.5	---	12.5	---	---	---	---	---	---
28	16.5	13.0	7.0	---	15.0	10.5	---	---	---	24.0	---	---
29	15.5	---	7.5	---	---	13.0	18.0	---	---	---	---	18.5
30	---	---	---	7.0	---	18.0	---	---	22.0	---	---	---
31	15.0	---	---	7.5	---	12.0	---	---	---	---	---	---
MONTH	---	---	---	---	---	12.5	---	---	---	---	---	---

## CALABAZAS CREEK BASIN

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.--Continued

TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.48	8	.01	1.7	11	.05	1.8	8	.04
2	.78	11	.02	1.7	11	.05	3.0	116	1.9
3	1.5	15	.06	1.5	11	.04	5.8	896	45
4	1.5	14	.06	1.5	12	.05	.52	219	.29
5	2.2	30	.18	1.5	14	.06	1.3	34	.12
6	2.7	24	.18	1.6	12	.05	1.2	29	.09
7	2.5	16	.11	1.6	10	.04	1.2	20	.06
8	2.5	15	.10	1.6	10	.04	1.2	10	.03
9	2.0	14	.08	1.6	10	.04	1.2	12	.04
10	1.5	13	.05	1.5	10	.04	1.1	15	.04
11	1.5	12	.05	1.5	11	.04	1.1	14	.04
12	1.5	12	.05	1.5	12	.05	1.0	12	.03
13	1.4	10	.04	1.5	10	.04	1.1	24	.07
14	1.4	8	.03	1.5	8	.03	1.1	36	.11
15	1.3	7	.02	1.4	6	.02	1.0	24	.06
16	1.2	7	.02	1.6	8	.03	1.1	13	.04
17	1.2	7	.02	1.5	10	.04	1.1	22	.07
18	1.2	8	.03	1.7	10	.05	1.0	32	.09
19	1.2	9	.03	.72	10	.02	1.0	41	.11
20	.52	4	.01	.20	20	.07	1.1	25	.07
21	.85	6	.01	2.1	58	1.2	1.0	10	.03
22	1.8	10	.05	.66	10	.02	1.0	11	.03
23	1.4	8	.04	1.7	10	.05	1.0	12	.03
24	1.8	8	.04	1.8	10	.05	1.1	13	.04
25	1.8	8	.04	1.8	9	.04	1.2	14	.05
26	1.8	8	.04	1.8	8	.04	1.2	16	.05
27	1.9	26	.13	1.8	7	.03	12	1290	94
28	2.8	60	.78	1.8	8	.04	1.2	274	2.7
29	1.8	19	.09	1.8	8	.04	.44	45	.15
30	1.6	15	.06	1.8	8	.04	1.3	17	.06
31	1.5	11	.04	---	---	---	1.2	17	.06
MONTH	49.53	---	2.47	45.98	---	2.40	51.56	---	145.50

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.2	17	.06	107	7020	4130	.19	18	.01
2	1.2	18	.06	30	2120	332	.19	18	.01
3	1.1	18	.05	3.4	366	5.0	.16	18	.01
4	1.1	20	.06	18	2990	184	.13	18	.01
5	1.1	20	.06	2.1	371	2.7	.40	35	.05
6	.61	12	.03	.55	92	.15	.31	30	.03
7	0	0	0	.17	40	.02	.85	5130	1650
8	.09	28	.01	2.6	464	9.3	.68	2760	667
9	.18	7	.01	28	2230	275	.12	546	20
10	1.2	42	.14	18	1860	140	5.8	290	4.5
11	1.2	30	.10	2.7	586	4.6	3.0	280	2.3
12	1.1	18	.05	1.0	380	1.0	1.6	150	.65
13	1.1	24	.07	11	895	48	8.8	736	34
14	1.1	30	.09	1.6	200	.86	5.5	410	6.1
15	1.0	30	.08	.56	80	.12	11	932	179
16	1.0	50	.14	.19	50	.03	.26	1320	162
17	1.0	40	.11	.13	20	.01	5.9	310	4.9
18	1.0	40	.11	.10	10	0	3.0	180	1.5
19	.93	41	.10	0	0	0	2.0	100	.54
20	.90	34	.08	.10	10	.01	1.3	60	.21
21	.93	28	.07	.46	30	.04	33	2860	986
22	.91	28	.07	.43	28	.03	27	2690	273
23	1.0	26	.07	.40	30	.03	7.6	538	12
24	.98	26	.07	.37	31	.03	5.0	320	4.3
25	.95	26	.07	.27	27	.02	16	970	72
26	.84	25	.06	.24	23	.02	4.3	220	2.6
27	.87	25	.06	.22	21	.01	2.5	159	1.1
28	.43	13	.03	.19	19	.01	1.7	133	.61
29	.30	10	.02	---	---	---	1.3	124	.44
30	1.4	24	.07	---	---	---	.90	110	.27
31	27	4080	1110	---	---	---	1.8	236	1.6
MONTH	53.72	---	1112.02	229.78	---	5132.99	341.38	---	4086.74

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.--Continued  
 TOTAL-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.9	155	1.1	3.3	16	.14	0	40	0
2	.20	100	.05	3.2	18	.16	.90	25	.06
3	.20	75	.04	3.3	20	.18	3.1	46	.39
4	1.2	334	5.0	3.3	22	.20	2.8	46	.35
5	5.3	1690	39	3.3	24	.21	2.2	48	.29
6	1.6	235	1.2	3.3	26	.23	2.0	48	.26
7	.91	97	.24	3.2	35	.30	2.0	50	.27
8	.57	60	.09	3.2	40	.35	2.0	45	.24
9	.28	131	.10	3.0	50	.41	2.0	40	.22
10	.13	42	.01	2.9	45	.35	2.0	35	.19
11	.67	50	.09	2.9	45	.35	2.0	30	.16
12	2.8	80	.60	2.9	45	.35	2.0	24	.13
13	3.9	70	.74	3.0	43	.35	1.9	24	.12
14	4.1	65	.72	3.1	40	.33	1.0	23	.06
15	4.3	60	.70	2.3	38	.24	0	0	0
16	4.3	54	.63	4.1	35	.39	0	0	0
17	4.2	50	.57	4.4	32	.38	0	0	0
18	4.1	45	.50	4.1	28	.31	0	0	0
19	4.2	39	.44	3.3	25	.22	0	0	0
20	4.1	35	.39	2.8	26	.20	0	0	0
21	4.1	30	.33	2.2	28	.17	0	0	0
22	3.9	25	.26	3.3	30	.27	0	0	0
23	3.9	21	.22	3.0	30	.24	0	0	0
24	4.1	22	.24	2.4	32	.21	0	0	0
25	4.1	24	.27	2.4	34	.22	0	0	0
26	3.9	26	.27	2.3	34	.21	0	0	0
27	3.8	22	.23	2.3	36	.22	0	0	0
28	3.4	18	.17	2.7	38	.28	.45	10	.01
29	3.3	14	.12	1.4	20	.08	1.6	15	.06
30	3.3	15	.13	0	0	0	1.7	15	.07
31	---	---	---	0	0	0	---	---	---
MONTH	86.76	---	54.45	86.90	---	7.55	29.65	---	2.88
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.8	14	.07	.77	5	.01	0	0	0
2	1.8	13	.06	.97	6	.02	0	0	0
3	1.8	12	.06	1.0	6	.02	0	0	0
4	1.8	11	.05	.90	7	.02	0	0	0
5	1.7	10	.05	.76	8	.02	0	0	0
6	1.6	10	.04	.80	9	.02	0	0	0
7	1.5	10	.04	.91	9	.02	0	0	0
8	1.6	10	.04	1.1	9	.03	.15	7	0
9	1.6	12	.05	1.0	9	.02	0	0	0
10	1.7	13	.06	.50	7	.01	0	0	0
11	1.6	14	.06	0	0	0	0	0	0
12	1.6	15	.06	0	0	0	0	0	0
13	1.6	14	.06	0	0	0	0	0	0
14	1.5	13	.05	0	0	0	.67	10	.02
15	1.4	12	.05	0	0	0	4.3	14	.16
16	.62	10	.02	0	0	0	3.9	14	.15
17	.60	8	.01	0	0	0	2.7	12	.09
18	.73	7	.01	.14	10	0	2.3	10	.06
19	.50	10	.01	0	0	0	1.6	8	.03
20	.28	14	.01	0	0	0	1.6	5	.02
21	.24	16	.01	0	0	0	1.6	5	.02
22	.42	20	.02	0	0	0	1.6	4	.02
23	1.0	18	.05	0	0	0	1.6	3	.01
24	1.0	16	.04	0	0	0	1.6	2	.01
25	.92	15	.04	0	0	0	1.6	2	.01
26	.99	14	.04	0	0	0	1.7	3	.01
27	.94	12	.03	0	0	0	1.6	4	.02
28	.96	11	.03	0	0	0	1.6	5	.02
29	.77	10	.02	0	0	0	1.6	5	.02
30	.59	8	.01	0	0	0	1.6	5	.02
31	1.0	6	.02	0	0	0	---	---	---
MONTH	36.16	---	1.17	8.85	---	.19	33.32	---	.69
YEAR	1053.59		10549.05						

11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDEO SEDI- MENT (MG/L)	SUS- PENDEO SEDI- MENT (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
JAN.											
31...	1740	7.5	84	7000	1590	38	42	53	63	72	80
31...	1910	7.5	139	17600	6610	41	48	58	69	81	89
FEB.											
01...	1645	9.5	437	19900	23500	33	37	43	52	64	75
01...	1730	9.5	650	27800	48800	37	43	52	63	74	81
MAR.											
07...	0545	11.5	105	6580	1870	--	--	--	--	--	--
07...	1000	11.5	156	9020	3800	28	33	39	49	60	73
07...	1735	12.0	87	3900	916	--	--	--	--	--	--
08...	1020	11.5	55	2130	316	--	--	--	--	--	--
21...	1915	10.0	140	10500	3970	--	--	--	--	--	--

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE 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 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
JAN.										
31...	--	90	--	95	--	98	--	100	--	--
31...	--	95	--	98	--	100	--	--	--	--
FEB.										
01...	--	91	--	98	--	100	--	--	--	--
01...	--	94	--	98	--	100	--	--	--	--
MAR.										
07...	76	--	84	--	90	--	97	--	100	--
07...	--	85	--	93	--	98	--	100	--	--
07...	76	--	83	--	89	--	97	--	99	100
08...	73	--	78	--	82	--	85	--	86	86
21...	72	--	86	--	94	--	98	--	100	--

## PARTICLE-SIZE DISTRIBUTION OF TOTAL SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		INSTAN- TANEOUS DIS- CHARGE		TOTAL SEDI- MENT (MG/L)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM
DATE	TIME	TEMPER- ATURE (DEG C)							
DEC.									
02...	2135	11.5	7.7	309	6.4	--	--	--	--
27...	1715	9.0	45	4410	536	23	29	34	39
FEB.									
13...	0915	11.0	29	2150	168	--	--	--	--
13...	1515	12.5	10	721	19	--	--	--	--
DATE	TOTAL SED. FALL DIAM. % FINER THAN .031 MM	TOTAL SED. FALL DIAM. % FINER THAN .062 MM	TOTAL SED. FALL DIAM. % FINER THAN .125 MM	TOTAL SED. FALL DIAM. % FINER THAN .250 MM	TOTAL SED. FALL DIAM. % FINER THAN .500 MM	TOTAL SED. FALL DIAM. % FINER THAN 1.00 MM	TOTAL SED. FALL DIAM. % FINER THAN 2.00 MM	TOTAL SED. FALL DIAM. % FINER THAN 4.00 MM	TOTAL SED. FALL DIAM. % FINER THAN 8.00 MM
DEC.									
02...	--	84	94	99	100	--	--	--	--
27...	44	47	50	54	66	76	83	95	100
FEB.									
13...	--	86	88	90	93	97	100	--	--
13...	--	86	87	88	93	98	100	--	--



11169616 CALABAZAS CREEK AT RAINBOW DRIVE, NEAR CUPERTINO, CALIF.--Continued  
 PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
 WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
JAN.								
31...	1735	4	71	12	115	--	3	12
31...	1915	4	139	12	70	1	9	26
31...	2205	6	84	12	76	1	5	14
FEB.								
01...	1055	4	61	12	408	--	1	10
02...	1030	6	20	14	49	--	1	5
13...	0930	10	29	14	11	--	5	24
MAR.								
07...	0550	6	105	12	224	1	4	13
07...	0815	6	116	12	280	--	2	7

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
JAN.								
31...	17	23	33	51	74	84	88	100
31...	38	52	65	80	91	92	100	--
31...	21	30	45	64	76	90	100	--
FEB.								
01...	18	29	46	67	87	97	100	--
02...	17	38	64	87	99	100	--	--
13...	41	57	72	88	100	--	--	--
MAR.								
07...	22	31	40	52	71	91	100	--
07...	10	15	28	52	69	88	100	--

## COYOTE CREEK BASIN

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, on left bank 0.7 mi (1.1 km) downstream from Bear Creek, 5.0 mi (8.0 km) upstream from Coyote Creek Dam, and 6.4 mi (10.3 km) northeast of Gilroy.

DRAINAGE AREA.--109 mi<sup>2</sup> (282 km<sup>2</sup>).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 790 ft (241 m), from topographic map. Prior to Nov. 14, 1963, at site 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--15 years, 47.5 ft<sup>3</sup>/s (1.345 m<sup>3</sup>/s), 34,410 acre-ft/yr (42.4 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,220 ft<sup>3</sup>/s (62.9 m<sup>3</sup>/s) Feb. 2 (gage height, 8.24 ft or 2.512 m); no flow many days.

Period of record: Maximum discharge, 10,100 ft<sup>3</sup>/s (286 m<sup>3</sup>/s) Jan. 31, 1963 (gage height, 12.60 ft or 3.840 m, site and datum then in use), from rating curve extended above 3,200 ft<sup>3</sup>/s (90.6 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times in each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	4.2	32	18	75	24	4.7	1.3	.39	.17
2			0	3.4	990	17	63	23	4.7	1.3	.39	.17
3			7.0	3.0	376	16	59	23	4.7	1.2	.36	.15
4			96	3.0	543	15	57	23	4.7	1.2	.36	.15
5			19	2.8	242	18	131	21	4.4	1.2	.36	.15
6			8.2	4.2	101	35	155	21	4.2	1.1	.36	.15
7			4.9	33	126	666	105	20	3.9	1.0	.36	.15
8			3.6	35	145	1020	131	19	3.9	.95	.32	.15
9			3.0	38	719	480	105	18	3.4	.95	.32	.13
10			2.6	26	946	291	85	17	3.2	.87	.32	.13
11			2.2	19	265	206	75	16	3.0	.87	.32	.13
12			2.0	14	135	141	66	15	3.0	.81	.29	.11
13			2.0	9.9	685	185	59	15	2.8	.81	.29	.11
14			2.0	7.9	464	242	54	14	2.6	.81	.29	.11
15			2.0	6.1	202	202	54	13	2.6	.81	.26	.11
16			1.9	4.9	121	519	50	13	2.4	.81	.26	.09
17			1.9	4.4	80	288	50	12	2.4	.81	.26	.09
18			1.9	3.9	59	197	43	11	2.2	.81	.29	.09
19			1.7	3.4	50	149	40	10	2.2	.81	.26	.07
20			1.6	3.0	66	115	39	9.4	2.2	.81	.26	.07
21			1.7	2.8	50	212	37	9.0	2.2	.74	.26	.06
22			1.7	2.4	39	744	35	9.0	2.2	.74	.23	.06
23			1.4	2.2	33	326	33	8.6	2.2	.68	.23	.06
24			1.4	2.2	30	227	34	8.2	2.0	.62	.23	.06
25			1.4	2.0	27	464	38	7.9	1.9	.57	.23	.05
26			1.4	2.0	23	316	34	7.2	1.7	.57	.23	.05
27			1.9	2.0	21	216	30	6.8	1.7	.52	.20	.05
28			9.9	1.9	20	161	29	6.5	1.6	.48	.20	.04
29			13	2.0	---	124	26	5.5	1.4	.48	.20	.03
30			7.5	2.0	---	102	26	5.2	1.3	.43	.20	.01
31		---	5.5	2.0	---	88	---	4.9	---	.43	.17	---
TOTAL	0	0	210.3	252.6	6590	7800	1818	416.2	85.4	25.49	8.70	2.95
MEAN	0	0	6.78	8.15	235	252	60.6	13.4	2.85	.82	.28	.098
MAX	0	0	96	38	990	1020	155	24	4.7	1.3	.39	.17
MIN	0	0	0	1.9	20	15	26	4.9	1.3	.43	.17	.01
AC-FT	0	0	417	501	13070	15470	3610	826	169	51	17	5.9
CAL YR 1974	TOTAL	19008.25	MEAN	52.1	MAX	1550	MIN	0	AC-FT	37700		
WTR YR 1975	TOTAL	17209.64	MEAN	47.1	MAX	1020	MIN	0	AC-FT	34140		

Peak discharge (base, 1,000 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-2	0600	8.24	2,220	3-8	1200	7.52	1,690
2-10	0230	7.83	1,910	3-22	0015	7.01	1,360
2-13	1445	6.90	1,290				

PERIOD OF RECORD.--Water temperatures: December 1964 to current year.  
Sediment records: December 1964 to current year.

Sediment concentrations: Maximum daily, 422 mg/l Feb. 2; minimum daily, no flow for many days.  
Sediment discharge: Maximum daily, 1,620 tons (1,470 tonnes) Feb. 2; minimum daily, 0 tons (0 tonnes) on many days.

Sediment concentrations: Maximum daily, 3,220 mg/l Jan. 19, 1969; minimum daily, no flow for many days each year.

Sediment discharge: Maximum daily, 41,600 tons (37,700 tonnes) Jan. 19, 1969; minimum daily, 0 tons (0 tonnes) on many days each year.

[illegible]

## COYOTE CREEK BASIN

11169800 COYOTE CREEK NEAR GILROY, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1							0	0	0
2							0	0	0
3							7.0	1	.37
4							96	17	5.9
5							19	2	.10
6							8.2	1	.02
7							4.9	1	.01
8							3.6	1	.01
9							3.0	1	.01
10							2.6	1	.01
11							2.2	1	.01
12							2.0	2	.01
13							2.0	2	.01
14							2.0	3	.02
15							2.0	4	.02
16							1.9	4	.02
17							1.9	3	.02
18							1.9	3	.02
19							1.7	3	.01
20							1.6	3	.01
21							1.7	3	.01
22							1.7	3	.01
23							1.4	3	.01
24							1.4	2	.01
25							1.4	2	.01
26							1.4	2	.01
27							1.9	2	.01
28							9.9	3	.08
29							13	3	.11
30							7.5	2	.04
31				---	---	---	5.5	2	.03
MONTH	0	---	0	0	---	0	210.30	---	6.91

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4.2	2	.02	32	26	6.7	18	2	.10
2	3.4	2	.02	990	422	1620	17	2	.09
3	3.0	2	.02	376	40	41	16	2	.09
4	3.0	2	.02	543	80	141	15	2	.08
5	2.8	2	.02	242	15	9.8	18	3	.15
6	4.2	3	.03	101	3	.82	35	4	.38
7	33	3	.28	126	9	4.1	666	251	781
8	35	2	.19	145	7	3.0	1020	243	788
9	38	2	.21	719	171	408	480	70	91
10	26	2	.14	946	305	1180	291	31	24
11	19	4	.21	265	10	7.2	206	22	12
12	14	3	.11	135	6	2.2	141	12	4.6
13	9.9	2	.05	685	146	393	185	19	13
14	7.9	1	.02	464	30	38	242	11	7.9
15	6.1	1	.02	202	2	1.1	202	4	2.2
16	4.9	2	.03	121	1	.33	519	49	80
17	4.4	2	.02	80	1	.22	288	10	7.8
18	3.9	2	.02	59	1	.16	197	5	2.7
19	3.4	2	.02	50	1	.14	149	3	1.2
20	3.0	3	.02	66	2	.36	115	2	.62
21	2.8	3	.02	50	1	.14	212	87	211
22	2.4	3	.02	39	1	.11	744	76	203
23	2.2	3	.02	33	1	.09	326	26	23
24	2.2	3	.02	30	2	.16	227	12	7.4
25	2.0	3	.02	27	3	.22	464	40	57
26	2.0	3	.02	23	2	.12	316	14	12
27	2.0	3	.02	21	2	.11	216	8	4.7
28	1.9	3	.02	20	2	.11	161	5	2.2
29	2.0	3	.02	---	---	---	124	4	1.3
30	2.0	3	.02	---	---	---	102	3	.83
31	2.0	3	.02	---	---	---	88	3	.71
MONTH	252.6	---	1.69	6590	---	3858.19	7800	---	2340.05

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

APRIL				MAY				JUNE			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	75	3	.61	24	4	.26	4.7	8	.10		
2	63	2	.34	23	4	.25	4.7	9	.11		
3	59	2	.32	23	4	.25	4.7	7	.09		
4	57	1	.15	23	4	.25	4.7	4	.05		
5	131	10	3.8	21	4	.23	4.4	4	.05		
6	155	8	3.7	21	4	.23	4.2	4	.05		
7	105	5	1.4	20	4	.22	3.9	4	.04		
8	131	10	3.8	19	4	.21	3.9	4	.04		
9	105	4	1.1	18	3	.15	3.4	5	.05		
10	85	3	.69	17	3	.14	3.2	5	.04		
11	75	2	.41	16	3	.13	3.0	5	.04		
12	66	2	.36	15	3	.12	3.0	5	.04		
13	59	2	.32	15	4	.16	2.8	5	.04		
14	54	2	.29	14	4	.15	2.6	4	.03		
15	54	2	.29	13	5	.18	2.6	4	.03		
16	50	2	.27	13	5	.18	2.4	4	.03		
17	50	2	.27	12	5	.16	2.4	4	.03		
18	43	2	.23	11	5	.15	2.2	4	.02		
19	40	2	.22	10	6	.16	2.2	4	.02		
20	39	2	.21	9.4	6	.15	2.2	4	.02		
21	37	2	.20	9.0	7	.17	2.2	5	.03		
22	35	2	.19	9.0	7	.17	2.2	5	.03		
23	33	2	.18	8.6	6	.14	2.2	5	.03		
24	34	2	.18	8.2	5	.11	2.0	6	.03		
25	38	2	.21	7.9	4	.09	1.9	6	.03		
26	34	2	.18	7.2	3	.06	1.7	6	.03		
27	30	2	.16	6.8	2	.04	1.7	7	.03		
28	29	1	.08	6.5	2	.04	1.6	7	.03		
29	26	3	.21	5.5	4	.06	1.4	7	.03		
30	26	4	.28	5.2	5	.07	1.3	8	.03		
31	---	---	---	4.9	6	.08	---	---	---		
MONTH	1818	---	20.65	416.2	---	4.76	85.4	---	1.22		
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	1.3	15	.05	.39	12	.01	.17	3	0		
2	1.3	23	.08	.39	11	.01	.17	3	0		
3	1.2	22	.07	.36	10	.01	.15	3	0		
4	1.2	21	.07	.36	8	.01	.15	3	0		
5	1.2	20	.06	.36	7	.01	.15	2	0		
6	1.1	19	.06	.36	5	0	.15	2	0		
7	1.0	17	.05	.36	5	0	.15	2	0		
8	.95	16	.04	.32	5	0	.15	2	0		
9	.95	15	.04	.32	5	0	.13	2	0		
10	.87	15	.04	.32	5	0	.13	2	0		
11	.87	15	.04	.32	5	0	.13	2	0		
12	.81	15	.03	.29	5	0	.11	2	0		
13	.81	14	.03	.29	5	0	.11	2	0		
14	.81	14	.03	.29	5	0	.11	2	0		
15	.81	14	.03	.26	5	0	.11	1	0		
16	.81	14	.03	.26	4	0	.09	1	0		
17	.81	14	.03	.26	4	0	.09	1	0		
18	.81	14	.03	.29	4	0	.09	1	0		
19	.81	15	.03	.26	4	0	.07	1	0		
20	.81	15	.03	.26	4	0	.07	1	0		
21	.74	16	.03	.26	4	0	.06	1	0		
22	.74	16	.03	.23	4	0	.06	1	0		
23	.68	17	.03	.23	4	0	.06	1	0		
24	.62	17	.03	.23	4	0	.06	1	0		
25	.57	17	.03	.23	4	0	.05	0	0		
26	.57	16	.02	.23	3	0	.05	0	0		
27	.52	16	.02	.20	3	0	.05	0	0		
28	.48	16	.02	.20	3	0	.04	0	0		
29	.48	15	.02	.20	3	0	.03	0	0		
30	.43	15	.02	.20	3	0	.01	0	0		
31	.43	14	.02	.17	3	0	---	---	---		
MONTH	25.49	---	1.14	8.70	---	.05	2.95	---	0		
YEAR 17209.64 6234.66											

## COYOTE CREEK BASIN

11169800 COYOTE CREEK NEAR GILROY, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT CHARGE (MG/L)	SUS- PENDE SEDI- MENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
FEB.							
02...	1045	7.5	1140	363	1120	39	52
03...	1320	7.5	389	21	22	--	--
04...	0945	7.5	739	206	411	--	--
11...	0905	8.0	282	11	8.4	--	--
13...	0855	9.5	294	101	80	--	--
13...	1725	9.5	1240	186	623	--	--
MAR.							
08...	1045	9.5	1520	396	1630	28	36
22...	1700	9.5	535	39	56	--	--

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
FEB.							
02...	67	81	91	94	98	100	--
03...	--	--	--	98	99	100	--
04...	--	--	--	95	99	100	--
11...	--	--	--	95	98	99	100
13...	--	--	--	89	94	99	100
13...	--	--	--	97	99	100	--
MAR.							
08...	46	58	73	87	96	99	100
22...	--	--	--	98	99	100	--

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM
OCT.							
15...	1330	5	.00	1	2	4	11

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...	19	29	43	58	77	95	100

## RESERVOIRS IN COYOTE CREEK BASIN, CALIF.

11169850 COYOTE LAKE.--Lat 37°07'06", long 121°32'55", in SE¼ sec.29, T.9 S., R.4 E., Santa Clara County, at center of dam on Coyote Creek, 3.8 mi (6.1 km) northeast of San Martin. Drainage area, 120 mi<sup>2</sup> (311 km<sup>2</sup>). Period of record, February 1936 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District). Extremes for current year: Maximum contents observed, 24,310 acre-ft (30.0 hm<sup>3</sup>) Mar. 26 (elevation, 778.24 ft or 237.208 m); minimum observed, 15,640 acre-ft (19.3 hm<sup>3</sup>) Jan. 31 (elevation, 763.70 ft or 232.776 m). Extremes for period of record: Maximum contents observed, 28,120 acre-ft (34.7 hm<sup>3</sup>) Dec. 8, 1950 (elevation 782.5 ft or 238.51 m); no contents at times.

Reservoir is formed by rock- and earthfill dam completed in 1936. Capacity, 23,700 acre-ft (29.2 hm<sup>3</sup>) between elevations 693.3 ft (211.32 m), invert of outlet tunnel and 777.2 ft (236.89 m), crest of spillway. Water released down Coyote Creek for storage in Anderson Lake. Record of contents furnished by Santa Clara Valley Water District.

11169920 ANDERSON LAKE.--Lat 37°09'56", long 121°37'42", in southeast corner of La Laguna Seca Grant, Santa Clara County, at center of dam on Coyote Creek, 2.5 mi (4.0 km) northeast of Madrone. Drainage area, 195 mi<sup>2</sup> (505 km<sup>2</sup>). Period of record, December 1950 to current year. Monthly contents prior to October 1959, published in WSP 1735. Nonrecording gage read once daily. Datum of gage is at mean sea level (levels by Santa Clara Valley Water District). Extremes for current year: Maximum contents observed, 91,480 acre-ft (113 hm<sup>3</sup>) Apr. 25 (elevation, 625.16 ft or 190.549 m); minimum observed, 64,530 acre-ft (79.6 hm<sup>3</sup>) Jan. 31 (elevation, 600.76 ft or 183.112 m). Extremes for period of record: Maximum contents, 95,990 acre-ft (118 hm<sup>3</sup>) Apr. 3, 1958 (elevation, 628.67 ft or 191.619 m, from floodmarks); no contents at times in 1960-62.

Reservoir is formed by earth- and rockfill dam completed in 1950. Capacity, 91,280 acre-ft (113 hm<sup>3</sup>) between elevations 439 ft (133.8 m), invert of outlet tunnel and 625.0 ft (190.50 m), crest of spillway. Water released down Coyote Creek for irrigation and ground-water recharge by percolation. Record of contents furnished by Santa Clara Valley Water District.

MONTHEND CONTENTS, IN ACRE-FEET (INCLUDING MOMENTARY  
STORAGE ABOVE SPILLWAY CREST), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Coyote Lake	Anderson Lake
Sept. 30, 1974.....	21,270	70,010
Oct. 31.....	18,740	66,890
Nov. 30.....	16,810	66,070
Dec. 31.....	16,180	65,190
Jan. 31, 1975.....	15,350	64,760
Feb. 28.....	23,700	71,850
Mar. 31.....	23,930	90,970
Apr. 30.....	23,750	91,350
May 31.....	23,540	88,250
June 30.....	22,920	83,720
July 31.....	22,240	79,220
Aug. 31.....	21,470	74,450
Sept. 30.....	20,780	69,910

NOTE.--Contents at 0800 on first day of following month.

## COYOTE CREEK BASIN

11170000 COYOTE CREEK NEAR MADRONE, CALIF.

LOCATION.--Lat 37°10'06", long 121°38'55", near southeast corner of La Laguna Seca Grant, Santa Clara County, on right bank 1.2 mi (1.9 km) downstream from Anderson Dam, and 1.8 mi (2.9 km) northeast of Madrone.

DRAINAGE AREA.--196 mi<sup>2</sup> (508 km<sup>2</sup>).

PERIOD OF RECORD.--October 1902 to September 1912, December 1916 to current year. Records for water years 1917-19 incomplete, yearly estimates published in WSP 1315-B. Published as Coyote River near Madrone 1902-12, 1916-26.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 375 ft (114 m), from topographic map. Prior to Mar. 1, 1950, nonrecording gage and water-stage recorders at various sites within 1.4 mi (2.3 km) upstream at different datums.

AVERAGE DISCHARGE (unadjusted).--69 years, 64.7 ft<sup>3</sup>/s (1.832 m<sup>3</sup>/s), 46,880 acre-ft/yr (57.8 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 217 ft<sup>3</sup>/s (6.15 m<sup>3</sup>/s) Apr. 5 (gage height, 2.89 ft or 0.881 m); minimum daily, 13 ft<sup>3</sup>/s (0.37 m<sup>3</sup>/s) Feb. 25, 26.

Period of record: Maximum discharge, 25,000 ft<sup>3</sup>/s (708 m<sup>3</sup>/s) probably Mar. 7, 1911 (record furnished by Duryea, Haehl, and Gilman); no flow at times.

REMARKS.--Records good. Flow regulated by Coyote (see sta 11169880) and Anderson (see sta 11169920) Lakes; water released during summer. Water is diverted to Main Avenue percolation ponds by Santa Clara Valley Water District.

REVISIONS (WATER YEARS).--WSP 1345: 1932, 1935(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	43	28	28	17	14	134	28	77	63	99	65
2	77	43	28	30	17	14	110	27	77	63	99	65
3	75	43	30	30	17	14	77	26	75	63	99	65
4	75	42	30	30	16	14	77	23	77	63	85	65
5	72	40	27	30	16	14	150	21	75	63	63	65
6	72	40	22	26	16	14	213	27	72	63	67	70
7	72	37	22	15	16	16	173	37	72	61	67	72
8	70	37	22	15	16	15	147	59	75	63	64	72
9	67	37	22	15	16	14	163	77	72	63	63	72
10	67	37	22	15	15	14	186	77	72	63	63	72
11	67	37	22	15	14	14	153	65	72	63	63	72
12	67	33	22	15	14	14	85	45	72	65	63	70
13	67	21	22	15	14	15	44	39	72	63	63	72
14	67	21	22	15	14	14	44	39	72	63	63	70
15	67	21	21	15	14	14	36	39	72	65	63	65
16	67	21	21	15	14	14	21	48	71	65	63	61
17	67	21	21	15	14	14	21	61	69	65	63	65
18	67	21	23	15	14	14	21	61	68	67	65	65
19	67	22	27	15	14	14	22	61	68	75	65	63
20	67	22	27	15	14	14	26	65	68	75	65	65
21	67	26	27	15	14	15	28	70	68	75	65	65
22	67	31	27	15	14	14	32	70	68	75	65	65
23	67	31	27	15	14	14	34	70	68	72	65	65
24	67	31	27	15	14	14	36	70	68	75	65	65
25	67	31	27	15	13	14	38	70	68	75	65	63
26	67	30	27	16	13	14	38	70	66	75	65	63
27	67	28	28	16	14	96	38	72	64	75	65	63
28	67	28	27	14	14	147	36	77	64	75	65	63
29	54	28	27	16	---	88	34	77	64	88	65	57
30	43	28	27	16	---	88	31	75	65	102	65	50
31	43	---	27	16	---	88	---	75	---	99	65	---
TOTAL	2070	931	779	553	412	876	2248	1721	2111	2180	2120	1970
MEAN	66.8	31.0	25.1	17.8	14.7	28.3	74.9	55.5	70.4	70.3	68.4	65.7
MAX	77	43	30	30	17	147	213	77	77	102	99	72
MIN	43	21	21	14	13	14	21	21	64	61	63	50
AC-FT	4110	1850	1550	1100	817	1740	4460	3410	4190	4320	4210	3910
(a)	787	601	771	433	158	227	657	640	659	692	639	658

CAL YR 1974 TOTAL 20891 MEAN 57.2 MAX 861 MIN 11 AC-FT 41440 a 5,070  
WTR YR 1975 TOTAL 17971 MEAN 49.2 MAX 213 MIN 13 AC-FT 35650 a 6,920

a Diversion, in acre-feet, to Main Avenue percolation ponds, furnished by Santa Clara Valley Water District.



## 11172100 UPPER PENITENCIA CREEK AT SAN JOSE, CALIF.

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

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

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

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

AVERAGE DISCHARGE.--14 years, 5.43 ft<sup>3</sup>/s (0.154 m<sup>3</sup>/s), 3,930 acre-ft/yr (4.85 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 376 ft<sup>3</sup>/s (10.6 m<sup>3</sup>/s) Mar. 21 (gage height, 4.84 ft or 1.475 m); minimum daily, 0.06 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Aug. 9, 15, 16.

Period of record: Maximum discharge, 1,500 ft<sup>3</sup>/s (42.5 m<sup>3</sup>/s) Jan. 21, 1967 (gage height, 6.24 ft or 1.902 m in gage well, 7.8 ft or 2.38 m, from outside gage), from rating curve extended above 270 ft<sup>3</sup>/s (7.65 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times in some years.

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

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.11	.41	.48	.55	.67	3.9	12	3.7	1.0	.64	.20	.29
2	.18	.72	.75	.55	130	3.7	9.4	3.5	1.1	.52	.20	.29
3	.22	.72	1.2	.55	13	3.5	9.0	3.5	1.1	.42	.22	.20
4	.41	.63	3.2	.48	31	3.3	9.4	3.5	1.0	.42	.22	.20
5	.41	.63	1.8	.55	17	3.5	29	3.3	.92	.70	.22	.25
6	.35	.63	1.5	4.4	8.6	3.9	23	3.1	.92	.92	.22	.25
7	.41	1.1	1.1	4.6	29	39	21	3.0	.92	.77	.20	.29
8	.48	.35	.90	3.4	21	101	24	3.1	.92	.52	.10	.33
9	.48	.41	.78	2.7	74	51	19	3.0	.84	.52	.06	.37
10	.48	.41	.72	2.0	74	50	16	3.0	.77	.52	.10	.33
11	.45	.41	.68	1.5	42	37	14	2.6	.84	.52	.07	.33
12	.42	.41	.66	1.2	26	27	11	2.6	.84	.52	.09	.33
13	.40	.35	.64	1.1	68	34	9.7	2.5	.77	.47	.10	.33
14	.38	.35	.62	1.0	47	52	10	2.3	.58	.42	.07	.37
15	.36	.35	.62	.95	28	44	11	2.3	.58	.52	.06	.29
16	.35	.41	.63	.92	19	64	8.6	2.3	.58	.58	.06	.33
17	.30	.35	.60	.86	13	41	7.9	2.1	.52	.52	.09	.20
18	.35	.41	.58	.82	9.4	32	6.9	2.1	.58	.47	.64	.10
19	.35	.35	.56	.77	14	24	6.6	2.0	.58	.52	.22	.17
20	.41	.41	.54	.73	24	19	6.0	1.9	.64	.52	.47	.42
21	.41	.55	.54	.70	13	43	5.4	1.7	.58	.47	.47	.47
22	.41	.41	.52	.67	9.8	95	5.1	1.7	.58	.47	.52	.42
23	.41	.41	.52	.64	7.2	52	4.6	1.6	.58	.42	.52	.47
24	.48	.48	.50	.63	6.3	47	5.1	1.6	.64	.33	.77	.42
25	.48	.48	.50	.62	5.7	199	8.2	1.5	.58	.33	.84	.42
26	.48	.48	.51	.61	5.1	72	5.7	1.4	.52	.33	.77	.42
27	.55	.48	.54	.60	4.6	44	4.9	1.3	.47	.33	.58	.42
28	1.7	.48	1.4	.60	4.2	32	4.4	1.2	.47	.29	.47	.47
29	.48	.41	1.7	.61	---	22	4.2	1.1	.37	.25	.37	.42
30	.72	.41	.82	.63	---	18	3.9	1.0	2.0	.29	.33	.42
31	1.2	---	.62	4.0	---	14	---	1.1	---	.25	.33	---
TOTAL	14.62	14.40	26.73	39.94	810.9	1274.8	315.0	70.6	22.79	14.77	9.58	10.02
MEAN	.47	.48	.86	1.29	29.0	41.1	10.5	2.28	.76	.48	.31	.33
MAX	1.7	1.1	3.2	4.6	130	199	29	3.7	2.0	.92	.84	.47
MIN	.11	.35	.48	.48	4.2	3.3	3.9	1.0	.37	.25	.06	.10
AC=FT	29	29	53	79	1610	2530	625	140	45	29	19	20
CAL YR 1974	TOTAL	2302.13	MEAN	6.31	MAX	207	MIN	.08	AC=FT	4570		
WTR YR 1975	TOTAL	2624.15	MEAN	7.19	MAX	199	MIN	.06	AC=FT	5210		

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-2	unknown	4.26	163	3-16	0530	3.98	97
2-9	2315	4.57	265	3-21	2230	4.84	376
2-13	1345	4.09	120	3-25	0700	4.73	328
3-8	0945	4.48	223				

## ALAMEDA CREEK BASIN

11173200 ARROYO HONDO NEAR SAN JOSE, CALIF.

LOCATION.--Lat 37°27'42", long 121°46'06", in NE¼NE¼ sec.32, T.5 S., R.2 E., Santa Clara County, on right bank 150 ft (46 m) upstream from road bridge, 3.5 mi (5.6 km) southeast of Calaveras Dam, 3.5 mi (5.6 km) northeast of city limits of San Jose.

DRAINAGE AREA.--77.1 mi<sup>2</sup> (199.7 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 783.86 ft (238.921 m) above mean sea level.

AVERAGE DISCHARGE.--7 years, 57.8 ft<sup>3</sup>/s (1.637 m<sup>3</sup>/s), 41,880 acre-ft/yr (51.6 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 3,750 ft<sup>3</sup>/s (106 m<sup>3</sup>/s) Feb. 2 (gage height, 10.28 ft or 3.133 m); minimum daily, 0.89 ft<sup>3</sup>/s (0.025 m<sup>3</sup>/s) Oct. 1.  
Period of record: Maximum discharge, 4,620 ft<sup>3</sup>/s (131 m<sup>3</sup>/s) Jan. 26, 1969 (gage height, 10.94 ft or 3.335 m); minimum daily, 0.11 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) July 28-30, 1972.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.89	6.3	3.9	8.1	497	37	110	41	11	5.9	2.6	2.8
2	1.1	5.1	4.6	7.1	1640	34	93	39	11	6.1	2.6	2.6
3	1.2	4.2	3.9	6.5	411	31	86	37	12	6.1	2.5	2.5
4	1.2	3.8	93	6.3	670	29	85	37	11	6.1	2.5	2.5
5	1.2	3.6	33	6.3	297	30	155	35	11	6.1	2.4	2.4
6	1.3	3.5	16	67	159	37	175	33	10	5.7	2.2	2.4
7	1.5	3.6	11	141	306	707	165	32	10	5.5	2.0	2.2
8	1.8	4.9	8.8	104	253	1180	201	30	9.9	5.1	2.1	2.2
9	1.9	5.3	7.6	86	953	517	184	29	9.3	4.9	2.0	2.2
10	1.9	4.4	6.9	57	942	355	173	27	8.8	4.6	2.0	2.1
11	1.7	4.1	6.3	53	398	303	146	26	8.6	4.2	2.0	2.1
12	1.7	3.8	6.3	34	232	222	124	26	8.3	4.1	2.0	2.1
13	1.7	3.6	6.1	24	847	227	109	24	8.1	4.2	2.0	2.1
14	1.6	3.5	6.1	20	510	349	101	23	7.8	4.2	2.0	2.2
15	1.6	3.5	6.1	16	269	337	101	23	7.6	4.6	2.0	2.2
16	1.5	3.3	6.1	14	177	635	87	23	7.4	5.3	2.0	2.2
17	1.4	3.3	5.7	13	126	381	89	22	7.6	5.5	2.0	2.2
18	1.3	3.6	5.5	11	96	269	77	21	7.8	4.7	2.8	2.2
19	1.3	3.8	5.3	10	92	206	69	20	8.1	4.4	3.5	2.2
20	1.3	3.9	5.1	9.9	139	165	65	19	8.6	4.2	4.7	2.4
21	1.2	3.9	5.1	9.3	95	186	59	19	8.3	4.1	4.1	2.4
22	1.2	5.5	4.9	8.8	78	838	55	18	7.6	3.8	3.8	2.2
23	1.2	5.5	4.9	8.3	66	408	52	17	7.4	3.6	3.3	2.2
24	1.2	4.9	4.7	8.1	59	318	54	17	7.4	3.3	3.2	2.1
25	1.3	4.4	4.7	7.8	53	1030	68	16	7.8	3.0	3.0	2.1
26	1.3	4.4	4.7	7.8	47	576	62	15	7.4	2.9	2.9	2.0
27	1.4	4.2	5.3	7.6	42	362	54	15	6.9	2.8	2.8	2.0
28	3.0	4.1	19	7.6	39	255	49	14	6.5	2.6	2.8	2.0
29	16	4.1	28	7.8	---	190	45	13	6.1	2.5	2.8	1.9
30	8.3	3.9	15	7.6	---	155	43	13	5.9	2.5	2.8	1.8
31	6.1	---	9.9	8.3	---	133	---	12	---	2.5	2.8	---
TOTAL	71.29	126.0	388.6	783.2	9493	10502	2936	736	255.2	135.1	82.2	66.5
MEAN	2.30	4.20	12.5	25.3	339	339	97.9	23.7	8.51	4.36	2.65	2.22
MAX	16	6.3	93	141	1640	1180	201	41	12	6.1	4.7	2.8
MIN	.89	3.3	3.9	6.3	39	29	43	12	5.9	2.5	2.0	1.8
AC-FT	141	250	771	1550	18830	20830	5820	1460	506	268	163	132
CAL YR 1974 TOTAL	18799.46			MEAN 51.5	MAX 1260	MIN .44	AC-FT 37290					
WTR YR 1975 TOTAL	25575.09			MEAN 70.1	MAX 1640	MIN .89	AC-FT 50730					

Peak discharge (base, 800 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-2	0400	10.28	3,750	3-8	1130	8.77	2,130
2-4	1045	7.46	1,140	3-16	0515	7.04	893
2-10	0100	8.18	1,640	3-22	0230	7.97	1,480
2-13	1330	8.01	1,510	3-25	0815	8.27	1,710

## 11176000 ARROYO MOCHO NEAR LIVERMORE, CALIF.

LOCATION.--Lat 37°37'35", long 121°42'13", in NW¼SE¼ sec.36, T.3 S., R.2 E., Alameda County, on right bank 100 ft (30 m) downstream from Mines Road bridge, 2.4 mi (3.9 km) upstream from small right-bank tributary, and 5.2 mi (8.4 km) southeast of Livermore.

DRAINAGE AREA.--38.2 mi<sup>2</sup> (98.9 km<sup>2</sup>).

PERIOD OF RECORD.--January 1912 to September 1930, October 1963 to current year. Records for water year 1914 incomplete, yearly estimate and monthly discharge only for some months, published in WSP 1315-B.

GAGE.--Water-stage recorder. Concrete control since Aug. 5, 1964 (ineffective due to gravel fill). Datum of gage is 746.49 ft (227.530 m) above mean sea level. 1912 to October 1914 at present site at different datum. November 1914 to Sept. 30, 1930, at site 1 mi (2 km) upstream at different datum.

AVERAGE DISCHARGE.--30 years, 4.45 ft<sup>3</sup>/s (0.126 m<sup>3</sup>/s), 3,220 acre-ft/yr (3.97 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 725 ft<sup>3</sup>/s (20.5 m<sup>3</sup>/s) Mar. 8 (gage height, 6.93 ft or 2.112 m); minimum daily, 0.04 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Sept. 8-15.

Period of record: Maximum discharge recorded, 1,250 ft<sup>3</sup>/s (35.4 m<sup>3</sup>/s) Jan. 22, 1967 (gage height, 5.90 ft or 1.798 m), from rating curve extended above 460 ft<sup>3</sup>/s (13.0 m<sup>3</sup>/s); maximum daily discharge, 1,000 ft<sup>3</sup>/s (28.3 m<sup>3</sup>/s) Jan. 25, 1914 (estimated); no flow for parts of most years.

Flood of Dec. 23, 1955, discharge 1,880 ft<sup>3</sup>/s (53.2 m<sup>3</sup>/s), by slope-area measurement of maximum flow.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.36	.62	1.4	49	1.6	9.5	4.2	1.2	.64	.12	.12
2	.17	.62	.70	1.3	146	1.4	8.3	4.0	1.3	.72	.10	.12
3	.14	1.1	4.6	1.2	21	1.4	7.9	3.7	1.3	.64	.08	.08
4	.14	.48	3.0	1.2	27	1.4	7.9	4.0	1.2	.72	.08	.06
5	.14	.36	2.2	1.2	18	1.4	17	3.7	.99	.80	.06	.05
6	.14	.36	1.4	1.3	8.7	1.6	15	3.7	.99	.72	.06	.05
7	.14	.36	1.2	3.0	6.9	143	12	3.5	.89	.72	.05	.05
8	.14	.36	1.1	2.7	6.2	284	19	3.5	1.1	.44	.05	.04
9	.14	.42	.98	3.0	49	69	14	3.3	.99	.44	.05	.04
10	.17	.42	.88	2.8	55	40	11	3.1	.89	.50	.05	.04
11	.17	.42	.88	2.3	19	31	9.5	2.9	.80	.49	.05	.04
12	.17	.42	.88	2.0	10	19	8.3	2.9	.80	.48	.05	.04
13	.17	.42	.88	1.7	39	26	7.6	2.7	.72	.48	.05	.04
14	.17	.42	.88	1.6	31	46	6.9	2.7	.72	.50	.05	.04
15	.17	.42	.88	1.4	13	31	7.2	2.7	.80	.50	.05	.04
16	.17	.42	.88	1.4	7.6	82	6.9	2.9	.72	.50	.05	.05
17	.17	.42	.88	1.3	5.3	39	11	2.9	.80	.44	.05	.05
18	.17	.42	.88	1.3	4.0	24	9.1	3.7	.80	.44	.06	.05
19	.17	.42	.79	1.3	3.5	16	6.9	4.7	.80	.44	.15	.05
20	.14	.48	.79	1.2	3.5	13	6.2	3.7	.89	.44	.18	.06
21	.14	.62	.79	1.2	2.9	23	5.6	3.5	.89	.44	.12	.06
22	.14	.62	.79	1.2	2.3	171	5.3	3.3	.80	.34	.10	.06
23	.14	.62	.79	1.2	2.0	47	5.0	3.3	.80	.29	.10	.06
24	.14	.62	.79	1.2	1.8	31	5.0	2.3	.80	.25	.10	.06
25	.14	.62	.79	1.2	1.8	73	6.2	2.5	.89	.25	.10	.06
26	.14	.62	.79	1.2	1.7	39	5.9	2.0	.99	.18	.08	.06
27	.14	.62	.88	1.2	1.6	26	5.0	2.2	.89	.18	.08	.06
28	.21	.62	4.1	1.2	1.6	19	4.5	1.7	.72	.12	.08	.06
29	.21	.62	3.4	1.2	---	15	4.2	1.6	.64	.12	.08	.06
30	.26	.62	2.2	1.3	---	13	4.0	1.4	.64	.12	.08	.06
31	.36	---	1.7	1.7	---	11	---	1.3	---	.12	.10	---
TOTAL	5.18	15.30	42.32	48.4	538.4	1339.8	251.9	93.6	26.76	13.46	2.46	1.71
MEAN	.17	.51	1.37	1.56	19.2	43.2	8.40	3.02	.89	.43	.079	.057
MAX	.36	1.1	4.6	3.0	146	284	19	4.7	1.3	.80	.18	.12
MIN	.14	.36	.62	1.2	1.6	1.4	4.0	1.3	.64	.12	.05	.04
AC=FT	10	30	84	96	1070	2660	500	186	53	27	4.9	3.4
CAL YR 1974	TOTAL	1169.14	MEAN 3.20	MAX 69	MIN .11	AC=FT 2320						
WTR YR 1975	TOTAL	2379.29	MEAN 6.52	MAX 284	MIN .04	AC=FT 4720						

Peak discharge (base, 90 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-2	0445	6.32	300	3-16	0545	5.89	138
2-10	0330	5.77	101	3-22	0400	6.48	386
2-13	1630	5.76	99	3-25	0900	5.95	135
3-8	1015	6.93	725				

## ALAMEDA CREEK BASIN

11176200 ARROYO MOCHO NEAR PLEASANTON, CALIF.

LOCATION.--Lat 37°41'26", long 121°52'20", in Santa Rita Grant, Alameda County, on right bank 0.3 mi (0.5 km) upstream from Santa Rita Road, 0.8 mi (1.3 km) downstream from Arroyo Las Positas, and 2 mi (3 km) north of Pleasanton.

DRAINAGE AREA.--143 mi<sup>2</sup> (370 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 319.51 ft (97.387 m) above mean sea level. Prior to Oct. 30, 1967, at site 0.4 mi (0.6 km) downstream at different datum. Dec. 8, 1967, to July 7, 1968, nonrecording gage at bridge 0.3 mi (0.5 km) downstream at different datum.

AVERAGE DISCHARGE.--13 years, 14.7 ft<sup>3</sup>/s (0.416 m<sup>3</sup>/s), 10,650 acre-ft/yr (13.1 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 682 ft<sup>3</sup>/s (19.3 m<sup>3</sup>/s) Mar. 21 (gage height, 10.53 ft or 3.210 m); minimum daily, 0.43 ft<sup>3</sup>/s (0.012 m<sup>3</sup>/s) Jan. 30.

Period of record: Maximum discharge, 1,760 ft<sup>3</sup>/s (49.8 m<sup>3</sup>/s) Feb. 1, 1963 (gage height, 8.60 ft or 2.621 m, site and datum then in use), from rating curve extended above 58 ft<sup>3</sup>/s (1.64 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times.

REMARKS.--Records good. No regulation. Waste water from Livermore sewage disposal plant and gravel operations enters stream about 4 mi (6 km) upstream from gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	7.8	6.0	6.5	53	5.8	9.7	12	13	7.0	7.6	4.9
2	7.0	6.7	10	6.8	147	5.9	8.2	13	10	5.7	7.3	6.3
3	7.6	6.6	31	6.8	19	6.2	8.7	18	9.5	4.9	6.4	5.1
4	7.8	7.0	8.7	5.7	29	5.1	8.5	11	9.5	4.4	4.9	7.0
5	7.3	6.0	6.1	5.6	15	6.9	60	11	9.8	8.4	8.2	12
6	7.2	5.4	5.4	29	2.3	9.5	34	11	11	4.4	8.4	12
7	7.6	8.5	5.6	13	7.6	107	23	11	9.5	9.2	6.7	8.4
8	7.0	9.8	5.6	13	4.3	251	68	9.0	11	6.2	5.0	6.3
9	8.0	6.3	6.0	7.3	81	74	30	6.4	11	4.7	4.0	6.2
10	7.2	5.6	5.8	5.5	110	63	15	12	7.7	4.8	3.9	3.9
11	7.8	6.7	5.6	5.1	22	32	12	19	8.5	12	5.5	6.1
12	7.7	7.0	5.4	4.9	7.6	14	12	10	10	13	4.3	8.6
13	7.1	6.0	5.5	4.9	30	160	14	7.0	5.9	12	4.1	13
14	7.3	6.1	5.3	4.3	37	94	15	8.0	12	8.5	4.5	9.3
15	7.1	6.0	5.2	4.6	9.9	34	12	13	16	8.0	9.0	6.6
16	6.6	6.1	5.5	4.1	3.3	123	9.7	9.9	12	7.2	11	6.9
17	6.8	5.8	5.5	4.3	2.1	45	19	7.8	11	9.1	11	4.8
18	6.4	6.6	5.4	4.7	5.0	22	11	8.8	9.3	9.2	11	3.8
19	5.6	6.1	5.4	4.9	3.7	12	15	9.5	12	11	6.4	5.2
20	5.6	6.0	5.4	6.2	1.5	8.0	15	7.4	14	7.3	7.4	7.3
21	6.8	8.0	5.0	5.0	1.0	94	11	7.5	13	7.2	8.1	8.2
22	5.4	6.5	5.0	4.9	.87	419	6.1	6.9	12	7.9	7.5	6.7
23	4.9	6.0	4.9	4.9	2.7	95	3.8	7.4	11	6.5	9.4	6.7
24	6.6	6.0	4.9	4.9	8.0	43	5.9	7.8	8.0	5.8	12	3.5
25	6.8	6.0	5.2	1.4	8.5	292	6.9	7.9	6.7	5.8	8.0	3.5
26	4.0	6.0	4.9	.85	6.6	64	6.4	9.0	3.9	14	7.4	5.4
27	7.2	6.0	6.6	.47	6.0	29	9.5	9.1	7.0	8.7	11	11
28	10	6.0	12	.45	5.8	19	12	6.6	9.3	7.0	7.0	8.6
29	7.7	6.0	7.1	.71	---	14	9.5	8.1	11	7.0	11	5.0
30	7.0	6.0	4.8	.43	---	9.9	11	10	7.8	5.4	12	2.7
31	10	---	4.8	5.0	---	9.2	---	12	---	8.0	5.2	---
TOTAL	218.6	194.6	209.6	176.21	629.77	2166.5	481.9	307.1	302.4	240.3	235.2	205.0
MEAN	7.05	6.49	6.76	5.68	22.5	69.9	16.1	9.91	10.1	7.75	7.59	6.83
MAX	10	9.8	31	29	147	419	68	19	16	14	12	13
MIN	4.0	5.4	4.8	.43	.87	5.1	3.8	6.4	3.9	4.4	3.9	2.7
AC-FT	434	386	416	350	1250	4300	956	609	600	477	467	407
CAL YR 1974 TOTAL	2697.34			MEAN 7.39	MAX 137	MIN .50	AC-FT 5350					
WTR YR 1975 TOTAL	5367.18			MEAN 14.7	MAX 419	MIN .43	AC-FT 10650					

Peak discharge (base, 250 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-2	0430	9.71	370	3-13	1530	9.96	464
2-9	2230	9.56	313	3-21	2200	10.53	682
3-8	1500	10.19	547	3-25	0745	10.14	528

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CALIF.

LOCATION.--Lat 37°39'46", long 121°54'19", in Santa Rita Grant, Alameda County, on right bank 250 ft (76 m) upstream from Arroyo Valle, 1.0 mi (1.6 km) downstream from Arroyo Mocho, and 1.8 mi (2.9 km) west of Pleasanton.

DRAINAGE AREA.--224 mi<sup>2</sup> (580 km<sup>2</sup>).

PERIOD OF RECORD.--October 1974 to September 1975.

GAGE.--Water-stage recorder. Altitude of gage is 300 ft (91 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, not determined; minimum daily, 4.0 ft<sup>3</sup>/s (0.11 m<sup>3</sup>/s) Jan. 17-19, Jan. 26.

REMARKS.--Records fair. Flow partly regulated by South Bay Aqueduct and by waste water from Valley Community Services District (VCSD) sewage disposal plant which enters stream 1.7 mi (2.7 km) upstream from station. Records published for flows of 50 ft<sup>3</sup>/s (1.42 m<sup>3</sup>/s) or less for water-quality monitoring purposes.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	13	11	13	---	8.4	24	22	20	17	13	10
2	9.0	12	17	13	---	8.4	19	21	19	14	13	12
3	9.0	11	34	13	29	9.6	20	24	17	17	11	11
4	9.5	11	19	13	---	8.1	---	20	17	12	11	11
5	9.5	12	13	12	23	16	---	21	18	18	12	13
6	9.5	11	13	---	11	14	---	21	18	14	14	19
7	9.5	19	12	22	17	---	---	21	18	18	15	15
8	9.5	16	12	37	16	---	---	21	19	18	13	12
9	9.5	11	14	18	---	39	---	18	21	15	12	12
10	9.5	11	13	13	---	---	40	20	20	15	11	10
11	9.5	10	13	12	28	30	33	25	21	19	11	10
12	9.5	12	13	12	21	18	32	22	22	20	11	13
13	9.5	10	13	12	---	---	30	18	17	20	9.0	15
14	9.5	11	13	12	35	---	29	19	17	16	8.0	17
15	9.5	11	13	12	20	---	28	21	21	19	13	12
16	9.5	10	14	8.5	16	---	25	21	20	14	12	11
17	9.6	11	14	4.0	13	38	29	18	19	14	13	11
18	9.9	11	13	4.0	14	24	26	18	17	16	16	9.0
19	9.6	11	13	4.0	19	19	28	20	19	17	12	9.0
20	9.9	11	14	5.0	12	16	28	16	20	15	8.0	11
21	11	19	13	7.0	10	---	25	17	19	16	11	13
22	9.9	13	14	8.0	12	---	21	16	19	14	9.0	13
23	9.9	11	13	7.0	11	---	19	19	21	13	11	11
24	9.6	10	13	8.0	12	---	23	17	22	13	13	10
25	11	11	13	6.0	9.6	---	22	18	16	15	14	9.0
26	8.4	10	13	4.0	9.3	---	19	17	13	21	10	9.0
27	9.6	11	26	7.0	9.6	---	20	18	16	15	11	11
28	22	9.6	24	9.6	8.7	16	24	16	16	14	11	15
29	13	9.6	14	7.8	---	13	20	16	24	14	12	11
30	10	9.9	12	5.8	---	11	21	17	21	13	14	9.0
31	18	---	12	---	---	13	---	19	---	14	12	---
TOTAL	322.4	349.1	458	---	---	---	---	597	567	490	366.0	354.0
MEAN	10.4	11.6	14.8	---	---	---	---	19.3	18.9	15.8	11.8	11.8
MAX	22	19	34	---	---	---	---	25	24	21	16	19
MIN	8.4	9.6	11	---	---	---	---	16	13	12	8.0	9.0
AC-FT	639	692	908	---	---	---	---	1180	1120	972	726	702

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water year 1975 (partial-record station).

Specific conductance: December 1974 to September 1975.

Water temperatures: December 1974 to September 1975.

EXTREMES.--December 1974 to September 1975:

Specific conductance: Maximum daily, 1,800 micromhos Jan. 21; minimum daily, 233 micromhos Mar. 13.

Water temperatures: Maximum, 32.0°C June 13, July 24; minimum, 4.5°C Jan. 2.

REMARKS.--Chemical-quality samples collected by Alameda County Water District. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT. 15...	1105	9.5	54	37	170	14	--	.10	--	14	--
JAN. 24...	1100	8.0	48	30	200	--	11	--	.09	--	11
APR. 30...	1120	21	58	40	160	--	9.8	--	.11	--	9.9
JULY 23...	1055	13	56	40	150	--	9.0	--	.12	--	9.1

DATE	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (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)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT. 15...	.56	--	738	1.00	18.9	290	1220	--	10	.2
JAN. 24...	--	5.1	728	.99	15.7	240	--	7.8	20	.2
APR. 30...	--	.45	702	.95	39.8	310	1150	--	25	1.8
JULY 23...	--	.08	679	.92	23.8	300	1100	--	20	.1

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), DECEMBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	1260	1160	1190
2							---	---	---	1230	1150	1180
3							---	---	---	1230	1150	1190
4							---	---	---	1240	1010	1150
5							---	---	---	1240	1170	1210
6							---	---	---	1240	321	699
7							---	---	---	1140	642	991
8							---	---	---	988	446	668
9							---	---	---	1260	733	1070
10							---	---	---	1310	1220	1260
11							---	---	---	1370	1280	1310
12							---	---	---	1320	1270	1290
13							---	---	---	1310	1240	1270
14							---	---	---	1360	1250	1270
15							---	---	---	1330	1250	1280
16							---	---	---	1350	1230	1280
17							---	---	---	1350	1240	1270
18							---	---	---	1360	1260	1300
19							---	---	---	1350	1250	1280
20							---	---	---	1390	1250	1290
21							---	---	---	1800	1300	1410
22							---	---	---	1340	1290	1310
23							---	---	---	1420	1300	1360
24							1270	1220	1240	1360	1300	1330
25							1260	1180	1210	1420	1340	1370
26							1250	1190	1220	1390	1330	1340
27							1240	382	961	1370	1290	1330
28							999	557	809	1340	1260	1320
29							1510	981	1330	1340	1140	1250
30							1290	1160	1250	1410	1290	1330
31							1260	1170	1230	1420	423	1240
MONTH							---	---	---	1800	321	1230

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), DECEMBER 1974 TO SEPTEMBER 1975

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	697	451	566	1400	1330	1360	1210	1140	1170	1140	1000	1080
2	713	457	600	1500	1330	1390	1260	1210	1230	1160	1100	1130
3	996	718	845	1380	1320	1350	1330	1260	1290	1110	1070	1080
4	1010	594	785	1420	1350	1390	---	---	---	1170	1100	1150
5	1050	894	1010	1450	975	1310	---	---	---	1150	1100	1130
6	1430	1050	1200	1230	1070	1130	---	---	---	1180	1080	1120
7	1510	1250	1340	1230	445	663	---	---	---	1240	1160	1190
8	1470	1250	1340	581	443	509	---	---	---	1280	1220	1240
9	1420	644	844	882	548	684	---	---	---	1270	1220	1250
10	858	730	774	911	529	700	---	---	---	1200	1150	1170
11	960	830	895	1100	802	967	---	---	---	1120	947	1000
12	1130	957	1040	1420	1110	1220	---	---	---	990	920	950
13	1150	813	905	1480	233	852	---	---	---	1050	973	993
14	975	865	936	1140	530	603	---	---	---	1070	1040	1060
15	1120	991	1040	675	595	633	---	---	---	1050	1010	1030
16	1260	1130	1180	648	582	607	---	---	---	1050	980	1060
17	1380	1280	1330	1180	613	845	---	---	---	1130	1070	1100
18	1430	1390	1410	1360	1180	1230	---	---	---	1170	1120	1130
19	1480	981	1390	1460	1360	1430	1190	1150	1160	1180	1140	1160
20	1240	1020	1140	1560	1450	1520	1180	1150	1170	1230	1190	1200
21	1330	1250	1280	1580	934	1390	1170	1130	1150	1260	1130	1200
22	1320	1180	1250	1010	842	906	1170	1140	1150	1220	1150	1190
23	1520	1240	1370	832	764	793	1170	1130	1150	1160	1090	1130
24	1600	1350	1450	770	600	684	1200	1160	1180	1200	1120	1160
25	1410	1330	1360	605	515	551	1430	1160	1190	1220	1070	1170
26	1470	1340	1400	548	502	518	1220	1170	1200	1230	1130	1200
27	1390	1280	1350	652	544	589	1250	1190	1230	1210	1130	1160
28	1460	1320	1360	884	650	742	1150	1010	1080	1290	1210	1240
29	---	---	---	1020	891	936	1180	1110	1140	1300	1140	1250
30	---	---	---	1090	1020	1040	1220	1080	1170	1260	1160	1220
31	---	---	---	1160	1080	1110	---	---	---	1180	1030	1100
MONTH	1600	451	1120	1580	233	957	---	---	---	1300	920	1140
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1190	1090	1150	1230	1090	1160	---	---	---	---	---	---
2	1200	1120	1160	1290	1100	1210	---	---	---	---	---	---
3	1200	1140	1180	1280	1140	1200	---	---	---	---	---	---
4	1240	1180	1210	1320	1140	1250	---	---	---	---	---	---
5	1260	1200	1230	1190	1100	1150	---	---	---	---	---	---
6	1240	1040	1150	1350	1090	1210	---	---	---	1100	995	1050
7	1250	1110	1170	1360	1100	1200	---	---	---	1160	1030	1090
8	1220	1120	1180	1290	1160	1220	---	---	---	1220	1150	1170
9	1230	1130	1170	1300	1220	1250	---	---	---	1250	1150	1180
10	1360	1170	1240	1310	1190	1260	---	---	---	1220	1130	1170
11	1420	1210	1330	1290	1070	1170	---	---	---	1200	1130	1170
12	1270	1200	1240	1260	1080	1130	---	---	---	1180	1110	1160
13	1400	1230	1320	1110	1030	1050	---	---	---	1160	1090	1130
14	1330	1120	1270	1180	1090	1130	---	---	---	1120	972	1040
15	1190	1110	1150	1230	1160	1200	---	---	---	1190	1120	1160
16	1220	1120	1150	1260	1210	1230	---	---	---	1190	1070	1140
17	1240	1200	1220	1240	1130	1170	---	---	---	1200	1150	1170
18	1260	1230	1250	1210	1180	1190	---	---	---	1220	1150	1200
19	1290	1180	1240	1200	1100	1150	---	---	---	1210	1090	1180
20	1240	1180	1200	1150	1090	1120	---	---	---	1190	1040	1110
21	1210	1160	1190	1160	1060	1140	---	---	---	1100	1040	1070
22	1190	1120	1160	1140	1080	1110	---	---	---	1180	1060	1090
23	1220	1160	1190	---	---	---	---	---	---	1200	1030	1110
24	1250	1170	1220	1210	1090	1170	---	---	---	1210	1050	1140
25	1310	1100	1240	---	---	---	---	---	---	1260	1090	1240
26	1320	1120	1230	1190	998	1090	---	---	---	1240	1120	1180
27	1270	1120	1220	1120	1010	1050	---	---	---	1210	954	1100
28	1160	1090	1130	---	---	---	---	---	---	1100	948	1030
29	1160	957	1050	---	---	---	---	---	---	1230	1120	1150
30	1190	1070	1140	---	---	---	---	---	---	1320	1200	1250
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	1420	957	1200	1360	998	1170	---	---	---	1320	948	1140

11176350 ARROYO DE LA LAGUNA ABOVE ARROYO VALLE, NEAR PLEASANTON, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, DECEMBER 1974 TO SEPTEMBER 1975

DAY	MAX	OCT DAILY	MIN	MAX	NOV DAILY	MIN	MAX	DEC DAILY	MIN	MAX	JAN DAILY	MIN	MAX	FEB DAILY	MIN	MAX	MAR DAILY	MIN
1	--	--	--	--	--	--	--	--	--	12.5	--	6.5	11.0	--	8.0	17.5	--	13.5
2	--	--	--	--	--	--	--	--	--	13.5	--	4.5	11.0	--	9.5	20.0	--	14.0
3	--	--	--	--	--	--	--	--	--	13.0	--	6.5	13.5	--	9.0	21.5	--	12.0
4	--	--	--	--	--	--	--	--	--	14.0	--	9.0	12.0	--	9.0	21.5	--	12.5
5	--	--	--	--	--	--	--	--	--	14.0	--	8.0	14.0	--	10.0	15.5	--	13.0
6	--	--	--	--	--	--	--	--	--	13.0	--	10.5	14.5	--	12.0	19.0	--	13.0
7	--	--	--	--	--	--	--	--	--	15.5	--	12.0	17.0	--	13.0	15.0	--	12.5
8	--	--	--	--	--	--	--	--	--	13.5	--	10.0	18.0	--	14.0	14.0	--	11.5
9	--	--	--	--	--	--	--	--	--	13.5	--	7.0	16.5	--	13.0	15.0	--	10.0
10	--	--	--	--	--	--	--	--	--	14.5	--	11.0	13.5	--	11.0	12.5	--	10.0
11	--	--	--	--	--	--	--	--	--	17.5	--	12.5	16.5	--	10.5	18.0	--	10.0
12	--	--	--	--	--	--	--	--	--	16.5	--	9.5	15.5	--	12.0	--	--	--
13	--	--	--	--	--	--	--	--	--	16.5	--	9.0	16.5	--	13.0	15.0	--	8.0
14	--	--	--	--	--	--	--	--	--	16.5	--	8.0	15.5	--	10.5	13.0	--	5.5
15	--	--	--	--	--	--	--	--	--	15.5	--	9.5	15.5	--	9.5	12.0	--	7.5
16	--	--	--	--	--	--	--	--	--	17.0	--	9.5	16.0	--	10.5	12.0	--	6.0
17	--	--	--	--	--	--	--	--	--	16.5	--	9.5	16.0	--	9.0	14.0	--	7.5
18	--	--	--	--	--	--	--	--	--	17.0	--	11.0	17.5	--	10.5	17.5	--	10.0
19	--	--	--	--	--	--	--	--	--	17.0	--	11.0	16.0	--	14.0	16.5	--	10.5
20	--	--	--	--	--	--	--	--	--	17.5	--	11.5	16.0	--	10.5	18.5	--	8.0
21	--	--	--	--	--	--	--	--	--	17.0	--	10.5	15.5	--	9.0	12.5	--	8.5
22	--	--	--	--	--	--	--	--	--	17.0	--	9.5	17.0	--	7.5	12.0	--	7.0
23	--	--	--	--	--	--	--	12.5	--	18.0	--	9.5	20.5	--	10.0	15.5	--	8.5
24	--	--	--	--	--	--	--	13.5	--	6.5	--	11.0	18.5	--	11.0	15.5	--	11.5
25	--	--	--	--	--	--	--	13.0	--	6.5	--	11.5	20.5	--	10.0	14.0	--	10.0
26	--	--	--	--	--	--	--	14.0	--	6.5	--	13.5	20.5	--	10.5	13.5	--	5.5
27	--	--	--	--	--	--	--	12.0	--	8.5	--	10.0	21.5	--	12.5	15.5	--	7.5
28	--	--	--	--	--	--	--	10.5	--	8.0	--	9.5	23.0	--	13.0	15.5	--	4.5
29	--	--	--	--	--	--	--	12.5	--	6.5	--	9.5	--	--	--	18.5	--	8.0
30	--	--	--	--	--	--	--	11.5	--	6.5	--	8.0	--	--	--	20.0	--	11.0
31	--	--	--	--	--	--	--	12.0	--	6.0	--	8.5	--	--	--	20.0	--	12.5
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	19.5	--	4.5	23.0	--	7.5
21.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.5
DAY	MAX	APR DAILY	MIN	MAX	MAY DAILY	MIN	MAX	JUN DAILY	MIN	MAX	JUL DAILY	MIN	MAX	AUG DAILY	MIN	MAX	SEP DAILY	MIN
1	21.0	--	10.0	24.0	--	14.5	28.5	--	18.0	27.0	--	17.0	--	29.0	--	--	--	--
2	21.0	--	10.5	24.0	--	14.5	26.5	--	18.0	28.0	--	17.0	--	30.0	--	--	--	--
3	17.5	--	12.0	19.0	--	13.5	30.0	--	17.5	27.5	--	18.0	--	30.0	--	--	--	--
4	--	18.0	--	23.0	--	11.5	31.0	--	19.0	24.5	--	18.5	--	29.5	--	--	29.0	--
5	--	--	--	24.5	--	12.0	30.0	--	18.5	28.0	--	17.5	--	28.5	--	--	27.5	--
6	--	--	--	25.5	--	13.5	29.5	--	18.0	30.5	--	19.0	--	27.5	--	26.0	--	19.5
7	--	16.5	--	26.0	--	14.0	29.0	--	17.0	29.0	--	19.5	--	29.0	--	25.5	--	18.0
8	--	--	--	26.5	--	15.5	30.5	--	18.0	30.0	--	19.0	--	30.0	--	20.5	--	18.5
9	--	--	--	27.0	--	16.0	31.5	--	18.5	30.0	--	19.0	--	30.0	--	26.5	--	18.0
10	--	--	--	26.0	--	16.0	31.5	--	19.0	31.0	--	19.5	--	30.5	--	25.5	--	18.0
11	--	--	--	27.5	--	16.5	28.5	--	18.5	29.0	--	19.0	--	29.0	--	27.5	--	18.5
12	--	--	--	29.5	--	16.5	30.0	--	18.0	28.0	--	19.0	--	28.0	--	26.0	--	18.5
13	--	--	--	30.0	--	18.0	32.0	--	19.5	29.0	--	18.5	--	27.0	--	24.5	--	19.0
14	--	--	--	25.0	--	17.0	29.5	--	18.5	28.5	--	19.5	--	27.0	--	24.0	--	18.5
15	--	--	--	25.0	--	16.0	28.5	--	18.5	24.0	--	20.5	--	--	--	25.5	--	18.5
16	--	18.0	--	27.5	--	15.5	27.5	--	18.0	29.5	--	20.0	--	--	--	26.0	--	17.5
17	--	20.0	--	30.5	--	15.5	26.0	--	16.5	29.0	--	20.5	--	--	--	25.5	--	18.5
18	--	21.0	--	30.0	--	17.0	27.5	--	16.0	28.0	--	20.5	--	--	--	27.5	--	18.5
19	20.0	--	13.0	26.5	--	17.0	21.0	--	17.0	28.5	--	20.5	--	--	--	26.0	--	18.0
20	24.0	--	12.5	22.0	--	13.5	27.5	--	16.5	29.5	--	20.5	--	--	--	25.5	--	17.0
21	23.5	--	14.0	26.0	--	14.0	27.0	--	17.0	30.0	--	21.0	--	--	--	26.0	--	17.5
22	19.0	--	14.0	27.5	--	15.0	28.5	--	17.0	30.5	--	20.0	--	28.0	--	26.0	--	18.0
23	22.5	--	14.0	29.0	--	15.5	24.0	--	17.0	--	--	--	--	--	--	26.0	--	17.0
24	19.5	--	15.5	30.5	--	17.0	26.0	--	17.0	32.0	--	19.5	--	--	--	28.5	--	18.0
25	22.5	--	13.0	30.0	--	17.5	28.0	--	16.0	--	--	--	--	--	--	29.5	--	19.0
26	23.5	--	12.0	29.5	--	17.5	29.5	--	16.5	30.0	--	21.0	--	--	--	27.0	--	18.5
27	25.0	--	13.0	30.5	--	18.0	29.5	--	17.5	30.5	--	21.5	--	--	--	25.0	--	17.5
28	25.0	--	13.5	29.0	--	18.5	29.0	--	18.0	--	29.5	--	--	25.0	--	24.0	--	17.0
29	25.5	--	13.5	31.0	--	19.0	28.5	--	18.5	--	27.5	--	--	--	--	25.5	--	16.5
30	25.5	--	15.0	31.0	--	19.0	27.0	--	17.5	--	28.0	--	--	--	--	26.5	--	17.0
31	--	--	--	30.5	--	18.0	--	--	--	--	28.5	--	--	--	--	--	--	--
MONTH	--	--	--	31.0	--	11.5	32.0	--	16.0	32.0	--	17.0	--	--	--	29.5	--	16.5



11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CALIF.  
(Formerly published as Arroyo Valle above Lang Canyon, near Livermore)

LOCATION.--Lat 37°33'41", long 121°40'58", in NE¼NE¼ sec.30, T.4 S., R.3 E., Alameda County, on left bank 100 ft (30 m) upstream from small left-bank tributary, 1.2 mi (1.9 km) downstream from Lang Canyon, and 9.5 mi (15.3 km) southeast of Livermore. Prior to June 19, 1975, at site 1.4 mi (2.3 km) upstream.

DRAINAGE AREA.--130 mi<sup>2</sup> (337 km<sup>2</sup>). Area at site used prior to June 19, 1975, 126 mi<sup>2</sup> (326 km<sup>2</sup>).

PERIOD OF RECORD.--October 1963 to current year. Prior to October 1974, published as "above Lang Canyon, near Livermore".

GAGE.--Water-stage recorder. Concrete control since June 19, 1975. Altitude of gage is 750 ft (229 m), from topographic map. Prior to June 19, 1975, at site 1.4 mi (2.3 km) upstream at different datum.

AVERAGE DISCHARGE.--12 years, 31.2 ft<sup>3</sup>/s (0.884 m<sup>3</sup>/s), 22,600 acre-ft/yr (27.9 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 1,350 ft<sup>3</sup>/s (38.2 m<sup>3</sup>/s) Mar. 7 (gage height, 5.80 ft or 1.768 m, site and datum then in use); no flow many days.

Period of record: Maximum discharge, 5,340 ft<sup>3</sup>/s (151 m<sup>3</sup>/s) Jan. 25, 1969 (gage height, 8.90 ft or 2.713 m, site and datum then in use); no flow at times in each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.1	1.5	2.7	185	17	67	22	5.4	2.6	.22	
2	0	.73	2.3	2.3	601	17	61	21	5.4	2.5	0	
3	.01	.57	16	2.3	168	16	56	20	5.4	2.5	0	
4	.01	.49	19	2.3	265	15	55	20	5.1	2.6	.03	
5	.01	.45	9.0	2.5	165	15	94	19	4.8	2.5	.06	
6	.01	.45	5.1	13	84	18	102	19	4.8	2.4	.03	
7	.01	.50	3.5	17	98	513	89	17	4.4	2.0	.02	
8	.01	.69	2.7	18	103	914	107	16	4.4	1.7	0	
9	.01	.56	2.3	17	550	429	100	16	4.1	1.5	0	
10	.01	.54	2.0	11	571	262	83	15	3.8	1.2	0	
11	.02	.54	1.8	8.8	216	222	70	14	3.5	.93	0	
12	.01	.50	1.8	6.6	114	150	60	14	3.5	.68	0	
13	.01	.49	1.6	5.3	415	137	54	13	3.5	.70	0	
14	.01	.45	1.5	4.5	321	254	49	13	3.2	.65	0	
15	.01	.45	1.5	3.9	147	197	50	12	3.5	.93	0	
16	.01	.45	1.5	3.4	90	343	47	12	3.2	1.2	0	
17	.01	.45	1.5	3.1	62	233	47	12	3.3	1.2	0	
18	0	.54	1.5	2.9	46	164	42	11	3.3	1.1	0	
19	0	.54	1.3	2.7	41	128	38	10	3.3	1.2	.15	
20	.01	.52	1.3	2.5	48	101	35	9.8	3.4	.93	.25	
21	.01	.72	1.5	2.4	35	182	33	9.4	3.7	.93	.18	
22	.01	.99	1.5	2.3	28	851	29	9.1	3.6	.70	.14	
23	.01	1.3	1.5	2.2	25	372	29	8.9	3.4	.68	.12	
24	.02	1.6	1.3	2.0	23	249	29	8.8	3.4	.49	.09	
25	.02	1.6	1.1	2.0	21	586	36	8.2	3.4	.34	.04	
26	.03	1.5	1.3	2.0	19	310	32	7.6	3.4	.49	.01	
27	.04	1.5	2.3	2.0	18	207	28	7.3	3.4	.34	.01	
28	1.3	1.5	9.0	1.9	17	155	25	6.8	2.7	.34	0	
29	1.7	1.5	7.8	2.3	---	119	24	6.2	2.7	.34	0	
30	.74	1.5	4.8	2.2	---	98	22	5.8	2.7	.34	0	
31	.99	---	3.5	5.8	---	85	---	5.4	---	.32	0	---
TOTAL	5.04	24.72	114.3	158.9	4476	7359	1593	389.3	113.7	36.33	1.35	0
MEAN	.16	.82	3.69	5.13	160	237	53.1	12.6	3.79	1.17	.044	0
MAX	1.7	1.6	19	18	601	914	107	22	5.4	2.6	.25	0
MIN	0	.45	1.1	1.9	17	15	22	5.4	2.7	.32	0	0
AC-FT	10.0	49	227	315	8880	14600	3160	772	226	72	2.7	0

CAL YR 1974 TOTAL 11553.48 MEAN 31.7 MAX 664 MIN 0 AC-FT 22920  
WTR YR 1975 TOTAL 14271.64 MEAN 39.1 MAX 914 MIN 0 AC-FT 28310

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-2	0300	5.30	941	3-7	1800	5.80	1,350
2-10	0245	5.03	777	3-22	0200	5.58	1,170
2-13	1630	4.89	695	3-25	0530	5.29	954

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CALIF.--Continued

PERIOD OF RECORD.--Water temperatures: October 1973 to current year.

Sediment records: October 1973 to current year.

EXTREMES.--Current year:

Sediment concentrations: Maximum daily, 973 mg/l Mar. 8; minimum daily, no flow for many days.

Sediment discharge: Maximum daily, 2,500 tons (2,270 tonnes) Mar. 8; minimum daily, 0 tons (0 tonnes) on many days.

Period of record:

Sediment concentrations: Maximum daily, 1,050 mg/l Apr. 1, 1974; minimum daily, no flow for many days each year.

Sediment discharge: Maximum daily, 2,500 tons (2,270 tonnes) Mar. 8, 1975; minimum daily, 0 tons (0 tonnes) on many days each year.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	---	7.5	---	11.0		---			
2			---	5.0	---	---	9.5		---			
3			11.0	---	---	---	---		23.5			
4			9.5	8.0	7.5	---	---		---			
5			---	---	9.0	12.0	---		---			
6			10.0	---	10.0	---	---		---			
7			---	10.0	10.5	11.0	---		---			
8			---	---	10.0	---	9.5		---			
9			---	7.0	---	---	---		---			
10			9.0	9.0	---	---	---		---			
11			10.0	9.0	10.0	11.5	---		---			
12			---	---	10.0	12.0	---		---			
13			---	---	---	11.0	---		---			
14			11.0	4.5	9.5	8.5	---		---			
15			---	9.0	8.0	10.0	---		---			
16			---	---	---	---	---		---			
17			---	9.0	---	---	---		---			
18			9.0	---	---	---	---		---			
19			---	---	10.0	---	---		---			
20			---	---	10.0	---	---		---			
21			---	9.5	---	9.5	---		---			
22			---	---	8.5	9.5	---		---			
23			---	---	---	---	---		---			
24			---	---	---	---	---		---			
25			---	---	13.0	10.5	12.0		---			
26			7.5	---	---	10.0	---		---			
27			8.5	---	14.0	10.0	---		---			
28			7.5	8.0	---	---	---		---			
29			---	---	---	12.0	---		---			
30			---	6.5	---	---	---		---			
31			5.0	7.0	---	---	---		---			
MONTH			---	---	---	---	---		---			

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	0	0	0	1.1	5	.01	1.5	5	.02
2	0	0	0	.73	4	.01	2.3	5	.03
3	.01	2	0	.57	4	.01	16	40	1.9
4	.01	2	0	.49	4	.01	19	25	1.5
5	.01	2	0	.45	3	0	9.0	12	.29
6	.01	2	0	.45	3	0	5.1	10	.14
7	.01	2	0	.50	3	0	3.5	10	.09
8	.01	2	0	.69	3	.01	2.7	11	.08
9	.01	2	0	.56	3	0	2.3	12	.07
10	.01	2	0	.54	3	0	2.0	13	.07
11	.02	2	0	.54	3	0	1.8	16	.08
12	.01	2	0	.50	2	0	1.8	12	.06
13	.01	2	0	.49	2	0	1.6	10	.04
14	.01	2	0	.45	2	0	1.5	8	.03
15	.01	2	0	.45	2	0	1.5	8	.03
16	.01	2	0	.45	2	0	1.5	7	.03
17	.01	2	0	.45	2	0	1.5	7	.03
18	0	0	0	.54	2	0	1.5	7	.03
19	0	0	0	.54	2	0	1.3	7	.02
20	.01	2	0	.52	2	0	1.3	7	.02
21	.01	2	0	.72	5	.01	1.5	6	.02
22	.01	2	0	.99	10	.03	1.5	6	.02
23	.01	2	0	1.3	5	.02	1.5	6	.02
24	.02	2	0	1.6	5	.02	1.3	5	.02
25	.02	2	0	1.6	5	.02	1.1	5	.01
26	.03	2	0	1.5	5	.02	1.3	5	.02
27	.04	2	0	1.5	5	.02	2.3	57	.55
28	1.3	11	.05	1.5	5	.02	9.0	25	.61
29	1.7	9	.04	1.5	5	.02	7.8	15	.32
30	.74	5	.01	1.5	5	.02	4.8	10	.13
31	.99	5	.01	---	---	---	3.5	7	.07
MONTH	5.04	---	.11	24.72	---	.25	114.3	---	6.35

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.7	6	.04	185	124	159	17	5	.23
2	2.3	6	.04	601	685	1270	17	5	.23
3	2.3	7	.04	168	200	91	16	5	.22
4	2.3	8	.05	265	190	137	15	5	.20
5	2.5	8	.05	165	50	25	15	5	.20
6	13	38	2.8	84	20	4.5	18	5	.24
7	17	60	2.9	98	138	42	513	696	1810
8	18	52	2.6	103	46	14	914	973	2500
9	17	28	1.3	550	339	565	429	351	454
10	11	10	.30	571	229	394	262	150	106
11	8.8	7	.17	216	71	44	222	60	36
12	6.6	7	.12	114	38	12	150	35	14
13	5.3	8	.11	415	233	378	137	31	13
14	4.5	8	.10	321	140	140	254	101	71
15	3.9	16	.17	147	30	12	197	31	17
16	3.4	13	.12	90	25	6.1	343	165	153
17	3.1	10	.08	62	20	3.3	233	49	32
18	2.9	7	.05	46	15	1.9	164	28	12
19	2.7	8	.06	41	16	2.0	128	24	8.3
20	2.5	10	.07	48	19	2.6	101	15	4.1
21	2.4	12	.08	35	15	1.4	182	127	297
22	2.3	11	.07	28	21	1.6	851	681	1790
23	2.2	10	.06	25	15	1.0	372	148	161
24	2.0	9	.05	23	10	.62	249	43	29
25	2.0	8	.04	21	8	.45	586	413	777
26	2.0	7	.04	19	6	.31	310	109	97
27	2.0	6	.03	18	5	.24	207	45	25
28	1.9	5	.03	17	5	.23	155	30	13
29	2.3	5	.03	---	---	---	119	19	6.1
30	2.2	5	.03	---	---	---	98	15	4.0
31	5.8	12	.19	---	---	---	85	10	2.3
MONTH	158.9	---	11.82	4476	---	3309.25	7359	---	8433.12

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	67	6	1.1	22	10	.59	5.4	8	.12
2	61	16	2.6	21	10	.57	5.4	8	.12
3	56	10	1.5	20	10	.54	5.4	8	.12
4	55	10	1.5	20	10	.54	5.1	8	.11
5	94	61	16	19	10	.51	4.8	8	.10
6	102	37	10	19	10	.51	4.8	6	.08
7	89	16	4.0	17	10	.46	4.4	6	.07
8	107	46	13	16	10	.43	4.4	6	.07
9	100	24	6.4	16	10	.43	4.1	6	.07
10	83	12	2.7	15	10	.41	3.8	6	.06
11	70	10	1.9	14	10	.38	3.5	6	.06
12	60	10	1.6	14	10	.38	3.5	6	.06
13	54	10	1.5	13	10	.35	3.5	6	.06
14	49	10	1.3	13	10	.35	3.2	6	.05
15	50	10	1.4	12	10	.32	3.5	6	.06
16	47	20	2.5	12	8	.26	3.2	5	.04
17	47	18	2.3	12	8	.26	3.3	5	.04
18	42	15	1.7	11	8	.24	3.3	5	.04
19	38	12	1.2	10	8	.22	3.3	5	.04
20	35	10	.95	9.8	8	.21	3.4	5	.05
21	33	10	.89	9.4	8	.20	3.7	5	.05
22	29	10	.78	9.1	8	.20	3.6	5	.05
23	29	8	.63	8.9	8	.19	3.4	5	.05
24	29	8	.63	8.8	8	.19	3.4	4	.04
25	36	20	1.9	8.2	8	.18	3.4	4	.04
26	32	15	1.3	7.6	8	.16	3.4	4	.04
27	28	10	.76	7.3	8	.16	3.4	4	.04
28	25	10	.68	6.8	8	.15	2.7	4	.03
29	24	10	.65	6.2	8	.13	2.7	3	.02
30	22	10	.59	5.8	8	.13	2.7	3	.02
31	---	---	---	5.4	8	.12	---	---	---
MONTH	1593	---	83.96	389.3	---	9.77	113.7	---	1.80
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2.6	3	.02	.22	2	0			
2	2.5	3	.02	0	0	0			
3	2.5	3	.02	0	0	0			
4	2.6	3	.02	.03	2	0			
5	2.5	2	.01	.06	2	0			
6	2.4	2	.01	.03	2	0			
7	2.0	2	.01	.02	2	0			
8	1.7	2	.01	0	0	0			
9	1.5	2	.01	0	0	0			
10	1.2	2	.01	0	0	0			
11	.93	2	.01	0	0	0			
12	.68	2	0	0	0	0			
13	.70	2	0	0	0	0			
14	.65	2	0	0	0	0			
15	.93	2	.01	0	0	0			
16	1.2	2	.01	0	0	0			
17	1.2	2	.01	0	0	0			
18	1.1	2	.01	0	0	0			
19	1.2	2	.01	.15	5	0			
20	.93	2	.01	.25	2	0			
21	.93	2	.01	.18	2	0			
22	.70	2	0	.14	2	0			
23	.68	2	0	.12	2	0			
24	.49	2	0	.09	2	0			
25	.34	2	0	.04	2	0			
26	.49	2	0	.01	2	0			
27	.34	2	0	.01	2	0			
28	.34	2	0	0	0	0			
29	.34	2	0	0	0	0			
30	.34	2	0	0	0	0			
31	.32	2	0	0	0	0	---	---	---
MONTH	36.33	---	.22	1.35	---	0	0	---	0
YEAR 14271.64			11856.65						

11176400 ARROYO VALLE BELOW LANG CANYON, NEAR LIVERMORE, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE 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.										
03...	1210	11.0	18	54	2.6	--	--	--	--	--
27...	1650	8.5	3.2	152	1.3	--	--	--	--	--
JAN.										
07...	1255	10.0	14	59	2.2	--	--	--	--	--
FEB.										
01...	1725	7.5	227	93	57	--	--	--	--	--
04...	0855	7.5	307	227	188	43	57	68	79	85
07...	1350	10.5	119	231	74	--	--	--	--	--
13...	1630	11.0	695	518	972	26	34	45	60	76
MAR.										
07...	1300	11.0	527	672	956	38	48	57	70	83
07...	1730	11.0	1310	1950	6910	23	30	39	52	69
22...	1700	9.5	689	386	718	--	--	--	--	--

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.										
03...	--	98	--	100	--	--	--	--	--	--
27...	--	100	--	--	--	--	--	--	--	--
JAN.										
07...	--	99	--	100	--	--	--	--	--	--
FEB.										
01...	--	96	--	98	--	100	--	--	--	--
04...	--	87	--	91	--	93	--	95	99	100
07...	--	100	--	--	--	--	--	--	--	--
13...	--	88	--	96	--	99	--	100	--	--
MAR.										
07...	--	93	--	98	--	100	--	--	--	--
07...	83	--	95	--	99	--	100	--	--	--
22...	--	87	--	93	--	98	--	99	100	--

## ALAMEDA CREEK BASIN

11176500 ARROYO VALLE NEAR LIVERMORE, CALIF.

LOCATION.--Lat 37°37'24", long 121°45'28", in Valle de San Jose Grant, Alameda County, on right bank 900 ft (274 m) downstream from highway bridge, 1.1 mi (1.8 km) upstream from Dry Creek, 1.3 mi (2.1 km) downstream from Del Valle Dam, 4.1 mi (6.6 km) south of Livermore, and 6.9 mi (11.1 km) southeast of Pleasanton.

DRAINAGE AREA.--147 mi<sup>2</sup> (381 km<sup>2</sup>).

PERIOD OF RECORD.--January 1912 to September 1930, October 1957 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as Arroyo del Valle near Livermore, 1912-29.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 510.44 ft (155.582 m) above mean sea level. Prior to November 1914, at site 900 ft (274 m) upstream at different datum. Nov. 1, 1914, to Sept. 30, 1930, at site 300 ft (91 m) upstream at different datum.

AVERAGE DISCHARGE.--29 years (1912-30, 1957-68), 29.6 ft<sup>3</sup>/s (0.838 m<sup>3</sup>/s), 21,450 acre-ft/yr (26.4 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 376 ft<sup>3</sup>/s (10.6 m<sup>3</sup>/s) Mar. 25 (gage height, 3.97 ft or 1.210 m); minimum daily, 0.35 ft<sup>3</sup>/s (0.010 m<sup>3</sup>/s) Mar. 1.

Period of record: Maximum discharge, 12,200 ft<sup>3</sup>/s (346 m<sup>3</sup>/s) Apr. 2, 1958 (gage height, 10.91 ft or 3.325 m); no flow at times. Maximum discharge since construction of Del Valle Dam in 1968, 1,030 ft<sup>3</sup>/s (29.2 m<sup>3</sup>/s) Feb. 11, 1973 (gage height, 5.39 ft or 1.643 m).

Flood of Dec. 23, 1955, reached a stage of 13.93 ft (4.246 m), from floodmarks (discharge, 18,200 ft<sup>3</sup>/s or 515 m<sup>3</sup>/s, on basis of contracted-opening and slope-area measurement of maximum flow).

REMARKS.--Records good. Flow regulated by Del Valle Reservoir 1.3 mi (2.1 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm<sup>3</sup>). Water from Sacramento-San Joaquin Delta imported through South Bay Aqueduct can be pumped into Del Valle Reservoir for storage and later released into the channel for downstream percolation or returned to the South Bay Aqueduct.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	9.8	9.2	9.8	1.9	.35	1.9	8.8	9.2	46	16	24
2	12	9.8	9.5	9.8	1.3	.36	1.6	9.2	9.4	47	16	23
3	12	9.8	9.8	9.8	.79	.40	1.5	9.2	10	47	15	23
4	13	9.8	9.5	9.8	1.0	3.1	1.5	9.2	12	47	15	21
5	13	9.8	9.2	9.8	.79	4.5	1.9	9.2	11	47	15	19
6	13	9.8	9.6	7.3	.79	3.5	1.5	9.3	11	47	16	20
7	12	10	9.8	1.1	.79	4.9	1.7	9.6	10	47	16	20
8	13	10	9.8	1.1	.81	5.2	1.9	9.4	10	47	15	19
9	13	9.5	9.8	6.0	1.6	4.8	1.4	9.3	10	46	15	19
10	13	9.2	9.8	11	1.2	3.1	1.4	9.5	10	47	15	19
11	14	9.2	9.8	11	.80	4.2	1.5	9.2	10	47	15	19
12	16	9.2	9.8	10	.68	3.8	1.5	9.2	10	47	26	18
13	15	9.2	9.8	9.7	1.1	4.6	1.4	9.2	10	47	44	18
14	15	9.2	9.8	8.7	.73	5.2	1.2	9.2	9.8	47	39	18
15	15	9.6	9.8	25	.56	5.7	1.1	9.2	9.8	47	29	16
16	15	9.5	9.8	39	.54	5.7	1.3	9.3	9.8	46	43	18
17	15	9.2	9.8	39	.54	5.6	1.3	9.5	10	47	44	18
18	15	5.1	10	39	.44	5.0	1.2	9.0	10	46	44	18
19	16	.90	10	39	.48	5.2	1.1	8.8	12	47	41	18
20	7.8	1.1	9.8	29	.52	4.9	.95	9.1	13	46	33	19
21	8.2	1.5	8.7	18	.52	5.8	2.7	9.2	13	36	33	19
22	13	.74	7.7	18	.44	124	6.6	9.2	13	14	33	18
23	10	.72	8.4	18	.44	367	6.8	9.2	13	14	33	18
24	10	.72	9.2	18	.44	369	7.3	9.2	13	14	34	19
25	10	4.7	9.0	9.0	.44	371	5.3	9.1	17	15	33	19
26	10	9.1	8.7	.95	.44	370	7.3	9.0	23	15	34	18
27	9.8	9.2	9.1	.75	.47	369	7.6	9.1	32	15	34	18
28	9.8	9.2	4.9	.69	.47	369	8.0	9.1	37	15	34	18
29	9.8	9.2	1.1	.80	---	368	8.7	9.2	21	16	34	18
30	9.8	9.2	4.7	.64	---	368	8.7	9.2	33	16	34	19
31	9.9	---	9.8	.96	---	108	---	9.2	---	16	30	---
TOTAL	380.1	223.98	275.7	410.69	21.02	3268.91	97.85	285.1	422.0	1121	878	571
MEAN	12.3	7.47	8.89	13.2	.75	105	3.26	9.20	14.1	36.2	28.3	19.0
MAX	16	10	10	39	1.9	371	8.7	9.6	37	47	44	24
MIN	7.8	.72	1.1	.64	.44	.35	.95	8.8	9.2	14	15	16
AC=FT	754	444	547	815	42	6480	194	565	837	2220	1740	1130
CAL YR 1974 TOTAL	5028.71		MEAN 13.8	MAX 266	MIN .15	AC=FY 9970						
WTR YR 1975 TOTAL	7955.35		MEAN 21.8	MAX 371	MIN .35	AC=FY 15780						

## 11176500 ARROYO VALLE NEAR LIVERMORE, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water year 1953 (partial-record station), December 1958 to July 1966.  
 Water temperatures: October 1959 to September 1961, October 1962 to current year.  
 Sediment records: October 1962 to September 1967.

## EXTREMES.--Current year:

Water temperatures: Maximum, 27.5°C Aug. 4; minimum, 4.5°C Jan. 30.

Period of record:

Water temperatures: Maximum, 30.5°C June 14, 1966, June 29, 1974; minimum, 4.0°C Jan. 2, Dec. 28, 1966, Dec. 14, 1967.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	16.5	16.5	15.5	12.0	11.0	7.0	6.5	8.0	7.0	18.5	15.0
2	19.0	18.0	15.5	15.0	12.0	11.5	7.0	6.5	9.0	7.5	16.5	15.5
3	18.5	17.0	15.5	14.5	12.0	11.5	8.0	6.0	9.5	8.0	17.5	13.0
4	18.5	17.0	15.0	14.5	12.5	12.0	8.5	7.0	9.5	9.0	17.5	12.5
5	18.0	16.5	15.5	14.5	12.0	11.5	8.0	7.0	10.0	9.0	16.0	15.5
6	18.0	16.0	15.5	14.5	12.0	11.5	10.0	8.0	10.0	10.0	16.5	14.5
7	17.5	16.5	15.5	15.0	12.0	11.5	12.0	10.0	13.5	10.0	17.5	16.0
8	18.0	17.0	15.0	14.5	12.0	11.0	12.0	11.5	13.5	12.5	17.0	16.0
9	17.5	16.5	14.5	14.0	11.5	11.0	11.5	8.5	13.5	12.5	---	---
10	18.0	16.5	15.0	14.5	11.0	10.5	9.0	9.0	13.0	12.0	---	---
11	17.5	16.0	15.0	14.0	11.0	11.0	9.5	9.0	12.0	10.5	---	---
12	18.0	16.5	16.0	14.0	11.5	10.5	9.0	8.5	12.0	10.5	---	---
13	18.0	16.5	15.5	15.0	11.0	11.0	9.0	8.0	13.5	12.0	---	---
14	18.0	16.0	15.5	15.0	11.0	10.5	9.0	8.0	12.5	10.0	---	---
15	18.0	16.5	15.0	15.0	11.5	11.0	9.0	8.0	12.5	8.0	---	---
16	18.0	16.5	15.0	15.0	11.5	11.0	8.5	8.0	11.0	8.5	---	---
17	19.0	16.5	15.0	14.5	11.5	11.0	8.5	8.0	9.5	7.0	---	---
18	18.0	16.5	15.0	14.0	11.0	10.0	8.5	8.0	---	---	---	---
19	17.0	16.0	14.0	13.0	10.5	9.5	9.0	8.0	---	---	---	---
20	18.0	15.5	13.0	12.5	10.5	10.0	9.0	8.0	---	---	---	---
21	16.0	15.5	13.0	13.0	10.5	10.0	9.0	8.5	---	---	---	---
22	17.0	15.0	13.0	11.5	10.5	9.0	9.5	8.5	---	---	11.0	9.5
23	16.0	15.0	11.5	10.0	9.5	8.5	10.5	8.5	---	---	11.0	10.5
24	16.0	15.5	10.5	9.0	9.0	7.5	10.0	9.0	---	---	10.5	10.0
25	17.0	15.0	11.5	10.0	8.0	7.5	11.5	9.0	---	---	11.0	10.5
26	16.5	16.0	12.0	11.0	8.0	7.0	11.5	10.0	---	---	10.5	10.0
27	17.0	16.5	12.0	11.5	8.5	8.0	10.0	7.0	---	---	10.5	9.5
28	17.0	17.0	12.0	11.5	8.0	7.5	7.0	9.0	---	---	10.5	9.5
29	17.0	16.0	11.5	11.0	7.5	7.0	7.0	6.0	---	---	11.0	9.5
30	16.5	16.0	12.0	10.5	7.0	6.5	6.0	4.5	---	---	11.0	10.0
31	16.5	16.0	---	---	7.0	6.5	7.5	5.5	---	---	14.5	10.5
MONTH	21.5	15.0	16.5	9.0	12.5	6.5	12.0	4.5	---	---	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	9.5	14.5	10.5	19.0	12.5	---	---	24.5	20.5	23.0	19.0
2	16.0	9.5	15.0	10.5	17.0	13.0	---	---	26.5	21.0	23.5	19.5
3	13.0	10.0	11.5	9.5	20.0	12.5	---	---	27.0	22.5	24.5	20.0
4	11.5	9.5	13.0	9.5	22.5	19.5	20.5	18.5	27.5	22.5	26.0	21.5
5	11.5	10.0	14.5	10.0	22.5	19.5	23.0	19.0	25.0	22.5	26.0	23.0
6	11.0	9.5	16.5	9.5	22.5	19.5	23.0	19.5	23.5	21.0	24.0	22.0
7	11.5	9.5	15.5	10.5	23.0	19.5	22.5	21.0	25.0	20.0	23.0	21.5
8	11.5	10.5	16.0	11.5	23.0	20.0	22.5	21.0	26.0	22.0	22.5	21.5
9	17.0	9.5	---	---	24.0	21.5	23.5	21.0	26.0	22.5	23.0	21.5
10	17.5	11.5	16.0	13.0	---	---	23.0	20.0	25.5	22.0	22.5	21.5
11	18.5	10.5	16.5	13.5	---	---	22.5	20.0	26.0	22.5	22.0	21.5
12	19.5	11.0	18.0	13.0	---	---	22.5	20.0	25.5	22.5	22.0	21.5
13	17.0	12.0	19.0	12.5	---	---	23.0	20.0	25.0	23.0	21.5	21.0
14	13.0	10.5	18.5	12.5	---	---	22.0	19.5	25.0	22.5	21.5	21.0
15	12.5	9.0	17.0	12.5	---	---	21.5	20.0	25.0	22.0	21.0	14.0
16	11.0	9.0	16.0	12.5	---	---	23.0	20.0	24.0	22.0	14.0	13.0
17	17.0	8.0	16.5	12.0	22.0	19.0	22.5	20.0	23.0	21.5	14.0	13.0
18	17.5	10.5	18.5	11.5	23.0	18.5	23.0	20.0	22.5	21.0	14.0	13.0
19	17.0	12.0	18.0	12.0	19.5	18.0	23.0	20.5	22.5	21.0	13.5	13.0
20	20.0	11.5	16.5	11.5	22.5	18.0	22.5	20.0	24.5	21.0	---	---
21	19.5	12.5	16.0	11.0	22.0	18.5	23.5	20.5	24.0	21.5	---	---
22	15.5	12.0	17.5	11.5	22.0	18.5	24.0	19.5	25.0	22.0	---	---
23	17.0	12.0	17.5	11.5	---	---	24.0	20.5	25.5	22.5	---	---
24	15.5	13.5	17.5	12.0	---	---	24.5	20.5	26.0	22.5	---	---
25	16.5	12.0	18.5	12.5	---	---	25.0	21.5	26.5	23.0	14.0	13.0
26	17.5	11.5	18.5	12.5	---	---	24.5	21.5	24.5	22.5	13.5	12.5
27	18.5	13.0	17.0	12.0	---	---	23.5	21.0	23.0	22.0	13.5	12.5
28	18.5	10.5	18.0	12.0	---	---	23.5	20.5	24.0	21.0	14.0	13.0
29	16.5	10.0	18.0	12.5	---	---	22.0	20.5	23.0	20.5	14.0	13.0
30	16.0	11.0	18.5	12.5	---	---	22.5	18.5	22.0	20.5	13.5	12.5
31	---	---	18.5	12.0	---	---	24.0	20.0	22.0	19.5	---	---
MONTH	20.0	8.0	19.0	9.5	---	---	25.0	18.5	27.5	19.5	26.0	12.5

## ALAMEDA CREEK BASIN

11176600 ARROYO VALLE AT PLEASANTON, CALIF.

LOCATION.--Lat 37°40'02", long 121°53'02", in Valle de San Jose Grant, Alameda County, on right bank 0.4 mi (0.6 km) northwest of Pleasanton, and 5.8 mi (9.3 km) west of Livermore.

DRAINAGE AREA.--171 mi<sup>2</sup> (443 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Concrete control since Sept. 2, 1970. Datum of gage is 311.80 ft (95.037 m) above mean sea level.

AVERAGE DISCHARGE.--11 years (1957-68), 27.7 ft<sup>3</sup>/s (0.784 m<sup>3</sup>/s), 20,050 acre-ft/yr (24.7 hm<sup>3</sup>/yr); 7 years (1968-75), 20.4 ft<sup>3</sup>/s (0.578 m<sup>3</sup>/s), 14,780 acre-ft/yr (18.2 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 394 ft<sup>3</sup>/s (11.2 m<sup>3</sup>/s) Mar. 25 (gage height, 9.62 ft or 2.932 m); no flow at times.

Period of record: Maximum discharge, 11,300 ft<sup>3</sup>/s (320 m<sup>3</sup>/s) Apr. 3, 1958 (gage height, 25.36 ft or 7.730 m); no flow at times in most years. Maximum discharge since construction of Del Valle Dam in 1968, 1,060 ft<sup>3</sup>/s (30.0 m<sup>3</sup>/s) Feb. 13, 1973 (gage height, 11.17 ft or 3.405 m); maximum gage height, 11.43 ft or 3.484 m Mar. 3, 1969.

REMARKS.--Records good. Flow regulated by Del Valle Reservoir 10 mi (16 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm<sup>3</sup>). Water imported from Sacramento-San Joaquin Delta (see REMARKS for sta 11176500). Flow regulated by pumping and gravel operations above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	1.3	0	.01	11	0	32	0	.19	14	4.6	20
2	0	.97	0	0	8.2	0	14	0	.28	25	4.3	16
3	0	.59	.20	0	4.1	.21	8.9	0	.34	27	4.3	14
4	0	.89	.04	0	7.0	.03	7.4	.01	.30	28	4.4	14
5	0	.18	.34	0	2.0	0	11	.38	.43	28	4.1	12
6	0	.05	.29	4.3	1.1	0	9.2	.38	.76	27	4.1	10
7	0	.70	.37	1.9	1.4	.27	9.1	.07	.97	28	3.7	9.7
8	0	.60	.45	4.5	.88	4.7	12	.01	1.1	29	.87	9.6
9	0	.57	.70	2.0	12	5.3	9.6	0	.97	30	.03	9.7
10	0	.32	.71	1.2	5.1	8.4	5.3	.05	.58	30	0	10
11	0	.07	.31	.43	1.8	7.4	3.2	.08	.03	30	2.9	9.9
12	0	.13	1.7	.17	1.7	1.9	2.3	.26	0	30	3.6	9.9
13	0	.23	1.2	.04	6.4	14	1.2	.37	0	33	6.6	9.9
14	0	.09	1.2	.34	1.0	4.9	.75	.31	0	35	18	9.7
15	0	.09	1.2	.86	5.0	8.3	.41	.43	0	35	20	9.7
16	0	.07	1.3	5.6	7.3	9.9	.60	1.5	0	36	17	9.0
17	0	.13	1.4	21	6.9	2.9	.05	1.8	0	36	23	9.2
18	0	.15	1.5	27	5.0	1.6	0	1.9	0	35	29	9.3
19	0	.17	1.5	29	.51	2.3	0	1.7	0	35	29	9.2
20	.88	.07	1.4	29	.05	5.2	0	1.3	0	35	27	9.0
21	.59	1.0	1.7	23	4.8	25	0	1.4	0	35	23	8.9
22	.57	.05	1.7	16	7.7	20	0	1.1	.67	25	22	9.0
23	.75	0	1.2	14	7.5	208	0	1.0	1.5	14	21	8.9
24	.50	0	.76	13	5.2	251	0	1.1	2.9	8.9	21	8.6
25	.40	0	.66	12	.39	313	0	.87	.28	7.2	21	8.9
26	.41	0	.56	11	0	272	0	.70	0	6.6	22	8.6
27	.44	0	2.7	5.8	0	273	0	.27	1.3	6.2	23	8.6
28	2.1	0	1.6	3.2	0	275	0	.52	11	6.2	22	8.9
29	1.2	0	1.1	1.8	---	279	0	.34	15	5.0	22	9.0
30	.85	0	.76	.89	---	282	0	.09	8.3	5.2	22	9.0
31	2.3	---	.23	5.2	---	222	---	.08	---	5.0	22	---
TOTAL	10.99	8.42	28.78	233.24	114.03	2499.74	127.01	18.02	46.90	730.3	447.50	308.2
MEAN	.35	.28	.93	7.52	4.07	80.6	4.23	.58	1.56	23.6	14.4	10.3
MAX	2.3	1.3	2.7	29	12	313	32	1.9	15	36	29	20
MIN	0	0	0	0	0	0	0	0	0	5.0	0	8.6
AC-FT	22	17	57	463	226	4960	252	36	93	1450	888	611

CAL YR 1974 TOTAL 3219.06 MEAN 8.82 MAX 257 MIN 0 AC-FT 6390  
WTR YR 1975 TOTAL 4573.13 MEAN 12.5 MAX 313 MIN 0 AC-FT 9070



11176600 ARROYO VALLE AT PLEASANTON, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water year 1975 (partial-record station).

Specific conductance: December 1974 to September 1975.

Water temperatures: December 1974 to September 1975.

EXTREMES.--December 1974 to September 1975:

Specific conductance: Maximum daily, 667 micromhos Feb. 23; minimum daily, 113 micromhos Feb. 9.

Water temperatures: Maximum, 30.0°C July 25, 26; minimum, 3.0°C Jan. 1.

REMARKS.--Chemical-quality samples collected by Alameda County Water District.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
JAN. 24...	1100	13	37	19	51	.52	--	.02	--	.54
JULY 23...	1020	14	26	12	40	--	.13	--	.01	--

DATE	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (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)	TUR- BID- ITY (JTU)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
JAN. 24...	--	.00	--	302	.41	10.6	170	2	.1
JULY 23...	.14	--	.00	213	.29	8.05	110	2	.0

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), DECEMBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	525	517	521
2							---	---	---	---	---	---
3							196	158	176	---	---	---
4							234	208	222	---	---	---
5							271	243	256	---	---	---
6							321	283	303	304	246	270
7							354	330	343	482	310	416
8							386	366	375	457	351	401
9							411	395	402	484	422	454
10							433	421	426	495	483	491
11							448	442	444	500	490	496
12							468	460	463	505	495	500
13							485	477	481	503	485	498
14							501	495	498	504	488	499
15							518	510	514	507	499	504
16							524	518	521	513	503	509
17							527	519	523	514	508	512
18							526	520	524	520	510	515
19							525	517	522	519	509	516
20							521	517	520	514	500	508
21							520	518	520	505	489	497
22							523	519	521	499	491	496
23							522	518	521	500	486	495
24							525	515	522	495	483	491
25							524	516	522	492	480	488
26							524	514	519	492	482	487
27							517	329	462	495	483	490
28							458	334	397	496	484	490
29							509	461	491	493	483	489
30							510	504	509	493	481	489
31							517	509	513	492	132	416
MONTH							527	158	449	525	132	479

## ALAMEDA CREEK BASIN

11176600 ARROYO VALLE AT PLEASANTON, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), DECEMBER 1974 TO SEPTEMBER 1975

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	297	139	205	---	---	---	---	---	---	---	---	---
2	426	186	302	---	---	---	---	---	---	---	---	---
3	466	430	455	365	353	358	410	404	407	---	---	---
4	441	255	333	365	361	363	414	320	397	458	458	458
5	464	420	451	---	---	---	394	262	338	460	446	455
6	475	463	471	---	---	---	396	364	385	459	453	456
7	469	409	440	---	---	---	412	200	384	463	455	459
8	408	348	395	---	---	---	410	184	339	463	457	459
9	339	113	219	---	---	---	414	404	410	---	---	---
10	366	118	280	---	---	---	424	412	418	473	465	470
11	440	376	421	---	---	---	426	416	421	477	471	475
12	451	353	436	---	---	---	430	418	425	493	475	481
13	310	176	249	---	---	---	434	420	428	517	489	501
14	403	287	352	---	---	---	438	428	434	505	495	499
15	485	407	445	---	---	---	440	426	435	499	493	496
16	584	492	551	---	---	---	442	388	431	511	497	504
17	597	575	586	---	---	---	428	410	423	515	509	512
18	607	583	595	---	---	---	---	---	---	517	511	514
19	596	560	591	---	---	---	---	---	---	519	511	515
20	557	535	550	---	---	---	---	---	---	524	512	516
21	601	531	555	---	---	---	---	---	---	526	512	521
22	661	569	629	---	---	---	---	---	---	528	514	522
23	667	631	652	---	---	---	---	---	---	524	512	519
24	665	631	648	---	---	---	---	---	---	520	510	516
25	645	619	637	---	---	---	---	---	---	524	510	517
26	---	---	---	---	---	---	---	---	---	523	509	516
27	---	---	---	---	---	---	---	---	---	521	509	517
28	---	---	---	---	---	---	---	---	---	519	513	517
29	---	---	---	---	---	---	---	---	---	525	517	519
30	---	---	---	---	---	---	---	---	---	525	515	521
31	---	---	---	---	---	---	---	---	---	527	517	523
MONTH	667	113	458	---	---	---	---	---	---	528	446	499
DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	524	506	519	476	460	468	432	408	416	331	319	326
2	524	514	519	463	451	456	421	405	415	331	317	325
3	524	510	519	450	436	443	426	410	419	330	314	324
4	528	518	523	434	418	426	428	416	423	329	313	322
5	529	519	524	419	405	410	435	419	427	325	313	321
6	526	520	524	408	394	400	438	424	432	328	314	322
7	528	522	525	391	383	386	441	429	435	331	315	324
8	531	521	527	381	373	378	450	432	442	334	320	327
9	536	526	531	380	370	376	459	447	453	330	316	324
10	535	525	530	377	369	374	---	---	---	333	315	325
11	531	525	529	374	368	372	402	376	387	330	316	324
12	---	---	---	372	364	369	403	385	395	330	314	324
13	---	---	---	371	363	368	405	391	399	329	319	325
14	---	---	---	370	364	367	405	391	398	330	316	325
15	---	---	---	367	363	366	396	382	389	330	316	324
16	---	---	---	367	363	365	386	370	378	331	317	325
17	---	---	---	368	360	364	374	358	366	332	316	325
18	---	---	---	361	355	358	358	338	348	330	318	326
19	---	---	---	358	352	355	342	326	334	331	319	326
20	---	---	---	354	350	351	334	322	329	331	319	326
21	---	---	---	353	347	350	325	307	317	332	322	328
22	518	492	503	358	350	354	313	297	306	334	326	331
23	500	494	498	361	351	358	307	293	301	338	328	334
24	507	497	500	365	355	361	303	293	299	342	332	338
25	510	498	505	372	360	367	303	293	299	345	335	342
26	---	---	---	379	369	374	302	294	299	351	341	347
27	503	497	501	390	376	383	304	296	301	359	349	355
28	500	492	496	403	385	392	328	302	313	365	357	362
29	495	481	488	404	392	398	329	319	326	370	360	366
30	483	469	477	408	394	401	329	319	326	374	364	370
31	---	---	---	411	397	405	330	320	326	---	---	---
MONTH	---	---	---	476	347	384	459	293	367	374	313	332

11176600 ARROYO VALLE AT PLEASANTON, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, DECEMBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1					---	---	4.0	3.0	9.0	6.5	---	---
2					---	---	---	---	10.0	8.0	---	---
3					12.0	11.0	---	---	10.0	7.5	15.0	13.5
4					11.5	10.5	---	---	9.5	7.5	13.5	12.0
5					10.5	9.5	---	---	10.0	8.5	---	---
6					10.0	9.0	10.5	8.5	10.0	9.5	---	---
7					9.5	8.5	10.5	9.5	12.0	10.0	---	---
8					9.5	8.5	10.5	9.0	13.0	11.5	15.0	12.0
9					9.0	8.5	9.0	7.0	13.5	10.5	15.0	11.5
10					8.5	7.5	8.5	7.5	12.0	10.0	13.0	11.0
11					9.0	7.5	9.0	8.5	12.0	9.5	15.5	10.5
12					10.5	9.0	8.5	7.0	12.0	10.5	14.5	10.5
13					10.5	9.5	8.5	6.5	14.0	11.5	---	---
14					10.5	9.0	8.0	6.0	12.5	10.5	---	---
15					11.5	10.5	7.0	6.0	12.0	8.0	---	---
16					11.0	9.5	8.5	6.0	12.0	8.5	---	---
17					10.5	9.5	9.0	6.5	11.0	7.5	---	---
18					9.5	7.5	9.0	7.0	11.5	7.5	---	---
19					8.0	6.5	9.5	7.5	11.5	10.5	---	---
20					9.0	8.0	10.0	7.5	11.0	10.0	---	---
21					9.0	8.0	10.0	7.5	11.0	7.0	---	---
22					8.5	7.0	10.0	7.5	11.5	7.0	---	---
23					7.0	5.5	10.0	7.0	12.5	7.0	---	---
24					5.5	4.5	10.5	7.5	12.5	8.0	---	---
25					5.0	4.5	11.0	7.5	12.5	10.0	---	---
26					5.5	4.0	11.0	9.0	---	---	---	---
27					9.0	5.5	9.0	6.0	---	---	---	---
28					8.5	7.0	7.5	4.5	---	---	---	---
29					7.0	5.5	7.0	6.0	---	---	---	---
30					5.5	4.5	6.0	4.5	---	---	---	---
31					5.0	4.0	7.0	4.5	---	---	---	---
MONTH					12.0	4.0	11.0	3.0	14.0	6.5	---	---

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

## ALAMEDA CREEK BASIN

11177000 ARROYO DE LA LAGUNA NEAR PLEASANTON, CALIF.

LOCATION.--Lat 37°36'55", long 121°52'50", in Valle de San Jose Grant, Alameda County, on right bank 0.3 mi (0.5 km) upstream from small left-bank tributary, 0.8 mi (1.3 km) downstream from highway bridge, and 3.2 mi (5.1 km) south of Pleasanton.

DRAINAGE AREA.--405 mi<sup>2</sup> (1,049 km<sup>2</sup>).

PERIOD OF RECORD.--January 1912 to September 1930, October 1969 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 251.40 ft (76.627 m) above mean sea level. January 1912 to September 1917, at site 3.0 mi (4.8 km) upstream at different datum. October 1917 to September 1930, at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE.--17 years (1912-19, 1920-30), 42.5 ft<sup>3</sup>/s (1.204 m<sup>3</sup>/s), 30,790 acre-ft/yr (38.0 hm<sup>3</sup>/yr); 6 years (1969-75), 52.9 ft<sup>3</sup>/s (1.498 m<sup>3</sup>/s), 38,330 acre-ft/yr (47.3 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,460 ft<sup>3</sup>/s (69.7 m<sup>3</sup>/s) Mar. 21 (gage height, 11.24 ft or 3.426 m); minimum daily, 8.5 ft<sup>3</sup>/s (0.24 m<sup>3</sup>/s) Jan. 30.  
Period of record: Maximum daily discharge, 9,810 ft<sup>3</sup>/s (278 m<sup>3</sup>/s) Jan. 25, 1914; no flow at times.

REMARKS.--Records good. Flow partly regulated by Del Valle Reservoir 15 mi (24 km) upstream, capacity, 77,100 acre-ft (95.1 hm<sup>3</sup>). Water imported from Sacramento-San Joaquin Delta (see REMARKS for sta 11176500). Water from South Bay Aqueduct at times imported through Vallecitos Creek 1.5 mi (2.4 km) downstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	22	12	13	132	15	70	29	24	32	18	31
2	11	19	17	12	238	15	44	27	23	41	18	29
3	11	18	46	13	75	16	37	32	20	46	16	26
4	12	18	25	13	117	15	46	28	20	42	16	25
5	12	18	14	12	53	19	144	28	21	47	16	26
6	12	17	13	87	28	24	99	27	21	43	18	29
7	13	25	12	33	36	112	75	27	21	47	19	25
8	12	20	13	53	29	224	199	27	22	48	14	22
9	12	14	14	27	216	105	85	24	23	46	12	22
10	12	14	13	16	267	127	59	25	21	46	11	21
11	12	13	13	14	68	66	46	32	17	51	14	20
12	12	15	14	13	37	36	44	29	21	52	15	23
13	12	12	13	13	166	316	41	23	17	54	16	25
14	13	14	13	13	86	229	39	24	17	52	26	27
15	13	13	13	13	41	129	37	24	24	56	33	22
16	13	13	14	15	30	372	35	25	23	53	30	21
17	13	13	14	27	24	122	37	21	20	53	37	20
18	11	13	13	34	25	63	36	23	18	53	46	19
19	12	13	14	35	32	36	35	25	20	54	41	19
20	12	13	14	35	25	29	36	20	23	52	35	21
21	13	22	13	32	18	394	33	20	21	52	34	23
22	12	17	14	26	20	842	27	18	22	40	32	23
23	12	12	13	22	19	373	25	21	22	28	33	21
24	12	12	13	22	22	338	30	20	22	22	35	19
25	13	13	13	20	19	1150	31	21	17	22	36	18
26	11	12	12	17	17	424	26	19	14	26	32	18
27	11	12	34	14	17	322	25	22	13	22	34	20
28	33	12	33	12	15	283	32	19	27	21	34	24
29	21	12	15	12	---	272	26	18	39	19	35	20
30	17	12	13	8.5	---	260	27	20	29	19	37	18
31	29	---	12	51	---	220	---	22	---	19	35	---
TOTAL	426	453	499	727.5	1872	6948	1526	740	642	1258	828	677
MEAN	13.7	15.1	16.1	23.5	66.9	224	50.9	23.9	21.4	40.6	26.7	22.6
MAX	33	25	46	87	267	1150	199	32	39	56	46	31
MIN	11	12	12	8.5	15	15	25	18	13	19	11	18
AC=FT	845	899	990	1440	3710	13780	3030	1470	1270	2500	1640	1340
CAL YR 1974	TOTAL	14007.9	MEAN	38.4	MAX	982	MIN	7.7	AC=FT	27780		
WTR YR 1975	TOTAL	16596.5	MEAN	45.5	MAX	1150	MIN	8.5	AC=FT	32920		

## 11177200 VALLECITOS CREEK AT SUNOL, CALIF.

LOCATION.--Lat 37°35'42", long 121°52'51", in Valle de San Jose Grant, Alameda County, on right bank at culvert on Sunol Road, 700 ft (213 m) upstream from mouth, and 0.3 mi (0.5 km) east of Sunol.

DRAINAGE AREA.--7.48 mi<sup>2</sup> (19.37 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water year 1975 (partial-record station).  
Specific conductance: November 1974 to September 1975.

Water temperatures: November 1974 to September 1975.

EXTREMES.--November 1974 to September 1975:

Specific conductance: Maximum daily, 770 micromhos Apr. 14; minimum daily, 181 micromhos Nov. 21.

Water temperatures: Maximum, 27.5°C Aug. 24; minimum, 2.5°C Jan. 2.

REMARKS.--Chemical-quality samples collected by Alameda County Water District. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT. 15...	1430	--	30	12	26	.35	--	.01	--	.36	--
JAN. 24...	1035	--	34	14	53	--	.43	--	.03	--	.46
APR. 30...	1045	.80	35	24	89	--	.06	--	.00	--	.06

DATE	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (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)	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. 15...	.07	--	184	.25	--	120	328	--	--	20	.0
JAN. 24...	--	.02	235	.32	--	140	415	8.2	--	3	.0
APR. 30...	--	.00	340	.46	.73	190	569	8.6	16.0	3	.0

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), NOVEMBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1				---	---	---	476	466	472	498	398	464
2				---	---	---	470	360	441	616	432	497
3				---	---	---	430	300	386	534	518	525
4				---	---	---	663	383	493	535	509	519
5				---	---	---	584	412	486	543	521	533
6				---	---	---	524	396	458	527	425	501
7				---	---	---	527	341	436	583	485	538
8				---	---	---	510	342	445	585	327	503
9				---	---	---	521	431	466	628	530	587
10				---	---	---	478	402	440	646	520	570
11				---	---	---	516	330	437	556	448	511
12				---	---	---	559	395	489	548	438	502
13				---	---	---	666	408	485	545	475	501
14				---	---	---	431	423	427	555	423	479
15				---	---	---	457	381	436	519	385	464
16				---	---	---	---	---	---	505	379	448
17				---	---	---	---	---	---	507	365	443
18				---	---	---	---	---	---	537	349	440
19				---	---	---	---	---	---	553	349	449
20				443	361	409	---	---	---	555	343	448
21				417	181	358	---	---	---	555	413	468
22				442	316	380	---	---	---	538	370	436
23				606	420	492	---	---	---	536	342	423
24				464	370	420	474	450	463	468	338	411
25				484	394	427	476	462	469	460	322	403
26				487	329	438	479	463	469	576	358	418
27				483	469	476	483	409	465	402	386	392
28				475	453	468	529	397	445	400	372	380
29				487	473	482	649	459	559	386	364	374
30				489	389	478	542	426	485	384	368	375
31				---	---	---	538	452	501	372	234	341
MONTH				---	---	---	---	---	---	646	234	463

11177200 VALLECITOS CREEK AT SUNOL, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), NOVEMBER 1974 TO SEPTEMBER 1975

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	466	304	415	537	459	499	610	582	594	578	488	537
2	590	422	520	605	419	504	612	596	600	565	443	511
3	641	547	591	521	365	450	620	586	596	553	449	498
4	579	287	517	372	356	367	716	540	597	563	521	537
5	665	563	606	370	358	365	680	488	553	582	496	539
6	575	517	544	368	348	363	---	---	---	568	482	512
7	---	---	---	446	306	368	---	---	---	559	441	501
8	---	---	---	448	302	402	678	512	554	523	413	476
9	---	---	---	606	452	512	684	588	644	543	423	485
10	---	---	---	507	341	407	722	648	684	542	418	489
11	---	---	---	589	417	495	750	674	715	560	400	503
12	---	---	---	601	509	561	758	668	720	594	408	509
13	---	---	---	571	189	413	768	670	726	573	417	497
14	---	---	---	467	291	372	770	686	735	539	417	469
15	---	---	---	507	269	451	---	---	---	516	392	451
16	---	---	---	369	267	308	---	---	---	520	388	454
17	---	---	---	471	373	433	---	---	---	498	398	444
18	---	---	---	519	455	487	---	---	---	520	400	477
19	---	---	---	565	475	519	---	---	---	518	394	491
20	---	---	---	605	499	549	---	---	---	503	423	472
21	---	---	---	---	---	---	---	---	---	503	439	479
22	552	498	532	---	---	---	---	---	---	495	395	449
23	570	506	541	---	---	---	---	---	---	507	423	447
24	612	446	528	---	---	---	---	---	---	501	411	453
25	585	463	509	454	338	390	---	---	---	509	465	492
26	593	445	508	502	454	475	592	514	543	521	403	481
27	577	471	507	548	504	523	587	471	545	530	452	482
28	591	465	506	574	542	555	621	503	556	488	422	468
29	---	---	---	590	558	569	624	552	584	472	434	452
30	---	---	---	608	562	580	596	516	563	456	404	436
31	---	---	---	602	568	587	---	---	---	464	416	443
MONTH	---	---	---	608	189	463	---	---	---	594	388	482

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	452	412	430	537	493	504	508	422	488	482	362	430
2	468	434	451	535	385	426	546	426	489	499	361	426
3	497	475	484	461	375	410	552	398	487	492	410	450
4	511	419	452	451	385	412	559	407	492	457	379	417
5	457	425	438	489	417	457	559	505	527	450	422	432
6	437	411	425	497	435	486	520	456	481	463	399	425
7	431	397	416	501	489	496	478	426	458	476	414	437
8	453	389	413	506	482	495	474	446	456	494	408	463
9	459	433	445	498	412	434	463	365	415	471	385	432
10	465	411	431	466	406	432	485	433	463	464	396	429
11	457	389	417	454	390	416	500	404	451	433	389	407
12	451	387	409	434	320	365	504	428	465	432	372	404
13	447	405	425	474	370	420	458	380	415	451	333	397
14	451	389	415	496	404	465	425	401	411	484	390	446
15	445	365	411	500	400	451	435	373	397	519	479	496
16	464	448	453	493	469	477	422	390	412	520	462	487
17	476	442	461	471	405	441	446	422	433	481	431	459
18	438	406	418	461	329	397	451	349	406	462	404	426
19	446	410	425	499	385	443	447	377	407	445	399	423
20	434	392	412	439	323	383	490	426	453	454	386	425
21	444	408	423	497	411	461	540	460	494	462	340	415
22	468	422	445	516	482	497	529	435	482	477	343	434
23	488	472	481	510	466	482	455	391	433	482	362	419
24	486	418	445	475	405	437	500	366	456	469	351	394
25	458	414	425	429	359	401	522	406	473	---	---	---
26	488	412	444	425	345	406	523	411	468	---	---	---
27	542	426	459	490	304	403	491	387	453	---	---	---
28	528	358	427	492	362	427	478	460	467	---	---	---
29	469	429	441	547	465	518	479	451	464	---	---	---
30	497	473	487	569	525	553	452	374	405	---	---	---
31	---	---	---	573	501	531	461	375	425	---	---	---
MONTH	542	358	437	573	304	449	559	349	452	520	333	432

11177200 VALLECITOS CREEK AT SUNOL, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, NOVEMBER 1974 TO SEPTEMBER 1975

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	--	--	--	--	--	--	12.0	--	10.5	8.5	--	3.0	10.5	--	7.5	14.5	--	11.0
2	--	--	--	--	--	--	12.5	--	11.5	7.0	--	2.5	12.0	--	8.0	18.0	--	10.5
3	--	--	--	--	--	--	14.5	--	12.0	7.0	--	4.5	13.0	--	7.5	18.0	--	8.5
4	--	--	--	--	--	--	15.0	--	10.5	8.5	--	6.5	12.5	--	8.5	14.0	--	11.5
5	--	--	--	--	--	--	13.5	--	9.0	8.0	--	6.0	12.5	--	9.0	13.0	--	12.0
6	--	--	--	--	--	--	13.0	--	8.5	10.5	--	8.0	12.0	--	9.5	14.5	--	12.0
7	--	--	--	--	--	--	13.0	--	8.5	13.0	--	10.0	--	14.0	--	14.0	--	12.0
8	--	--	--	--	--	--	11.5	--	8.5	13.0	--	9.0	--	--	--	15.0	--	11.0
9	--	--	--	--	--	--	10.5	--	7.5	10.5	--	6.0	--	--	--	15.5	--	10.5
10	--	--	--	--	--	--	11.0	--	6.5	11.5	--	8.5	--	--	--	11.0	--	9.5
11	--	--	--	--	--	--	11.0	--	8.0	13.0	--	8.5	--	--	--	17.0	--	9.5
12	--	--	--	--	--	--	12.5	--	9.5	12.0	--	6.5	--	--	--	17.5	--	8.5
13	--	--	--	--	--	--	12.5	--	10.0	12.0	--	6.0	--	--	--	11.5	--	7.5
14	--	--	--	--	--	--	11.0	--	9.5	12.5	--	6.5	--	--	--	15.5	--	7.5
15	--	--	--	--	--	--	12.0	--	10.5	11.5	--	5.5	--	--	--	13.0	--	9.5
16	--	--	--	--	--	--	--	10.5	--	12.5	--	7.0	--	--	--	14.5	--	8.5
17	--	--	--	--	--	--	--	--	--	12.5	--	6.0	--	--	--	15.0	--	9.5
18	--	--	--	--	--	--	--	--	--	12.0	--	7.0	--	--	--	18.0	--	9.5
19	--	--	--	--	13.0	--	--	--	--	12.0	--	7.0	--	--	--	14.5	--	10.5
20	--	--	--	14.0	--	9.5	--	--	--	12.5	--	7.5	--	13.0	--	16.5	--	7.5
21	--	--	--	14.0	--	11.0	--	--	--	12.5	--	6.0	--	13.5	--	--	--	--
22	--	--	--	13.0	--	8.5	--	--	--	12.0	--	7.0	14.0	--	5.0	--	--	--
23	--	--	--	12.5	--	6.5	--	8.5	--	13.0	--	6.5	15.0	--	5.5	--	--	--
24	--	--	--	12.5	--	6.5	8.5	--	6.5	14.0	--	6.5	16.0	--	6.0	--	--	--
25	--	--	--	14.0	--	9.5	8.0	--	6.0	14.0	--	7.0	17.0	--	7.0	14.0	--	10.0
26	--	--	--	12.5	--	8.0	8.5	--	6.0	11.0	--	8.5	17.0	--	7.5	14.5	--	7.0
27	--	--	--	12.5	--	10.5	9.0	--	8.0	9.5	--	7.0	18.0	--	9.0	15.5	--	7.5
28	--	--	--	12.5	--	10.5	8.5	--	5.0	9.5	--	6.0	20.0	--	9.5	15.0	--	6.0
29	--	--	--	12.0	--	9.5	8.0	--	4.0	8.5	--	6.5	--	--	--	17.5	--	7.0
30	--	--	--	12.5	--	10.0	7.5	--	4.0	9.0	--	5.5	--	--	--	19.5	--	8.5
31	--	--	--	--	--	--	8.0	--	3.0	9.0	--	6.5	--	--	--	18.0	--	10.0
MONTH	--	--	--	--	--	--	--	--	--	14.0	--	2.5	--	--	--	19.5	--	6.0
DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	18.5	--	8.5	19.0	--	12.5	25.0	--	17.0	21.0	--	15.0	26.0	--	17.0	23.0	--	14.5
2	18.5	--	8.0	19.5	--	12.0	21.5	--	16.5	22.0	--	15.0	26.0	--	17.0	24.5	--	15.0
3	14.0	--	9.5	15.5	--	11.0	24.5	--	15.5	22.0	--	14.5	26.5	--	18.0	25.5	--	15.5
4	14.5	--	9.5	19.0	--	9.0	25.0	--	17.0	21.5	--	15.5	26.0	--	17.5	27.0	--	16.5
5	13.0	--	8.0	20.5	--	9.5	25.0	--	17.0	25.5	--	14.5	24.0	--	17.0	25.5	--	18.0
6	--	--	--	20.5	--	10.5	24.5	--	17.0	25.5	--	17.0	22.0	--	16.0	24.0	--	17.5
7	--	--	--	20.5	--	12.0	25.0	--	16.0	24.5	--	16.5	26.0	--	14.0	22.5	--	16.5
8	12.0	--	8.5	21.0	--	13.0	25.5	--	17.0	24.5	--	16.0	26.5	--	16.5	18.5	--	16.0
9	18.0	--	8.0	21.5	--	13.0	25.5	--	17.5	24.0	--	15.5	24.5	--	17.5	24.5	--	15.5
10	18.5	--	10.0	21.5	--	13.5	25.5	--	18.0	24.5	--	15.5	25.0	--	17.0	22.0	--	16.5
11	19.0	--	9.0	21.5	--	14.0	25.0	--	17.5	25.0	--	15.5	23.5	--	16.5	24.0	--	17.0
12	19.5	--	9.5	22.0	--	13.0	25.5	--	16.5	23.5	--	15.5	25.0	--	16.0	23.5	--	16.5
13	18.0	--	11.0	22.5	--	14.5	26.0	--	18.0	24.0	--	15.0	25.5	--	17.0	23.0	--	16.5
14	14.5	--	10.0	22.5	--	14.5	25.5	--	17.5	23.0	--	15.5	24.0	--	16.5	23.5	--	16.5
15	14.0	--	8.5	20.5	--	13.5	26.0	--	17.5	20.5	--	17.5	24.0	--	16.0	23.5	--	16.5
16	--	--	--	23.0	--	13.5	23.5	--	17.0	26.0	--	16.5	24.5	--	16.0	25.0	--	15.0
17	--	15.5	--	24.0	--	13.0	22.5	--	15.0	25.0	--	17.0	24.5	--	16.5	23.5	--	16.0
18	--	--	--	24.0	--	15.0	23.5	--	13.5	25.0	--	17.0	21.0	--	18.0	23.5	--	16.5
19	--	--	--	22.0	--	14.0	18.0	--	14.5	26.5	--	17.0	24.5	--	16.0	22.5	--	16.0
20	--	--	--	20.0	--	11.5	25.0	--	14.5	23.5	--	16.5	25.5	--	16.5	24.0	--	15.0
21	--	--	--	23.5	--	12.0	24.0	--	15.0	24.0	--	17.0	26.0	--	17.5	23.5	--	15.5
22	--	--	--	23.0	--	13.0	23.5	--	15.0	25.0	--	17.5	26.5	--	17.5	23.5	--	16.0
23	--	--	--	24.0	--	14.0	20.5	--	14.5	25.0	--	18.5	25.5	--	17.0	23.5	--	14.0
24	--	--	--	24.5	--	15.0	22.5	--	15.0	26.0	--	17.5	27.5	--	18.5	25.0	--	16.0
25	--	18.5	--	24.0	--	15.0	23.0	--	13.5	26.5	--	18.0	25.0	--	19.0	--	25.5	--
26	18.5	--	9.5	24.0	--	15.0	24.5	--	14.0	26.5	--	18.5	23.0	--	16.0	--	--	--
27	18.0	--	10.5	24.5	--	15.5	22.5	--	14.5	26.5	--	19.0	23.0	--	16.5	--	--	--
28	18.0	--	11.0	24.5	--	16.5	25.5	--	15.0	25.0	--	17.5	25.5	--	17.0	--	--	--
29	18.0	--	11.0	25.0	--	17.0	24.0	--	15.5	23.0	--	18.0	23.0	--	15.5	--	--	--
30	18.5	--	12.5	25.0	--	18.0	22.5	--	14.5	23.5	--	15.5	23.0	--	15.5	--	--	--
31	--	--	--	25.0	--	17.5	--	--	--	25.5	--	15.5	22.5	--	14.5	--	--	--
MONTH	--	--	--	25.0	--	9.0	26.0	--	13.5	26.5	--	14.5	27.5	--	14.0	27.0	--	14.0

## ALAMEDA CREEK BASIN

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, on right bank 0.3 mi (0.5 km) downstream from railroad bridge, and 1.2 mi (1.9 km) northeast of Niles.

DRAINAGE AREA.--633 mi<sup>2</sup> (1,639 km<sup>2</sup>).

PERIOD OF RECORD.--January 1891 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "at Niles Dam" 1891-1900, and as "at Sunol Glen" 1901-21.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.65 ft (26.106 m) above mean sea level. Prior to 1901, nonrecording gage at site 1 mi (2 km) upstream at different datum. 1901 to Sept. 30, 1914, nonrecording gage and Oct. 1, 1914, to Sept. 30, 1916, water-stage recorder at site 4.5 mi (7.2 km) upstream at different datum. Oct. 1, 1916, to Dec. 17, 1923, water-stage recorder at site 800 ft (244 m) upstream at different datum.

AVERAGE DISCHARGE.--71 years (1891-1962), 123 ft<sup>3</sup>/s (3.483 m<sup>3</sup>/s); 89,050 acre-ft/yr (110 hm<sup>3</sup>/yr); 13 years (1962-75), 101 ft<sup>3</sup>/s (2.860 m<sup>3</sup>/s), 73,170 acre-ft/yr (90.2 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 4,120 ft<sup>3</sup>/s (117 m<sup>3</sup>/s) Mar. 22 (gage height, 7.41 ft or 2.259 m); minimum daily, 9.2 ft<sup>3</sup>/s (0.26 m<sup>3</sup>/s) Oct. 1.  
Period of record: Maximum discharge, 29,000 ft<sup>3</sup>/s (821 m<sup>3</sup>/s) Dec. 23, 1955 (gage height, 14.9 ft or 4.54 m); minimum (1891-1962), no flow at times; minimum daily (1963 to current year), 1.4 ft<sup>3</sup>/s (0.040 m<sup>3</sup>/s) Dec. 7, 8, 1962.

REMARKS.--Records good. Flow regulated by Calaveras Reservoir, usable capacity, 96,800 acre-ft (119 hm<sup>3</sup>), most of which is diverted for San Francisco water supply, beginning in 1916 although dam not completed until 1925, by San Antonio Reservoir beginning in February 1965, capacity, 51,000 acre-ft (62.9 hm<sup>3</sup>), and by Del Valle Reservoir 23 mi (37 km) upstream beginning in September 1968, capacity, 77,100 acre-ft (95.1 hm<sup>3</sup>). Natural flow of stream affected by imported water from Delta-Mendota Canal beginning in 1962. Other diversions from ground-water basin for irrigation of 9,000 acres (36.4 km<sup>2</sup>) above station.

REVISIONS (WATER YEARS).--WSP 1315-B: 1921. WSP 1515: 1951-52, 1956. WSP 1565: 1945.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.2	22	31	18	200	20	123	57	25	28	17	33
2	10	17	31	19	524	20	82	54	27	38	16	29
3	11	14	62	34	115	21	71	58	22	45	17	26
4	11	14	55	34	200	50	76	55	20	41	15	25
5	10	15	26	33	61	51	254	50	21	46	15	25
6	10	14	23	124	31	71	178	48	22	42	17	29
7	9.6	15	23	65	35	140	116	47	22	45	17	26
8	10	35	23	74	28	289	337	47	23	46	13	23
9	9.7	18	23	51	243	167	215	41	24	46	10	22
10	11	14	25	25	514	175	163	40	22	45	10	22
11	11	13	35	20	113	118	137	47	17	50	11	21
12	11	17	17	19	57	67	123	44	23	51	14	24
13	11	34	15	18	313	335	110	32	19	57	13	24
14	11	35	31	17	155	339	102	30	17	54	23	29
15	27	29	30	17	79	125	101	27	25	57	34	23
16	35	31	29	17	54	546	91	33	25	57	31	23
17	35	31	28	31	40	184	100	24	22	55	40	21
18	33	27	31	42	38	110	91	26	19	54	53	20
19	33	18	32	45	36	91	84	29	20	57	54	20
20	31	14	34	46	57	74	81	23	23	55	43	22
21	27	19	33	45	28	272	75	23	22	54	39	23
22	35	31	31	34	28	1570	63	20	23	50	36	23
23	19	21	31	30	27	519	60	23	21	30	36	21
24	14	26	31	29	28	470	58	23	24	21	39	20
25	11	28	30	27	26	1770	83	22	19	19	41	16
26	11	31	29	27	23	652	74	21	17	19	35	19
27	9.6	40	34	37	22	473	63	24	12	25	37	20
28	34	32	73	33	21	418	67	20	20	23	39	27
29	28	31	25	31	---	392	58	19	39	16	38	22
30	20	30	19	30	---	376	56	20	28	16	41	18
31	27	---	17	38	---	337	---	23	---	16	39	---
TOTAL	575.1	716	957	1110	3096	10242	3292	1050	663	1258	883	696
MEAN	18.6	23.9	30.9	35.8	111	330	110	33.9	22.1	40.6	28.5	23.2
MAX	35	40	73	124	524	1770	337	58	39	57	54	33
MIN	9.2	13	15	17	21	20	56	19	12	16	10	16
AC-FT	1140	1420	1900	2200	6140	20320	6530	2080	1320	2500	1750	1380
CAL YR 1974	TOTAL	43156.6	MEAN	118	MAX	2410	MIN	8.2	AC-FT	85600		
WTR YR 1975	TOTAL	24538.1	MEAN	67.2	MAX	1770	MIN	9.2	AC-FT	48670		



## 11179000 ALAMEDA CREEK NEAR NILES, CALIF.--Continued

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, October 1974 to September 1975.  
 Water temperatures: July 1956 to September 1973.  
 Sediment records: January 1957 to September 1973.

REMARKS.--The letter "A" following a date indicates chemical-quality samples collected by Alameda County Water District.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
OCT.											
15A.	1500	30	--	--	59	37	--	--	--	--	--
31...	1515	47	--	--	--	--	--	--	--	168	--
DEC.											
03...	1030	76	17	20	49	33	110	8.5	178	146	95
JAN.											
15...	1000	18	--	--	--	--	--	--	--	--	--
24A...	1000	30	--	--	50	27	--	--	--	--	--
FEB.											
19...	1600	35	--	--	--	--	--	--	--	--	--
MAR.											
13...	1345	84	--	--	--	--	--	--	--	--	--
APR.											
25...	1500	82	--	--	--	--	--	--	--	--	--
30A...	0940	64	--	--	61	32	--	--	--	--	--
MAY											
16...	1550	37	--	--	--	--	--	--	--	--	--
JUNE											
24...	0850	23	--	--	--	--	--	--	--	--	--
JULY											
22...	0840	51	--	--	--	--	--	--	--	--	--
23A...	1240	30	--	--	41	23	--	--	--	--	--
AUG.											
12...	1515	17	--	--	--	--	--	--	--	--	--
SEP.											
19...	1530	21	--	--	--	--	--	--	--	--	--

DATE	TOTAL RESI- DUAL CHLO- RINE (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)
OCT.											
15A...	--	150	--	5.0	--	.03	--	5.0	--	.43	--
31...	--	--	--	--	--	--	--	11	9.8	.71	.68
DEC.											
03...	--	130	.3	--	--	--	--	25	16	.08	.09
JAN.											
15...	--	--	--	--	--	--	--	14	14	.26	.22
24A...	--	110	--	--	5.9	--	.22	--	6.1	--	1.2
FEB.											
19...	--	--	--	--	--	--	--	6.3	6.2	.03	.03
MAR.											
13...	--	--	--	--	--	--	--	4.1	3.6	.20	.20
APR.											
25...	--	--	--	--	--	--	--	3.4	3.4	.00	.02
30A...	.00	86	--	--	4.6	--	.06	--	4.7	--	.00
MAY											
16...	--	--	--	--	--	--	--	3.6	3.2	.03	.04
JUNE											
24...	--	--	--	--	--	--	--	7.2	7.1	.04	.02
JULY											
22...	--	--	--	--	--	--	--	2.5	2.5	.03	.00
23A...	.00	82	--	--	3.7	--	.02	--	3.7	--	.00
AUG.											
12...	--	--	--	--	--	--	--	10	8.1	.00	.00
SEP.											
19...	--	--	--	--	--	--	--	5.0	4.9	.00	.00

11179000 ALAMEDA CREEK NEAR NILES, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDED KJEL- NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHATE (P04) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
OCT.											
15A..	--	--	--	--	--	--	--	--	--	--	694
31...	.99	1.0	1.7	.00	1.7	13	6.1	--	16	5.3	--
DEC.											
03...	1.2	.91	1.3	.30	1.0	26	7.1	--	21	7.0	628
JAN.											
15...	1.4	.98	1.7	.50	1.2	16	5.2	5.1	15	5.0	--
24A..	--	--	--	--	--	--	--	--	--	--	521
FEB.											
19...	.20	.12	.23	.08	.15	6.5	2.3	--	6.7	2.2	--
MAR.											
13...	1.5	.61	1.7	.89	.81	5.8	2.0	--	4.9	1.6	--
APR.											
25...	1.0	.72	1.0	.26	.74	4.4	1.3	--	3.1	1.0	--
30A..	--	--	--	--	--	--	--	--	--	--	528
MAY											
16...	.97	.89	1.0	.07	.93	4.6	4.6	--	7.7	2.5	--
JUNE											
24...	.64	.55	.68	.11	.57	7.9	3.4	--	8.9	2.9	--
JULY											
22...	.69	.67	.72	.05	.67	3.2	1.8	--	4.9	1.6	--
23A..	--	--	--	--	--	--	--	--	--	--	420
AUG.											
12...	.62	.62	.62	.00	.62	11	4.5	--	12	3.9	--
SEP.											
19...	.76	.46	.76	.30	.46	5.8	2.7	--	8.0	2.6	--

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)
OCT.											
15A..	--	.94	56.2	300	--	--	--	1180	--	--	4
31...	--	--	--	--	--	--	--	1010	8.2	13.5	--
DEC.											
03...	623	.85	129	260	110	47	3.0	1050	8.0	12.0	20
JAN.											
15...	--	--	--	--	--	--	--	1140	7.6	7.5	--
24A..	--	.71	42.2	240	--	--	--	879	7.9	--	2
FEB.											
19...	--	--	--	--	--	--	--	973	8.2	11.0	--
MAR.											
13...	--	--	--	--	--	--	--	812	7.9	10.0	--
APR.											
25...	--	--	--	--	--	--	--	819	8.8	14.5	--
30A..	--	.72	91.2	280	--	--	--	881	8.2	16.0	4
MAY											
16...	--	--	--	--	--	--	--	1100	8.8	20.0	--
JUNE											
24...	--	--	--	--	--	--	--	968	--	17.0	--
JULY											
22...	--	--	--	--	--	--	--	616	8.3	19.5	--
23A..	--	.57	34.0	200	--	--	--	663	8.0	24.0	15
AUG.											
12...	--	--	--	--	--	--	--	1150	8.5	22.0	--
SEP.											
19...	--	--	--	--	--	--	--	788	8.4	20.0	--

11179000 ALAMEDA CREEK NEAR NILES, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	CON- FIRMED COLI- FORM (MPN)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT.										
15...	--	--	--	--	--	--	--	--	.2	--
31A...	--	--	--	--	--	--	--	9.1	--	--
DEC.										
03...	9.9	92	3.4	2.8	--	1000	580	--	.1	60
JAN.										
15...	--	--	--	--	--	--	--	13	--	970
24A...	--	--	--	--	--	--	--	--	.1	--
FEB.										
19...	--	--	--	--	--	--	--	5.4	--	730
MAR.										
13...	--	--	--	--	--	--	--	14	--	--
APR.										
25...	--	--	--	--	--	--	--	7.8	--	490
30A...	--	--	--	--	--	--	--	--	--	--
MAY										
16...	--	--	--	--	--	--	--	8.6	--	--
JUNE										
24...	--	--	--	--	--	--	--	9.9	--	--
JULY										
22...	--	--	--	--	--	--	--	4.6	--	450
23A...	--	--	--	--	2000	--	--	--	.1	--
AUG.										
12...	--	--	--	--	--	--	--	6.9	--	--
SEP.										
19...	--	--	--	--	--	--	--	4.0	--	560

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
DEC.												
03...	1030	4	<100	60	<10	0	50	<100	.2	1	<10	40

## 11180500 DRY CREEK AT UNION CITY, CALIF.

LOCATION.--Lat 37°36'22", long 122°01'22", in Arroyo de la Alameda Grant, Alameda County, on right bank 900 ft (274 m) downstream from bridge on State Highway 238 in Decoto District in Union City, and 1.7 mi (2.7 km) upstream from mouth.

DRAINAGE AREA.--9.41 mi<sup>2</sup> (24.37 km<sup>2</sup>).

PERIOD OF RECORD.--October 1916 to September 1919 (published as "near Decoto"), April 1959 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 85.12 ft (25.945 m) above mean sea level. Prior to Apr. 1, 1959, at site 1.4 mi (2.3 km) downstream at different datum.

AVERAGE DISCHARGE.--19 years, 2.15 ft<sup>3</sup>/s (0.0609 m<sup>3</sup>/s), 1,560 acre-ft/yr (1.92 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 313 ft<sup>3</sup>/s (8.86 m<sup>3</sup>/s) Mar. 25 (gage height, 3.26 ft or 0.994 m); no flow many days.

Period of record: Maximum discharge, 930 ft<sup>3</sup>/s (26.3 m<sup>3</sup>/s) Oct. 13, 1962 (gage height, 5.27 ft or 1.606 m, from outside gage), from rating curve extended above 140 ft<sup>3</sup>/s (3.96 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow most of each year.

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

REVISIONS (WATER YEARS).--WSP 1929: Drainage area. WRD Calif. 1969: 1962(M), 1963(P), 1965(P), 1967(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	0	0	0	.85	.90	3.4	1.0	.10			
2	0	0	.03	0	3.8	.80	2.8	.98	.11			
3	0	0	.03	0	1.8	.74	2.8	1.0	.11			
4	0	0	0	0	2.7	1.4	3.6	.92	.11			
5	0	0	0	0	1.9	2.0	8.3	.81	.08			
6	0	0	0	2.9	1.3	1.6	6.2	.74	.09			
7	0	.07	0	1.6	1.4	6.2	5.3	.73	.08			
8	0	0	0	1.4	1.4	6.4	12	.65	.07			
9	0	0	0	.94	11	3.7	5.3	.64	.05			
10	0	0	0	.50	15	8.5	4.3	.58	0			
11	0	0	0	.33	5.9	5.2	3.7	.54	0			
12	0	0	0	.22	4.3	3.6	3.3	.48	0			
13	0	0	0	.13	26	37	2.9	.41	0			
14	.02	0	0	.10	11	19	2.8	.35	0			
15	0	0	0	.07	6.2	9.5	2.7	.37	0			
16	0	0	0	.05	4.3	40	2.6	.36	0			
17	0	0	0	.02	3.2	11	2.3	.32	0			
18	0	0	0	.02	2.6	7.3	2.0	.27	0			
19	0	0	0	0	3.8	5.8	1.9	.27	0			
20	0	0	0	0	5.0	4.8	1.8	.23	0			
21	0	0	0	0	3.0	36	1.6	.23	0			
22	0	0	0	.03	2.2	46	1.7	.20	0			
23	0	0	0	.02	1.8	19	1.8	.19	0			
24	0	0	0	0	1.6	15	1.6	.16	0			
25	0	0	0	0	1.4	73	2.0	.16	0			
26	0	0	0	0	1.2	19	1.5	.15	0			
27	0	0	.13	.01	1.1	11	1.3	.14	0			
28	.12	0	.15	.05	1.0	7.4	1.3	.13	0			
29	0	0	.26	.04	---	5.5	1.1	.11	0			
30	0	0	0	.04	---	4.5	1.1	.09	0			
31	.01	---	0	.30	---	3.9	---	.09	---			---
TOTAL	.15	.07	.60	8.77	126.75	415.74	95.0	13.30	.80	0	0	0
MEAN	.005	.002	.019	.28	4.53	13.4	3.17	.43	.027	0	0	0
MAX	.12	.07	.26	2.9	26	73	12	1.0	.11	0	0	0
MIN	0	0	0	0	.85	.74	1.1	.09	0	0	0	0
AC=FT	.3	.1	1.2	17	251	825	188	26	1.6	0	0	0
CAL YR 1974	TOTAL	1582.71	MEAN 4.34	MAX 256	MIN 0	AC=FT 3140						
WTR YR 1975	TOTAL	661.18	MEAN 1.81	MAX 73	MIN 0	AC=FT 1310						

Peak discharge (base, 40 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-9	2115	2.35	53	3-16	0130	2.83	163
2-13	1145	2.37	56	3-21	2030	3.15	273
3-13	1345	2.77	146	3-25	0230	3.26	313

## ALAMEDA CREEK BASIN

201

11180700 PATTERSON CREEK AT UNION CITY, CALIF.

LOCATION.--Lat 37°55'09", long 122°02'50", in Potrero de Los Cerritos Grant, Alameda County, on right bank 0.1 mi (0.2 km) downstream from effluence from Alameda Creek, 0.2 mi (0.3 km) upstream from bridge on State Highway 17 (Nimitz Freeway), and 2.0 mi (3.2 km) southwest of Decoto District in Union City.

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

GAGE.--Water-stage recorder. Datum of gage is 4.13 ft (1.259 m) above mean sea level. Prior to Oct. 26, 1966, at site 0.2 mi (0.3 km) downstream at same datum.

EXTREMES.--Current year: Maximum discharge, 4,280 ft<sup>3</sup>/s (121 m<sup>3</sup>/s) Mar. 22 (gage height, 13.53 ft or 4.124 m); no flow many days.

Period of record: Maximum discharge, 10,500 ft<sup>3</sup>/s (297 m<sup>3</sup>/s) Feb. 1, 1963 (gage height, 20.4 ft or 6.22 m, from floodmarks); no flow at times in each year.

REMARKS.--Records fair. This stream is a distributary of Alameda Creek. (See REMARKS for Alameda Creek near Niles). Diversion by Alameda County Water District to percolation ponds between station near Niles and this station; additional percolation to ground water by placing check dams in channel.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	0	250	.20	64	36				
2			0	0	1010	.20	4.3	37				
3			58	0	141	.20	6.6	38				
4			55	0	234	25	26	39				
5			21	0	78	30	353	34				
6			7.4	138	36	40	173	32				
7			7.6	80	26	70	106	30				
8			1.2	58	31	321	292	30				
9			.64	48	264	140	193	28				
10			2.7	12	800	114	77	23				
11			4.6	6.9	134	79	72	28				
12			9.6	1.0	61	8.8	61	32				
13			.64	.05	392	330	61	23				
14			.05	0	170	378	61	15				
15			3.0	0	64	89	65	14				
16			6.9	0	11	511	58	17				
17			7.2	0	9.6	146	62	9.6				
18			6.8	0	9.0	71	59	8.7				
19			8.7	0	8.2	51	52	7.2				
20			11	0	31	6.9	52	.32				
21			5.7	0	4.5	156	49	0				
22			4.0	0	3.2	1900	41	0				
23			.52	0	2.4	485	38	0				
24			.05	0	1.9	421	35	0				
25			.01	0	1.3	1910	53	0				
26			0	0	.83	649	51	0				
27			2.5	0	.50	416	43	0				
28			4.8	0	.18	246	43	0				
29			.02	0	---	262	39	0				
30			0	0	---	262	36	0				
31		---	0	75	---	237	---	0	---			---
TOTAL	0	0	229.63	418.95	3774.61	9355.30	2325.9	481.82	0	0	0	0
MEAN	0	0	7.41	13.5	135	302	77.5	15.5	0	0	0	0
MAX	0	0	58	138	1010	1910	353	39	0	0	0	0
MIN	0	0	0	0	.18	.20	4.3	0	0	0	0	0
AC=FT	0	0	455	831	7490	18560	4610	956	0	0	0	0
CAL YR 1974	TOTAL	39258.83	MEAN	108	MAX	2300	MIN	0	AC=FT	77870		
WTR YR 1975	TOTAL	16586.21	MEAN	45.4	MAX	1910	MIN	0	AC=FT	32900		

## SAN LORENZO CREEK BASIN

11181000 SAN LORENZO CREEK AT HAYWARD, CALIF.

LOCATION.--Lat 37°41'11", long 122°03'44", in San Lorenzo Grant, Alameda County, on right bank at bridge on B Street, just outside city limits of Hayward, 0.5 mi (0.8 km) downstream from Crow Creek, and 0.9 mi (1.4 km) downstream from Don Castro Dam.

DRAINAGE AREA.--37.5 mi<sup>2</sup> (97.1 km<sup>2</sup>).

PERIOD OF RECORD.--October 1939 to September 1940, October 1946 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and concrete control (control ineffective since 1952 due to gravel fill). Datum of gage is 133.16 ft (40.587 m) above mean sea level. January to September 1940, nonrecording gage on bridge at present site and datum.

AVERAGE DISCHARGE.--30 years, 15.1 ft<sup>3</sup>/s (0.428 m<sup>3</sup>/s); 10,940 acre-ft/yr (13.5 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,460 ft<sup>3</sup>/s (69.7 m<sup>3</sup>/s) Mar. 21 (gage height, 12.39 ft or 3.776 m); minimum daily, 0.01 ft<sup>3</sup>/s (<0.001 m<sup>3</sup>/s) Aug. 10, Sept. 3, 5, 6.  
Period of record: Maximum discharge, 7,460 ft<sup>3</sup>/s (211 m<sup>3</sup>/s) Oct. 13, 1962 (gage height, 19.73 ft or 6.014 m, from floodmarks), from rating curve extended above 2,700 ft<sup>3</sup>/s (76.5 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; maximum gage height, 20.82 ft (6.346 m), from floodmarks, Dec. 22, 1955; no flow at times.

REMARKS.--Records fair. Flow partly regulated by Cull Creek Reservoir beginning in October 1962, capacity, 310 acre-ft (382,000 m<sup>3</sup>) and Don Castro Reservoir 0.9 mi (1.4 km) upstream beginning in January 1965, capacity, 380 acre-ft (469,000 m<sup>3</sup>). A few very small diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1315-B: 1947(M), 1949(M). WSP 1345: 1940(M). WSP 1715: 1947.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.1	1.3	.72	.67	5.8	7.2	39	13	3.5	2.4	.28	.68
2	2.2	.71	3.7	1.3	17	6.6	34	13	3.4	2.6	.24	.10
3	6.9	.63	7.0	.99	17	6.1	36	13	3.6	2.5	.20	.01
4	11	.58	5.0	.53	22	6.1	68	13	3.1	2.5	.22	.02
5	9.7	.63	2.2	.43	8.2	10	105	11	2.6	2.6	.24	.01
6	9.3	.81	1.5	27	7.4	12	65	12	2.8	1.8	.25	.01
7	8.9	5.4	.95	2.1	7.3	52	48	11	2.7	1.5	.82	.11
8	7.7	2.2	1.0	10	9.6	45	126	11	2.9	1.5	.39	.64
9	7.7	.85	.62	2.1	40	18	67	9.1	2.4	1.4	.13	2.3
10	7.9	.67	.50	1.1	51	42	53	8.2	2.2	1.7	.01	2.3
11	4.1	.84	2.4	.93	16	21	45	7.6	3.1	1.4	.26	1.1
12	.84	.80	4.3	.84	17	15	40	8.8	2.9	1.8	.30	.99
13	.67	3.9	.46	.79	123	137	36	8.2	2.2	1.3	.02	1.5
14	.56	8.5	.45	.79	35	76	36	6.3	2.6	1.2	.47	.58
15	.16	5.3	.46	.76	20	44	35	6.7	2.1	3.5	.04	.60
16	.11	.63	.51	.74	15	148	34	6.2	2.2	4.2	.03	.69
17	.10	.62	.81	.71	11	50	30	5.7	3.9	3.1	.12	.85
18	.09	1.1	1.1	.72	9.9	41	27	5.2	2.9	2.2	1.3	.57
19	.14	.52	1.2	.73	23	29	25	5.3	4.5	1.9	1.9	.03
20	.17	.53	1.3	.78	20	24	22	5.6	3.9	1.6	2.1	.79
21	.19	2.3	1.3	.79	10	316	21	4.6	3.6	1.2	.71	1.7
22	.23	1.4	1.3	.79	8.6	235	21	4.9	3.5	.89	.51	.76
23	.59	.74	1.3	.79	8.4	79	20	5.4	3.7	.60	.06	.32
24	.80	.69	1.3	.79	7.9	67	22	4.8	6.2	.69	.13	.86
25	.30	.94	1.2	.79	7.9	337	23	4.1	4.4	.48	.38	.02
26	.24	.70	1.5	.80	7.2	86	18	3.6	3.3	.34	.61	.05
27	.82	.64	4.6	.73	7.0	55	17	3.5	2.0	.28	1.7	.56
28	2.9	.74	2.1	1.0	7.0	53	16	3.4	2.1	.78	1.1	.23
29	1.7	.84	.55	.76	---	50	15	2.7	1.6	.74	.03	.55
30	2.0	.87	.40	.71	---	48	14	2.5	1.6	.43	.13	1.0
31	3.0	---	.54	4.9	---	45	---	2.7	---	.33	.29	---
TOTAL	93.11	46.38	52.27	66.86	539.2	2161.0	1158	222.1	91.5	49.46	14.97	19.93
MEAN	3.00	1.55	1.69	2.16	19.3	69.7	38.6	7.16	3.05	1.60	.48	.66
MAX	11	8.5	7.0	27	123	337	126	13	6.2	4.2	2.1	2.3
MIN	.09	.52	.40	.43	5.8	6.1	14	2.5	1.6	.28	.01	.01
AC=FT	185	92	104	133	1070	4290	2300	441	181	98	30	40
CAL YR 1974	TOTAL	8359.50	MEAN	22.9	MAX	1160	MIN	.09	AC=FT	16580		
WTR YR 1975	TOTAL	4514.78	MEAN	12.4	MAX	337	MIN	.01	AC=FT	8960		

Peak discharge (base, 350 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
3-13	1445	7.97	533	3-25	0315	10.38	1,430
3-16	0215	7.57	419	4-8	0030	7.53	408
3-21	2030	12.39	2,460				

## 11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.

LOCATION.--Lat 37°40'48", long 122°04'46", in San Lorenzo (Castro) Grant, Alameda County, on left bank at Hayward, 700 ft (213 m) upstream from mouth, and 700 ft (213 m) downstream from small left-bank tributary.

DRAINAGE AREA.--5.51 mi<sup>2</sup> (14.27 km<sup>2</sup>).

PERIOD OF RECORD.--October 1971 to current year (seasonal records only, water year 1975).

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 100 ft (30 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 479 ft<sup>3</sup>/s (13.6 m<sup>3</sup>/s) Mar. 25 (gage height, 5.41 ft or 1.649 m), from rating curve extended as explained below; minimum daily, 0.19 ft<sup>3</sup>/s (0.005 m<sup>3</sup>/s) Nov. 4-6.  
Period of record: Maximum discharge, 665 ft<sup>3</sup>/s (18.8 m<sup>3</sup>/s) Feb. 27, 1973 (gage height, 7.15 ft or 2.179 m), from rating curve extended above 53 ft<sup>3</sup>/s (1.50 m<sup>3</sup>/s) on basis of slope-area measurements at gage heights 3.92 ft (1.195 m) and 6.02 ft (1.835 m); minimum daily, 0.10 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) Oct. 1-3, 11, 15-20, 1971.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.55	.33	.27	.47	15	.85	1.1					
2	.41	.22	18	.52	21	.68	.98					
3	.34	.20	.25	.46	13	.68	3.3					
4	.39	.19	4.6	1.5	15	.74	36					
5	.41	.19	.74	.59	2.6	6.5	29					
6	.47	.19	.50	61	4.1	.98	7.2					
7	.40	21	.50	7.0	4.6	58	18					
8	.69	.48	.42	29	21	24	9.5					
9	1.4	.26	.42	2.9	36	3.0	3.5					
10	1.4	.22	.42	1.6	7.3	20	2.7					
11	1.5	.21	.39	1.2	2.2	3.5	2.4					
12	1.6	.27	.86	.98	22	2.6	2.1					
13	1.6	.24	.55	.92	34	57	1.9					
14	1.3	.21	.55	.85	3.2	5.4	2.9					
15	.76	.26	.47	.79	2.0	30	2.7					
16	.89	.21	.46	.74	1.6	19	1.7					
17	.87	.21	.46	.68	1.2	3.5	1.5					
18	.86	2.9	.43	.68	1.1	2.6	1.4					
19	.91	.21	.42	.63	14	2.5	1.3					
20	.87	.24	.40	.63	2.0	2.0	1.3					
21	.88	7.7	.58	.68	1.3	73	1.3					
22	.76	.32	.42	.59	1.1	19	1.2					
23	.79	.27	.36	.59	.98	4.7	1.1					
24	.77	.73	.30	.54	.98	6.4	4.1					
25	.88	.78	.30	.54	.92	38	3.3					
26	1.1	.24	.36	.63	.79	3.5	1.1					
27	14	.27	18	.59	.74	2.5	1.1					
28	8.4	.27	6.3	2.6	.73	1.8	1.1					
29	.25	.24	.76	.74	---	1.6	1.0					
30	1.6	.24	.53	.59	---	1.4	.98					
31	6.1	---	.42	30	---	1.4	---					
TOTAL	53.15	39.30	84.19	151.23	230.44	396.83	146.76					
MEAN	1.71	1.31	2.72	4.88	8.23	12.8	4.89					
MAX	14	21	25	61	36	73	36					
MIN	.25	.19	.27	.46	.73	.68	.98					
AC-FT	105	78	167	300	457	787	291					
CAL YR 1974	TOTAL	1331.85	MEAN	3.65	MAX	227	MIN	.19	AC-FT	2640		

		Peak discharge (base, 400 ft <sup>3</sup> /s)					
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
11-7	1130	5.05	441	3-21	1855	5.18	451
12-3	1755	4.90	414	3-25	0135	5.41	479
1-6	0930	4.84	405				

## SAN LORENZO CREEK BASIN

11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1972-73, 1975 (partial-record station).  
Sediment records: Water years 1972-73 (partial-record station).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	ALKA- LITY AS CACO3 (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)
OCT.							
01...	2200	.27	264	--	--	--	--
07...	1600	.17	274	2.5	1.3	3.8	.43
27...	1925	40	--	.67	7.9	8.6	.41
27...	2010	32	34	.09	6.4	6.5	.45
27...	2030	53	34	.29	4.8	5.1	.37
27...	2135	15	58	2.2	6.7	8.9	.37
27...	2145	126	47	.78	7.4	8.2	.43
27...	2250	44	41	1.1	5.2	6.3	.28
27...	2300	54	34	1.4	4.0	5.4	.28
27...	2350	21	37	2.5	3.7	6.2	.24
28...	0004	56	41	2.6	4.2	6.8	.24
28...	0008	73	45	2.4	5.1	7.5	.26
28...	0014	100	38	.37	11	11	.38
28...	0018	134	30	.48	13	13	.50
28...	0023	186	30	1.0	9.3	10	.22
28...	0028	178	33	1.2	9.7	11	.28
28...	0052	77	27	1.1	3.6	4.7	.19
28...	0130	33	25	1.4	2.8	4.2	.24
28...	0200	20	30	1.5	2.4	3.9	.21
28...	0215	58	38	1.7	3.4	5.1	.24
28...	0220	65	33	1.6	3.6	5.2	.23
28...	0330	35	31	1.6	2.3	3.9	.22
28...	1135	3.8	77	2.0	1.9	3.9	.21
28...	1835	3.8	220	2.6	2.6	5.2	.15
30...	2210	10	290	--	--	--	--
30...	2220	9.6	280	--	--	--	--
30...	2255	26	80	--	--	--	--
NOV.							
07...	1110	236	36	.32	11	11	.24
07...	1115	286	17	.26	13	13	.22
07...	1120	389	18	.19	11	11	.29
07...	1125	430	19	.42	8.3	8.7	.25
07...	1130	441	17	.54	3.6	4.1	.28
07...	1135	370	16	.66	5.6	6.3	.30
07...	1150	163	36	1.2	6.3	7.5	.47
07...	1245	27	33	1.5	4.6	6.1	.32
07...	1305	84	30	1.5	3.7	5.2	.35
07...	1320	196	23	1.1	3.4	4.5	.33
07...	1330	208	17	.75	2.6	3.4	.29
07...	1410	45	20	.95	2.1	3.1	.35
07...	1705	3.2	45	2.0	1.9	3.9	.32
08...	0820	.35	140	3.6	2.2	5.8	.25
JAN.							
06...	1030	168	210	--	--	--	--
31...	1140	.27	300	--	--	--	--
MAR.							
17...	1035	2.9	240	--	--	--	--
19...	1115	2.1	300	--	--	--	--
19...	1200	3.2	270	--	--	--	--
21...	1145	1.7	300	5.4	.37	5.8	.09
21...	1505	3.6	290	3.9	.51	4.4	.09
21...	1512	5.3	280	3.9	.46	4.4	.09
21...	1530	5.8	280	5.3	.77	6.1	.09
21...	1540	12	260	5.0	.86	5.9	.10
21...	1543	25	230	4.2	1.5	5.7	.12
21...	1548	62	220	4.6	1.8	6.4	.16
21...	1553	65	180	3.7	1.9	5.6	.13
21...	1600	60	75	1.4	2.4	3.8	.19
21...	1606	54	59	.84	2.3	3.1	.18
21...	1615	73	43	.62	2.2	2.8	.17
21...	1617	114	38	.58	1.8	2.4	.16
21...	1621	131	33	.58	2.0	2.6	.15
21...	1625	149	28	.52	2.1	2.6	.13
21...	1635	150	28	.43	1.7	2.1	.13
21...	1641	142	25	.40	1.8	2.2	.14
21...	1700	141	26	.42	.96	1.4	.14



11181008 CASTRO VALLEY CREEK AT HAYWARD, CALIF.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS- PENDED SOLIDS (MG/L)	SETTLE- ABLE MATTER (ML/L /HR)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
OCT.							
01...	--	--	1130	8.1	19.5	--	--
07...	2	--	992	8.3	16.0	26	1.1
27...	239	3.4	232	--	17.5	340	90
27...	164	1.8	254	7.3	17.0	270	41
27...	103	1.6	236	7.4	17.0	230	34
27...	216	1.0	345	7.5	16.5	300	48
27...	399	3.2	270	7.4	17.0	410	50
27...	252	2.5	218	7.7	16.0	220	29
27...	208	2.3	218	7.4	16.0	200	24
27...	131	1.2	212	7.4	16.0	170	26
28...	61	1.1	248	7.5	16.0	190	--
28...	374	2.8	260	7.4	16.0	320	32
28...	1310	10	208	7.4	16.5	810	--
28...	1040	11	160	7.5	16.0	550	72
28...	1100	9.0	157	7.5	16.0	380	64
28...	834	8.0	165	7.5	16.0	500	67
28...	431	5.0	127	7.8	16.0	120	--
28...	203	1.1	130	7.6	15.0	130	19
28...	134	1.6	151	7.5	15.0	230	19
28...	244	2.4	223	7.5	15.0	160	--
28...	194	1.9	165	7.5	15.5	150	18
28...	61	1.0	174	7.3	15.0	100	15
28...	13	.5	340	7.8	14.5	84	13
28...	14	.4	536	7.7	14.5	100	13
30...	--	--	1400	7.9	10.0	--	--
30...	--	--	1270	8.0	10.0	--	--
30...	--	--	425	7.5	11.0	--	--
NOV.							
07...	1410	12	165	7.7	14.0	510	84
07...	1240	11	114	6.6	14.0	500	78
07...	1810	12	86	6.8	14.0	410	70
07...	1570	10	67	7.5	14.0	340	55
07...	1530	9.5	65	7.7	14.0	290	48
07...	1350	7.5	64	7.4	13.5	250	35
07...	1630	7.0	156	7.5	13.0	210	29
07...	508	1.8	163	7.2	14.0	100	19
07...	467	1.9	151	7.2	14.0	120	48
07...	501	1.7	104	7.2	14.0	110	29
07...	248	2.0	76	7.0	14.0	140	19
07...	233	1.0	102	7.1	14.0	62	13
07...	68	.3	254	7.0	14.0	52	10
08...	11	.2	603	7.5	11.0	19	6.0
JAN.							
06...	--	--	133	7.1	12.0	--	--
31...	--	--	1230	8.5	7.0	--	--
MAR.							
17...	--	--	878	8.2	12.0	--	--
19...	--	--	1060	7.9	12.0	--	--
19...	--	--	1050	7.6	12.0	--	--
21...	15	.0	1130	8.1	10.0	11	.9
21...	17	.1	1130	8.6	10.0	12	6.2
21...	19	.1	1130	8.5	10.0	15	4.8
21...	20	.1	1110	8.4	10.5	19	8.4
21...	40	.2	1040	8.4	10.5	34	20
21...	58	1.2	904	8.4	10.5	53	21
21...	126	1.3	822	8.4	11.0	68	35
21...	178	1.3	685	8.3	11.0	130	38
21...	294	2.3	295	8.0	11.0	210	48
21...	294	1.8	206	8.4	11.0	200	42
21...	251	1.5	151	7.9	11.0	140	26
21...	290	1.7	123	7.9	11.0	150	--
21...	320	2.5	110	7.8	11.0	140	22
21...	362	1.7	110	7.6	11.0	120	--
21...	277	1.3	96	7.3	11.0	99	20
21...	230	1.0	89	7.2	11.0	68	--
21...	217	.8	96	7.6	11.0	67	10

## SAN LORENZO CREEK BASIN

11181040 SAN LORENZO CREEK AT SAN LORENZO, CALIF.

LOCATION.--Lat 37°41'03", long 122°08'20", in San Lorenzo (Soto) Grant, Alameda County, on left bank 400 ft (122 m) downstream from Washington Avenue bridge in San Lorenzo, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--44.6 mi<sup>2</sup> (115.5 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 6.13 ft (1.868 m) above mean sea level (levels by Alameda County Flood Control and Water Conservation District).

AVERAGE DISCHARGE.--8 years, 24.0 ft<sup>3</sup>/s (0.680 m<sup>3</sup>/s), 17,380 acre-ft/yr (21.4 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 1,940 ft<sup>3</sup>/s (54.9 m<sup>3</sup>/s) Mar. 25 (gage height, 6.41 ft or 1.954 m), from rating curve extended above 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s); minimum daily, 0.40 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/s) Dec. 30.  
Period of record: Maximum discharge, 3,960 ft<sup>3</sup>/s (112 m<sup>3</sup>/s) Apr. 1, 1974 (gage height, 8.22 ft or 2.505 m), from rating curve extended above 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s); minimum daily, 0.05 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Oct. 23, 1968.

REMARKS.--Records fair. Flow partly regulated by Cull Creek Reservoir beginning in October 1962, capacity, 310 acre-ft (382,000 m<sup>3</sup>) and Don Castro Reservoir 7 mi (11 km) upstream beginning in January 1965, capacity, 380 acre-ft (469,000 m<sup>3</sup>). A few very small diversions above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.3	.58	.50	54	12	40	16	8.9	5.4	1.1	3.4
2	1.5	.58	27	.70	74	11	36	16	10	2.0	1.1	2.8
3	5.8	.51	51	2.5	86	8.6	40	16	11	2.4	1.6	3.0
4	16	.48	15	1.6	92	8.3	90	16	11	2.4	1.7	3.0
5	15	.49	3.5	.89	41	16	215	14	10	2.1	2.7	3.1
6	15	.52	2.1	30	34	18	89	15	11	2.1	1.9	2.9
7	15	29	1.2	10	42	144	96	15	10	1.1	2.9	2.9
8	14	2.3	1.2	60	68	87	125	15	11	1.8	2.6	3.3
9	14	.70	1.0	8.2	148	34	63	14	11	2.0	2.6	3.9
10	14	.52	.80	3.9	89	79	57	13	9.7	2.1	2.7	3.4
11	9.6	.50	2.2	2.8	34	38	51	13	10	1.9	3.3	4.4
12	1.6	.52	7.8	2.4	45	30	45	13	10	1.9	3.1	3.6
13	1.5	2.0	1.3	2.3	181	233	43	13	10	1.6	2.3	3.7
14	1.4	11	.80	2.1	52	101	40	13	10	1.6	3.3	3.4
15	1.1	9.4	.70	2.0	32	84	39	13	10	2.5	2.4	3.5
16	.97	.57	.60	1.9	26	182	36	13	10	1.9	2.3	3.7
17	1.0	.53	1.0	1.8	22	67	32	12	10	1.9	2.3	4.1
18	1.1	4.1	1.2	1.7	21	58	30	13	9.7	1.7	1.6	4.6
19	1.1	.64	1.5	1.7	43	44	28	12	9.7	1.6	3.3	4.2
20	1.1	.57	1.8	1.7	33	39	27	13	10	1.6	3.5	5.2
21	1.0	11	1.7	1.7	19	309	24	12	9.7	1.6	3.3	6.8
22	1.1	1.1	1.7	1.7	16	305	23	11	9.3	1.5	2.1	7.9
23	1.9	.60	1.6	1.7	16	115	23	12	9.3	1.5	1.3	6.9
24	2.7	.48	1.6	1.7	15	100	26	12	18	1.3	1.5	6.7
25	1.1	1.9	1.5	1.7	15	385	30	11	7.5	1.2	1.7	6.3
26	.88	.47	2.0	1.7	13	100	23	10	7.5	1.1	2.0	5.6
27	5.4	.49	10	1.6	12	66	20	9.7	6.9	1.3	2.3	6.4
28	15	.52	9.0	7.6	12	58	19	10	9.7	1.6	3.8	6.5
29	1.2	.51	1.3	3.0	---	52	18	8.5	4.0	2.3	1.6	6.2
30	1.7	.53	.40	2.0	---	47	17	8.9	5.3	1.4	2.2	6.1
31	13	---	.50	57	---	43	---	8.5	---	1.9	2.6	---
TOTAL	177.25	83.83	153.58	220.09	1335	2873.9	1445	391.6	290.2	58.3	87.1	137.5
MEAN	5.72	2.79	4.95	7.10	47.7	92.7	48.2	12.6	9.67	1.88	2.81	4.58
MAX	16	29	51	60	181	385	215	16	18	5.4	16	7.9
MIN	.88	.47	.40	.50	12	8.3	17	8.5	4.0	1.1	1.1	2.8
AC-FT	352	166	305	437	2650	5700	2870	777	576	116	173	273
CAL YR 1974 TOTAL	10996.96											
MEAN 30.1												
MAX 1400												
MIN .40												
AC-FT 21810												
WTR YR 1975 TOTAL	7253.35											
MEAN 19.9												
MAX 385												
MIN .40												
AC-FT 14390												

Peak discharge (base, 850 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
3-13	1215	5.44	1,010	3-25	0430	6.41	1,940
3-21	2300	6.27	1,780				

## CASTRO CREEK BASIN

207

11181400 WILDCAT CREEK AT RICHMOND, CALIF.

LOCATION.--Lat 37°57'41", long 122°21'33", in San Pablo Grant, Contra Costa County, on left bank 200 ft (61 m) downstream from Southern Pacific Railway bridge at east city limits of Richmond, and 2 mi (3 km) upstream from mouth.

DRAINAGE AREA.--8.69 mi<sup>2</sup> (22.51 km<sup>2</sup>).

PERIOD OF RECORD.--July 1964 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 20.62 ft (6.285 m) above mean sea level.

AVERAGE DISCHARGE.--11 years, 5.37 ft<sup>3</sup>/s (0.152 m<sup>3</sup>/s), 3,890 acre-ft/yr (4.80 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 445 ft<sup>3</sup>/s (12.6 m<sup>3</sup>/s) Mar. 21 (gage height, 8.11 ft or 2.472 m); no flow many days.

Period of record: Maximum discharge, 776 ft<sup>3</sup>/s (22.0 m<sup>3</sup>/s) Jan. 21, 1970 (gage height, 9.90 ft or 3.018 m); maximum gage height, 10.30 ft (3.139 m) Jan. 16, 1973; no flow many days in each year.

REMARKS.--Records good. Minor storage in Lake Anza and Jewel Lake. No diversion above station.

REVISIONS (WATER YEARS).--WRD Calif. 1973: 1970(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.13	.10	.24	10	2.5	4.5	2.0	.37	.10	0	
2	.97	10	4.0	.16	16	3.8	4.0	2.0	.28	.05	0	
3	.04	13	6.4	.16	6.7	1.8	3.7	1.8	.31	.09	0	
4	0	14	2.7	.14	17	1.6	10	1.8	.25	.07	0	
5	0	.91	.54	.14	3.9	2.4	40	1.7	.24	.14	0	
6	0	.08	.14	4.8	2.7	2.2	20	1.8	.25	.14	0	
7	0	3.5	.10	2.7	10	25	17	1.7	.29	.13	0	
8	0	.81	.09	4.7	17	60	36	1.8	.38	.11	0	
9	0	.08	.07	1.9	22	12	12	1.7	.25	.04	0	
10	.27	.02	.06	.77	16	26	9.5	1.5	.21	.06	0	
11	.05	.01	.10	.48	5.5	9.7	7.6	1.5	.26	.02	0	
12	0	0	.10	.39	30	5.8	6.6	1.6	.33	.03	0	
13	0	0	.06	.26	142	82	6.0	1.1	.24	.04	0	
14	0	0	.04	.21	19	23	5.4	1.3	.33	.02	0	
15	0	0	.03	.23	10	26	5.4	1.2	.45	.96	0	
16	0	0	.03	.22	7.1	33	5.2	.96	.40	.29	.02	
17	0	0	.03	.13	5.2	12	3.9	.94	.48	.19	.05	
18	0	.42	.03	.15	4.0	8.5	3.6	.92	.35	.09	.05	
19	0	.02	.03	.15	6.4	8.6	3.4	.83	.35	.08	.04	
20	0	.02	.03	.11	6.1	6.7	3.3	.58	.43	.09	.04	
21	0	2.1	.03	.08	3.5	112	2.9	.61	.56	.07	.01	
22	0	.19	.03	.06	2.7	56	2.8	.51	.36	.03	0	
23	0	.08	.03	.05	2.5	20	2.9	.71	.26	.03	.01	
24	0	.03	.03	.05	2.2	17	5.0	.74	.48	0	0	
25	0	.07	.03	.05	2.0	38	4.8	.57	.17	0	0	
26	0	.04	.05	.05	1.9	20	3.0	.49	.20	0	0	
27	6.3	.04	12	.05	1.9	12	2.4	.48	.23	0	0	
28	7.5	.04	3.5	.10	1.9	9.0	2.3	.38	.22	0	0	
29	.41	.04	1.3	.05	---	7.0	2.2	.33	.16	0	0	
30	.10	.04	.45	.05	---	6.0	2.0	.24	.13	0	0	
31	.90	---	.30	3.0	---	5.0	---	.30	---	0	0	---
TOTAL	16.54	45.67	32.43	21.61	375.2	654.6	237.4	34.09	9.22	2.87	.22	0
MEAN	.53	1.52	1.05	.70	13.4	21.1	7.91	1.10	.31	.093	.007	0
MAX	7.5	14	12	4.8	142	112	40	2.0	.56	.96	.05	0
MIN	0	0	.03	.05	1.9	1.6	2.0	.24	.13	0	0	0
AC=FT	33	91	64	43	744	1300	471	68	18	5.7	.4	0

CAL YR 1974 TOTAL 2520.49 MEAN 6.91 MAX 245 MIN 0 AC=FT 5000  
WTR YR 1975 TOTAL 1429.85 MEAN 3.92 MAX 142 MIN 0 AC=FT 2840

Peak discharge (base, 150 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-13	0715	7.06	308	3-15	2245	5.93	151
3-8	0645	6.12	175	3-21	1915	8.11	445
3-13	1400	6.88	283				

## RHEEM CREEK BASIN

11182030 RHEEM CREEK AT SAN PABLO, CALIF.

LOCATION.--Lat 37°58'38", long 122°21'10", in San Pablo Grant, Contra Costa County, on left bank 50 ft (15 m) downstream from Santa Fe Railway bridge at San Pablo, and 0.7 mi (1.1 km) upstream from mouth.

DRAINAGE AREA.--1.49 mi<sup>2</sup> (3.86 km<sup>2</sup>).

PERIOD OF RECORD.--December 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 13.63 ft (4.154 m) above mean sea level (Corps of Engineers bench mark). Prior to Aug. 13, 1965, at site 0.2 mi (0.3 km) upstream at datum 7.74 ft (2.359 m) higher.

AVERAGE DISCHARGE.--14 years (1961-75), 1.44 ft<sup>3</sup>/s (0.0408 m<sup>3</sup>/s), 1,040 acre-ft/yr (1.28 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 304 ft<sup>3</sup>/s (8.61 m<sup>3</sup>/s) Mar. 21 (gage height, 5.80 ft or 1.768 m), from rating curve extended above 150 ft<sup>3</sup>/s (4.25 m<sup>3</sup>/s); no flow several days.  
Period of record: Maximum discharge, 477 ft<sup>3</sup>/s (13.5 m<sup>3</sup>/s) Dec. 20, 1969 (gage height, 6.95 ft or 2.118 m), from rating curve extended above 150 ft<sup>3</sup>/s (4.25 m<sup>3</sup>/s); no flow at times.

REMARKS.--Records good except those below 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s), which are fair. Low flow affected by return flow from industrial waste, leakage, and infrequent releases from off-stream North Reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.28	.14	.08	.01	7.4	1.7	.10	.21	.16	.14	.14	.02
2	.27	.12	4.8	.03	3.9	2.5	.08	.31	.22	.20	.06	.02
3	.37	.11	8.3	.08	4.9	.14	.10	.18	.32	.20	.06	.05
4	.25	.11	1.5	.02	4.7	.14	3.9	.17	.46	.17	.06	.04
5	.20	.10	.07	.02	.34	.95	6.8	.41	.16	.14	.01	.13
6	.22	.12	.07	3.1	.95	.29	1.3	.33	.20	.14	.24	.01
7	.45	4.0	.04	.17	12	14	2.6	.20	.14	.14	.47	.01
8	.13	.15	.04	1.9	25	17	.56	.34	.14	.01	.47	.02
9	.16	.11	.09	.12	9.0	1.1	.30	.29	.25	.01	.04	0
10	.11	.11	.04	.20	4.5	11	.24	.27	.15	.03	.01	.14
11	.19	.09	.04	.20	.86	1.2	.23	.23	.19	.03	.03	.01
12	.10	.10	.03	.20	29	.82	.23	.35	.15	.01	.01	.05
13	.13	.11	.01	.20	26	32	.21	.24	.25	.01	.03	.21
14	.23	.09	.01	.20	1.5	2.3	.21	.25	.18	.04	.01	.01
15	.12	.11	.01	.20	.75	19	.27	.22	.14	.68	.03	.03
16	.32	.10	.01	.17	.50	7.4	1.2	.29	.29	.01	.01	0
17	.16	.10	.01	.03	.40	1.4	.29	.30	.18	.01	.01	.03
18	.23	.78	.01	.03	.35	.83	.22	.23	.30	.01	.08	.01
19	.13	.07	.01	.03	2.2	1.7	.21	.24	.22	.01	.01	.09
20	.09	.07	.01	.03	.41	.54	.21	.16	.20	0	.05	0
21	.22	4.0	.01	.03	.26	40	.19	.27	.17	.01	.11	0
22	.11	.07	.01	.03	.24	4.5	.18	.22	.14	.01	.05	.04
23	.27	.05	.01	.03	.23	.95	.18	.34	.24	.04	.41	0
24	.15	.06	.01	.03	.20	.86	2.1	.32	.34	.01	.18	.01
25	.22	.17	.01	.03	.16	6.4	1.0	.26	.20	.08	.06	.01
26	.26	.05	.01	.03	.16	.24	.17	.26	.34	.06	.02	.03
27	5.9	.05	13	.03	.20	.20	.18	.29	.24	.02	.04	0
28	8.4	.04	2.1	.40	.17	.12	.33	.76	.40	.04	.02	0
29	.20	.05	.06	.04	---	.12	.44	.36	.14	.03	.07	0
30	.15	.05	.03	.03	---	.10	.22	.33	.24	.10	.03	.02
31	1.9	---	.02	18	---	.10	---	.18	---	.20	.02	---
TOTAL	21.92	11.28	30.45	25.62	136.28	169.60	24.25	8.81	6.75	2.59	2.84	.99
MEAN	.71	.38	.98	.83	4.87	5.47	.81	.28	.23	.084	.092	.033
MAX	8.4	4.0	13	18	29	40	6.8	.76	.46	.68	.47	.21
MIN	.09	.04	.01	.01	.16	.10	.08	.16	.14	0	.01	0
AC=FT	43	22	60	51	270	336	48	17	13	5.1	5.6	2.0

CAL YR 1974 TOTAL 429.67 MEAN 1.18 MAX 26 MIN .01 AC=FT 852  
WTR YR 1975 TOTAL 441.38 MEAN 1.21 MAX 40 MIN 0 AC=FT 875

Peak discharge (base, 150 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
1-31	1530	4.86	190	3-15	2300	5.18	226
3-13	1115	4.79	182	3-21	1815	5.80	304

## 11182100 PINOLE CREEK AT PINOLE, CALIF.

LOCATION.--Lat 37°58'21", long 122°14'43", in Pinole Grant, Contra Costa County, on left bank 0.2 mi (0.3 km) downstream from county bridge on Pinole Valley Road, 0.8 mi (1.3 km) upstream from Pinole city boundary.

DRAINAGE AREA.--10.0 mi<sup>2</sup> (25.9 km<sup>2</sup>).

PERIOD OF RECORD.--December 1938 to current year. Monthly discharge only for water years 1939-59, published in WSP 1735.

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

AVERAGE DISCHARGE.--36 years (1939-75), 3.91 ft<sup>3</sup>/s (0.111 m<sup>3</sup>/s), 2,830 acre-ft/yr (3.49 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, not determined, occurred on Mar. 21 (gage height, unknown); minimum daily, 0.04 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Aug. 9, Sept. 5, 6.

Period of record: Maximum discharge, 1,660 ft<sup>3</sup>/s (47.0 m<sup>3</sup>/s) Apr. 2, 1958 (gage height, 11.63 ft or 3.545 m); no flow at times.

REMARKS.--No storage or diversion above station except for minor stock ponds; some inflow from ground-water withdrawals during irrigation season.

COOPERATION.--Records furnished by East Bay Municipal Utility District and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WRD Calif. 1972: 1970.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.27	.46	.44	.46	7.7	1.0	2.9	1.8	.75	.32	.17	.12
2	.27	.39	.50	.46	5.2	1.1	2.7	1.7	.75	.32	.17	.10
3	.33	.37	.71	.46	1.9	.89	2.7	1.8	.72	.28	.18	.08
4	.31	.37	.89	.48	6.9	1.2	5.5	1.8	.68	.28	.20	.06
5	.27	.37	.53	.48	1.4	1.8	7.1	1.7	.68	.28	.09	.04
6	.23	.37	.53	.70	.98	1.6	4.2	1.6	.65	.28	.09	.04
7	.27	.44	.51	.63	1.8	4.1	3.6	1.6	.65	.26	.07	.05
8	.25	.48	.51	1.1	2.2	8.2	3.6	1.6	.61	.26	.06	.08
9	.27	.42	.51	.66	12	2.4	3.3	1.5	.61	.26	.04	.17
10	.28	.39	.51	.60	8.6	4.3	3.1	1.5	.57	.31	.06	.13
11	.27	.37	.51	.58	2.2	2.5	3.0	1.4	.57	.34	.08	.18
12	.21	.37	.51	.55	7.1	2.3	2.9	1.4	.54	.35	.14	.19
13	.15	.37	.51	.53	70	84	2.8	1.4	.54	.35	.15	.17
14	.15	.37	.51	.53	5.3	5.3	2.7	1.4	.54	.37	.18	.17
15	.15	.37	.51	.51	3.1	7.1	3.5	1.3	.50	.72	.19	.15
16	.15	.37	.48	.51	2.1	13	3.0	1.2	.50	.45	.18	.14
17	.14	.37	.48	.51	1.6	3.6	2.6	1.2	.46	.35	.19	.13
18	.13	.37	.48	.51	1.4	3.1	2.5	1.2	.46	.29	.17	.13
19	.15	.37	.48	.51	1.5	3.0	2.4	1.1	.46	.26	.25	.14
20	.26	.37	.48	.51	1.7	2.6	2.4	1.1	.43	.26	.33	.13
21	.23	.48	.48	.51	1.2	208	2.4	1.0	.43	.22	.23	.12
22	.23	.48	.48	.51	1.1	36	2.3	.96	.39	.22	.29	.12
23	.25	.42	.46	.51	1.1	5.3	2.3	.96	.39	.23	.25	.09
24	.27	.42	.46	.51	1.1	4.7	3.3	.96	.39	.16	.07	.09
25	.29	.44	.46	.48	1.1	74	2.5	.96	.35	.19	.06	.09
26	.31	.44	.46	.48	1.0	4.7	2.3	.89	.35	.16	.11	.07
27	.33	.44	1.0	.48	1.0	4.3	2.2	.89	.35	.16	.21	.07
28	.77	.44	1.6	.46	1.0	3.9	2.2	.89	.35	.16	.27	.10
29	.42	.44	.65	.48	---	3.7	2.1	.82	.32	.21	.22	.13
30	.37	.44	.53	.48	---	3.4	1.9	.82	.32	.18	.13	.13
31	.45	---	.53	4.1	---	3.2	---	.75	---	.19	.12	---
TOTAL	8.43	12.20	17.70	20.28	153.28	504.29	90.0	39.20	15.31	8.67	4.95	3.41
MEAN	.27	.41	.57	.65	5.47	16.3	3.00	1.26	.51	.28	.16	.11
MAX	.77	.48	1.6	4.1	70	208	7.1	1.8	.75	.72	.33	.19
MIN	.13	.37	.44	.46	.98	.89	1.9	.75	.32	.16	.04	.04
AC-FT	17	24	35	40	304	1000	179	78	30	17	9.8	6.8
CAL YR 1974 TOTAL	2421.10											
WTR YR 1975 TOTAL	877.72											
MEAN 6.63												
MAX 332												
MIN .13												
AC-FT 4800												
AC-FT 1740												

Date Time Peak discharge (base, 200 ft<sup>3</sup>/s)  
 2-13 0500 G.H. Discharge Date Time G.H. Discharge  
 3-13 unknown -- unknown 3-21 unknown -- unknown  
 3-25 unknown -- unknown

NOTE.--No gage-height record Mar. 3 to Aug. 4.

## ARROYO DEL HAMBRE BASIN

11182400 ARROYO DEL HAMBRE AT MARTINEZ, CALIF.

LOCATION.--Lat 38°00'12", long 122°07'44", in Las Juntas Grant, Contra Costa County, on right bank 40 ft (12 m) upstream from D Street Bridge in Martinez.

DRAINAGE AREA.--15.1 mi<sup>2</sup> (39.1 km<sup>2</sup>).

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 48.33 ft (14.731 m) above mean sea level (levels by Contra Costa County Flood Control District).

AVERAGE DISCHARGE.--11 years, 4.52 ft<sup>3</sup>/s (0.128 m<sup>3</sup>/s), 3,270 acre-ft/yr (4.03 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 1,770 ft<sup>3</sup>/s (50.1 m<sup>3</sup>/s) Mar. 21 (gage height, 10.20 ft or 3.109 m), from rating curve extended as explained below; minimum daily, 0.06 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Oct. 22.  
Period of record: Maximum discharge, 1,960 ft<sup>3</sup>/s (55.5 m<sup>3</sup>/s) Jan. 18, 1973 (gage height, 10.93 ft or 3.331 m), from rating curve extended above 540 ft<sup>3</sup>/s (15.3 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 9.62 ft (2.932 m); no flow at times.

REMARKS.--Records fair except those below 0.50 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s), which are poor. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WRD Calif. 1969: 1967(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.36	.60	.53	18	1.3	5.0	2.7	1.0	.40	.21	.20
2	.23	.14	2.5	.53	11	1.2	4.5	2.5	1.0	.40	.21	.21
3	.22	.12	8.2	.52	4.6	1.2	4.5	2.7	.95	.35	.22	.24
4	.21	.09	2.2	.52	13	1.7	14	2.7	.90	.35	.25	.28
5	.21	.09	.85	.52	2.3	2.7	18	2.5	.90	.35	.25	.32
6	.24	.09	.76	4.1	2.4	2.3	9.0	2.3	.85	.35	.23	.29
7	.50	1.5	.68	1.2	5.8	8.5	6.8	2.3	.85	.32	.22	.28
8	.19	1.0	.76	3.1	7.1	20	6.8	2.3	.80	.33	.19	.34
9	.17	.50	.68	1.0	25	3.9	5.9	2.2	.80	.33	.22	.36
10	.17	.45	.68	.80	15	9.3	5.4	2.2	.75	.39	.32	.33
11	.14	.40	.68	.72	3.9	4.1	5.1	2.0	.75	.43	.31	.35
12	.11	.35	.76	.67	7.1	3.6	4.9	2.0	.70	.45	.13	.29
13	.11	.33	.65	.63	44	60	4.7	2.0	.70	.45	.14	.26
14	.11	.33	.60	.60	6.0	13	4.6	2.0	.70	.47	.14	.21
15	.08	.28	.57	.54	3.9	18	6.6	1.9	.65	.96	.15	.21
16	.08	.33	.54	.54	3.2	25	5.3	1.7	.65	.58	.12	.18
17	.08	.30	.52	.53	2.7	6.8	4.4	1.6	.60	.45	.12	.21
18	.08	.60	.52	.52	2.5	5.6	4.1	1.6	.60	.36	.14	.18
19	.08	.45	.50	.52	3.1	5.1	3.9	1.5	.60	.33	.16	.20
20	.10	.33	.50	.52	2.6	4.4	3.9	1.5	.55	.32	.18	.22
21	.07	1.3	.50	.50	2.2	187	3.8	1.4	.55	.27	.19	.19
22	.06	.45	.50	.49	2.0	36	3.6	1.4	.50	.27	.37	.19
23	.07	.39	.50	.48	1.9	13	3.6	1.3	.50	.28	.15	.20
24	.09	.39	.50	.48	1.8	11	5.9	1.3	.50	.20	.16	.19
25	.10	.53	.50	.48	1.7	51	4.1	1.3	.45	.23	.27	.17
26	.09	.39	.53	.48	1.6	11	3.6	1.2	.45	.19	.18	.17
27	.83	.39	4.7	.48	1.5	9.2	3.4	1.2	.45	.20	.16	.17
28	2.6	.39	2.9	.50	1.4	8.0	3.4	1.2	.45	.19	.15	.17
29	.15	.46	.95	.55	---	7.1	3.2	1.1	.40	.26	.17	.18
30	.12	.53	.68	.51	---	6.4	2.9	1.1	.40	.22	.15	.11
31	1.3	---	.53	18	---	5.7	---	1.0	---	.23	.19	---
TOTAL	8.79	13.26	36.54	41.56	197.3	543.1	164.9	55.7	19.95	10.91	6.05	6.90
MEAN	.28	.44	1.18	1.34	7.05	17.5	5.50	1.80	.67	.35	.20	.23
MAX	2.6	1.5	8.2	18	44	187	18	2.7	1.0	.96	.37	.36
MIN	.06	.09	.50	.48	1.4	1.2	2.9	1.0	.40	.19	.12	.11
AC-FT	17	26	72	82	391	1080	327	110	40	22	12	14
CAL YR 1974 TOTAL	1794.98											
WTR YR 1975 TOTAL	1104.96											
MEAN 4.92												
MAX 182												
MIN .06												
AC-FT 3560												
MEAN 3.03												
MAX 187												
MIN .06												
AC-FT 2190												

Peak discharge (base, 150 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
3-13	1230	3.89	263	3-25	0245	4.02	289
3-21	1915	10.20	1,770				

## 11182500 SAN RAMON CREEK AT SAN RAMON, CALIF.

LOCATION.--Lat 37°46'23", long 121°59'37", in sec.8, T.2 S., R.1 W., Contra Costa County, on right bank 0.2 mi (0.3 km) downstream from Bollinger Creek, and 1.0 mi (1.6 km) southwest of San Ramon.

DRAINAGE AREA.--5.89 mi<sup>2</sup> (15.26 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 530 ft (162 m), from topographic map.

AVERAGE DISCHARGE.--23 years, 2.98 ft<sup>3</sup>/s (0.0844 m<sup>3</sup>/s), 2,160 acre-ft/yr (2.66 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 694 ft<sup>3</sup>/s (19.7 m<sup>3</sup>/s) Mar. 21 (gage height, 7.19 ft or 2.192 m), from rating curve extended as explained below; no flow for several days.

Period of record: Maximum discharge, 1,600 ft<sup>3</sup>/s (45.3 m<sup>3</sup>/s) Oct. 13, 1962 (gage height, 16.98 ft or 5.176 m), from rating curve extended above 90 ft<sup>3</sup>/s (2.55 m<sup>3</sup>/s) on basis of indirect measurements of maximum flow through culvert at gage heights 12.09 ft (3.685 m) and 16.98 ft (5.176 m); no flow for parts of most years.

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

REVISIONS (WATER YEARS).--WSP 1445: 1953-54(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.08	.31	.24	.30	2.0	1.6	6.4	3.9	1.3	.64	.17	.11
2	.07	.19	.36	.29	4.2	1.6	6.1	3.9	1.3	.64	.17	.08
3	.14	.16	2.2	.29	4.4	1.5	6.1	3.9	1.3	.71	.14	.03
4	.14	.15	.99	.36	5.2	1.4	20	3.7	1.2	.71	.14	.02
5	.14	.16	.38	.36	1.7	1.4	29	3.5	1.1	.64	.14	0
6	.08	.16	.33	4.1	1.3	1.6	16	3.4	1.1	.57	.17	0
7	.05	.49	.31	.85	1.7	8.0	24	3.3	1.1	.50	.17	0
8	.11	.39	.29	3.3	2.3	6.8	27	3.2	1.1	.50	.11	.05
9	.14	.20	.29	.71	18	3.8	15	3.1	.98	.50	.11	.11
10	.17	.19	.31	.53	9.3	8.0	12	3.0	.89	.50	.11	.08
11	.14	.17	.32	.44	3.4	4.1	11	2.9	.80	.50	.11	.11
12	.08	.17	.34	.39	5.8	3.7	9.3	2.8	.80	.50	.11	.11
13	.03	.17	.30	.39	40	27	8.5	2.7	.80	.44	.14	.11
14	.03	.17	.30	.38	6.6	11	8.1	2.6	.80	.44	.17	.14
15	.08	.19	.28	.35	4.0	11	8.9	2.6	.80	.57	.17	.11
16	.08	.24	.25	.34	3.7	15	7.7	2.5	.80	.57	.17	.08
17	.08	.25	.25	.33	3.3	7.0	6.7	2.3	.80	.50	.21	.08
18	.05	.33	.25	.32	2.9	6.0	6.1	2.1	.80	.44	.29	.05
19	.08	.34	.25	.31	6.5	5.5	6.1	2.1	.89	.50	.29	.05
20	.11	.29	.25	.32	4.2	4.8	5.5	2.0	.89	.50	.21	.08
21	.11	.70	.25	.31	3.5	75	5.2	2.0	.80	.44	.14	.08
22	.08	.40	.25	.29	3.1	36	4.9	1.8	.71	.39	.11	.08
23	.14	.25	.25	.29	2.6	16	4.9	1.8	.80	.34	.11	.05
24	.21	.25	.25	.29	2.3	16	6.4	1.8	.89	.29	.08	.02
25	.29	.28	.25	.29	2.1	70	4.9	1.7	.80	.29	.08	.02
26	.25	.24	.26	.30	1.9	18	4.7	1.6	.71	.21	.08	0
27	.29	.21	.78	.29	1.7	14	4.4	1.6	.71	.21	.14	0
28	.76	.24	1.4	.30	1.7	11	4.4	1.4	.64	.29	.14	0
29	.28	.21	.43	.34	---	8.9	4.2	1.3	.64	.29	.11	.02
30	.17	.22	.33	.29	---	8.1	4.2	1.3	.64	.29	.11	.03
31	.38	---	.27	3.0	---	7.3	---	1.2	---	.21	.11	---
TOTAL	4.84	7.72	13.21	20.65	149.4	411.1	287.7	77.0	26.89	14.12	4.51	1.70
MEAN	.16	.26	.43	.67	5.34	13.3	9.59	2.48	.90	.46	.15	.057
MAX	.76	.70	2.2	4.1	40	75	29	3.9	1.3	.71	.29	.14
MIN	.03	.15	.24	.29	1.3	1.4	4.2	1.2	.64	.21	.08	0
AC-FT	9.6	15	26	41	296	815	571	153	53	28	8.9	3.4
CAL YR 1974 TOTAL	1664.21											
WTR YR 1975 TOTAL	1018.84											
MEAN	4.56											
MAX	144											
MIN	.02											
AC-FT	3300											
2020												

Peak discharge (base, 100 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-13	0800	3.02	100	4-5	0015	3.22	127
3-21	1930	7.19	694	4-7	2245	3.16	118
3-25	0245	4.64	344				

## PACHECO CREEK BASIN

11183000 SAN RAMON CREEK AT WALNUT CREEK, CALIF.

LOCATION.--Lat 37°52'38", long 122°02'52", in San Ramon Grant, Contra Costa County, on left bank 600 ft (183 m) upstream from Rudgear Road, near south city limits of town of Walnut Creek.

DRAINAGE AREA.--47.9 mi<sup>2</sup> (124.1 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Concrete control since Dec. 4, 1962. Datum of gage is 146.4 ft (44.62 m) above mean sea level (levels by Corps of Engineers). Prior to Dec. 8, 1971, at site 0.6 mi (1.0 km) downstream at different datum.

AVERAGE DISCHARGE.--23 years, 16.2 ft<sup>3</sup>/s (0.459 m<sup>3</sup>/s), 11,740 acre-ft/yr (14.5 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 4,550 ft<sup>3</sup>/s (129 m<sup>3</sup>/s) Mar. 21 (gage height, 7.37 ft or 2.246 m), from rating curve extended above 670 ft<sup>3</sup>/s (19.0 m<sup>3</sup>/s); minimum daily, 1.3 ft<sup>3</sup>/s (0.037 m<sup>3</sup>/s) Sept. 27-30. Period of record: Maximum discharge, 7,980 ft<sup>3</sup>/s (226 m<sup>3</sup>/s) Jan. 31, 1963 (gage height, 14.40 ft or 4.389 m, site and datum then in use), from rating curve extended above 2,200 ft<sup>3</sup>/s (62.3 m<sup>3</sup>/s) on basis of computed discharge at gage height 13.16 ft (4.011 m); maximum gage height, 14.55 ft (4.435 m) Dec. 23, 1955, site and datum then in use; no flow at times in most years.

REMARKS.--Records good. No regulation; pumping for irrigation above station during periods of low flow.

REVISIONS (WATER YEARS).--WSP 1395: 1953(M).

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	7.1	3.2	3.6	38	7.7	20	14	4.8	3.6	2.9	2.5
2	3.1	4.5	6.6	3.4	84	8.0	18	13	4.6	3.6	2.9	2.4
3	3.1	4.2	52	3.4	52	7.2	18	12	6.0	3.5	2.9	2.5
4	2.9	4.2	18	3.7	74	7.2	84	12	6.9	3.5	2.9	2.4
5	2.9	3.9	5.7	4.1	14	13	141	12	6.2	3.5	2.8	2.3
6	2.8	3.6	4.6	42	9.5	12	66	11	6.0	3.5	2.8	2.2
7	2.8	7.9	4.2	10	19	65	86	11	6.5	3.4	2.8	2.2
8	2.5	7.0	4.2	42	27	54	173	11	6.5	3.5	2.8	2.0
9	2.4	3.7	4.2	8.7	156	17	47	11	6.5	3.2	2.8	2.0
10	2.4	3.4	4.2	5.5	94	66	34	11	5.8	3.4	2.6	1.9
11	2.6	3.4	4.3	5.2	23	21	30	10	5.6	3.4	2.6	1.9
12	2.6	4.6	4.4	4.8	41	14	26	10	5.4	3.4	2.8	1.7
13	2.6	3.7	4.2	4.5	229	211	24	10	5.4	3.4	2.6	1.7
14	2.6	3.1	4.0	4.5	37	79	23	9.6	5.2	3.2	2.5	1.7
15	2.6	3.1	4.0	4.4	22	58	30	9.6	4.8	3.8	2.3	1.6
16	2.6	3.1	4.0	4.3	17	125	25	9.6	5.0	4.0	2.3	1.6
17	2.5	3.1	3.8	4.2	15	29	23	8.7	5.2	4.0	2.3	1.6
18	2.4	3.1	3.8	4.1	13	23	20	8.7	4.8	3.8	2.1	1.6
19	2.5	3.1	3.7	4.1	32	18	19	8.5	4.8	3.6	2.4	1.6
20	2.6	3.1	3.6	4.0	22	16	19	6.5	4.4	3.4	2.7	1.6
21	2.6	10	3.6	4.0	14	689	18	5.6	4.4	3.4	2.5	1.6
22	2.6	5.4	3.6	4.7	12	234	17	6.0	5.0	3.4	2.4	1.6
23	2.6	3.9	3.6	4.5	9.9	59	16	6.0	5.0	3.4	2.4	1.6
24	2.7	3.4	3.4	5.4	9.5	47	26	5.8	5.6	3.4	2.4	1.6
25	2.8	3.3	3.4	4.4	9.1	424	19	5.6	5.6	3.2	2.4	1.5
26	2.9	3.4	3.4	3.9	8.4	55	15	5.2	4.6	3.0	2.4	1.4
27	3.1	3.4	21	4.2	7.7	39	14	5.6	4.1	3.0	2.4	1.3
28	17	3.3	35	6.0	7.2	30	14	5.6	4.1	3.0	2.4	1.3
29	5.9	3.2	7.5	6.7	-----	25	13	5.6	3.9	3.0	2.4	1.3
30	3.9	3.2	4.4	6.8	-----	23	14	5.8	3.6	2.9	2.4	1.3
31	9.9	-----	3.4	61	-----	22	-----	5.6	-----	2.9	2.5	-----
TOTAL	109.7	125.9	239.0	282.1	1,096.3	2,498.1	1,092	271.6	156.3	105.3	79.4	53.5
MEAN	3.54	4.20	7.71	9.10	39.2	80.6	36.4	8.76	5.21	3.40	2.56	1.78
MAX	17	10	52	61	229	689	173	14	6.9	4.0	2.9	2.5
MTN	2.4	3.1	3.2	3.4	7.2	7.2	13	5.2	3.6	2.9	2.1	1.3
AC-FT	218	250	474	560	2,170	4,950	2,170	539	310	209	157	106

CAL YR 1974 TOTAL 7,674.0 MEAN 21.0 MAX 686 MIN 2.4 AC-FT 15,220  
WTR YR 1975 TOTAL 6,109.2 MEAN 16.7 MAX 689 MIN 1.3 AC-FT 12,120

Peak discharge (base, 500 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
3-13	1630	3.79	596	3-25	0400	5.66	2,040
3-21	2030	7.37	4,550	4-8	0015	4.00	695



11183600 WALNUT CREEK AT CONCORD, CALIF.

LOCATION.--Lat 37°56'43", long 122°02'55", in Arroyo de las Nueces y Bolbones Grant, Contra Costa County, on right bank at southwest city limits of Concord, 0.2 mi (0.3 km) upstream from Southern Pacific Railroad bridge, and 3.8 mi (6.1 km) downstream from confluence of San Ramon and Las Trampas Creeks.

DRAINAGE AREA.--85.1 mi<sup>2</sup> (220.4 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 35.44 ft (10.802 m) above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--7 years, 48.1 ft<sup>3</sup>/s (1.362 m<sup>3</sup>/s), 34,850 acre-ft/yr (43.0 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 7,050 ft<sup>3</sup>/s (200 m<sup>3</sup>/s) Mar. 21 (gage height, 12.75 ft or 3.886 m), from rating curve extended as explained below; minimum daily, 7.8 ft<sup>3</sup>/s (0.22 m<sup>3</sup>/s) Sept. 27, 30.

Period of record: Maximum discharge, 8,000 ft<sup>3</sup>/s (227 m<sup>3</sup>/s) Feb. 27, 1973 (gage height, 14.0 ft or 4.27 m, estimated), from rating curve extended above 2,500 ft<sup>3</sup>/s (70.8 m<sup>3</sup>/s) on basis of computed discharge at gage height 13.7 ft (4.18 m); minimum daily, 3.0 ft<sup>3</sup>/s (0.085 m<sup>3</sup>/s) Oct. 27, 28, Oct. 30 to Nov. 1, 1972.

REMARKS.--Records good. Flow slightly regulated by Lafayette Reservoir 10 mi (16 km) upstream, capacity, 4,240 acre-ft (5.23 hm<sup>3</sup>). Some small diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	16	9.2	9.7	116	27	45	30	18	13	12	9.8
2	12	17	23	10	170	32	40	29	19	12	13	9.8
3	11	9.2	98	9.7	121	25	44	31	20	13	13	9.9
4	9.7	17	44	10	170	24	184	30	21	13	13	11
5	9.7	8.6	14	10	32	38	272	26	19	14	13	11
6	9.2	8.1	12	86	23	42	130	26	19	13	13	11
7	9.2	20	11	23	61	177	170	24	18	14	13	10
8	9.7	18	10	90	55	127	354	24	18	13	13	11
9	9.7	10	11	19	293	44	110	23	17	13	13	11
10	9.2	17	10	15	201	133	81	23	17	13	12	10
11	10	9.7	11	14	48	52	71	22	16	13	13	11
12	10	10	11	12	71	35	65	23	16	12	13	9.3
13	9.2	9.7	11	12	574	439	59	23	16	13	13	9.3
14	9.2	8.1	11	12	84	157	57	22	15	12	13	10
15	9.7	8.1	10	12	45	142	71	23	14	17	13	9.6
16	10	8.1	11	12	34	227	59	23	17	14	12	9.9
17	10	8.1	10	12	27	81	50	21	16	14	12	10
18	27	8.6	9.2	12	25	63	45	22	15	14	15	9.6
19	11	8.6	9.2	12	47	55	44	22	14	13	14	9.5
20	14	8.1	9.2	12	48	50	42	19	14	13	13	12
21	19	32	9.2	12	25	1370	42	18	14	13	12	12
22	11	14	9.2	13	23	486	39	19	16	14	12	10
23	10	9.7	9.2	12	21	145	36	19	15	13	12	9.5
24	10	8.6	9.2	13	21	119	71	19	16	14	11	9.6
25	11	12	9.2	13	21	733	81	18	16	14	11	9.0
26	10	9.2	9.2	12	22	145	36	17	14	14	11	8.3
27	15	9.2	79	10	24	90	31	18	14	12	11	7.8
28	69	9.2	88	12	25	70	36	18	13	12	11	7.9
29	18	9.2	17	12	---	60	39	19	13	12	11	8.0
30	14	9.2	12	11	---	55	31	20	13	12	10	7.8
31	30	---	10	139	---	50	---	20	---	12	10	---
TOTAL	438.5	350.3	606.0	663.4	2427	5293	2435	691	483	408	381	294.6
MEAN	14.1	11.7	19.5	21.4	86.7	171	81.2	22.3	16.1	13.2	12.3	9.82
MAX	69	32	98	139	574	1370	354	31	21	17	15	12
MIN	9.2	8.1	9.2	9.7	21	24	31	17	13	12	10	7.8
AC-FT	870	695	1200	1320	4810	10500	4830	1370	958	809	756	584
CAL YR 1974 TOTAL	17259.8			MEAN 47.3	MAX 1450	MIN 8.1	AC-FT 34230					
WTR YR 1975 TOTAL	14470.8			MEAN 39.6	MAX 1370	MIN 7.8	AC-FT 28700					

Peak discharge (base, 850 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-13	0745	5.44	1,180	3-25	0345	7.38	2,780
3-13	1245	5.57	1,300	4-8	0045	5.48	1,220
3-21	2000	12.75	7,050				

## PACHECO CREEK BASIN

11183700 LITTLE PINE CREEK NEAR ALAMO, CALIF.

LOCATION.--Lat 37°53'06", long 121°58'36", in Arroyo de las Nueces y Bolbones Grant, Contra Costa County, on right bank 200 ft (61 m) downstream from road ford, 1.2 mi (1.9 km) upstream from mouth, and 3.8 mi (6.1 km) northeast of Alamo.

DRAINAGE AREA.--2.03 mi<sup>2</sup> (5.26 km<sup>2</sup>).

PERIOD OF RECORD.--October 1974 to September 1975.

GAGE.--Water-stage recorder. Altitude of gage is 520 ft (158 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 44 ft<sup>3</sup>/s (1.25 m<sup>3</sup>/s) Mar. 21 (gage height, 2.12 ft or 0.646 m), from rating curve extended above 2.2 ft<sup>3</sup>/s (0.062 m<sup>3</sup>/s) on basis of weir discharge computations; no flow for long periods.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	.05	.19	.40	.54	.33	.03			
2			0	.05	.46	.40	.50	.32	.06			
3			.15	.05	.41	.38	.48	.31	.06			
4			.10	.05	.45	.36	.95	.30	.03			
5			.03	.06	.18	1.3	1.4	.29	.02			
6			.02	.15	.14	1.2	.91	.28	.03			
7			.02	.07	.16	2.0	1.2	.27	.03			
8			.02	.13	.31	2.0	1.6	.26	.03			
9			.02	.07	1.3	1.3	1.0	.25	.01			
10			.02	.06	1.2	2.3	.88	.23	0			
11			.02	.06	.49	1.6	.78	.22	0			
12			.03	.05	.48	1.3	.68	.21	0			
13			.02	.05	3.0	3.4	.65	.20	0			
14			.03	.05	.96	2.1	.61	.18	0			
15			.03	.05	.55	1.6	.61	.19	0			
16			.02	.05	.92	1.7	.56	.18	0			
17			.05	.05	1.8	1.0	.50	.16	0			
18			.08	.06	1.6	.75	.50	.14	.01			
19			.08	.06	1.8	.62	.47	.15	.04			
20			.07	.06	1.6	.49	.45	.14	.05			
21			.08	.06	1.0	4.9	.42	.13	.04			
22			.08	.05	.80	3.1	.42	.13	.03			
23			.03	.06	.65	1.6	.43	.12	.03			
24			.04	.05	.55	1.4	.50	.11	.05			
25			.06	.06	.50	2.5	.41	.09	.04			
26			.06	.06	.45	1.3	.39	.08	.03			
27			.11	.06	.42	1.1	.38	.07	.02			
28			.25	.06	.40	.90	.37	.05	.02			
29			.06	.05	---	.75	.36	.03	.01			
30			.04	.04	---	.69	.35	.03	.01			
31		---	.05	.24	---	.61	---	.03	---			---
TOTAL	0	0	1.67	2.07	22.77	45.05	19.30	5.48	.68	0	0	0
MEAN	0	0	.054	.067	.81	1.45	.64	.18	.023	0	0	0
MAX	0	0	.25	.24	3.0	4.9	1.6	.33	.06	0	0	0
MIN	0	0	0	.04	.14	.36	.35	.03	0	0	0	0
AC=FT	0	0	3.3	4.1	45	89	38	11	1.3	0	0	0

WTR YR 1975 TOTAL 97.02 MEAN .27 MAX 4.9 MIN 0 AC=FT 192

Peak discharge (base, 30 ft<sup>3</sup>/s).--Mar. 21 (1815) 44 ft<sup>3</sup>/s (2.12 ft).

## 11456000 NAPA RIVER NEAR ST. HELENA, CALIF.

LOCATION.--Lat 38°29'52", long 122°25'37", in Carne Humana Grant, Napa County, on right bank 0.2 mi (0.3 km) upstream from highway bridge, 1.3 mi (2.1 km) northeast of Zinfandel, and 2.5 mi (4.0 km) east of St. Helena.

DRAINAGE AREA.--81.4 mi<sup>2</sup> (210.8 km<sup>2</sup>).

PERIOD OF RECORD.--October 1929 to September 1932, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 172.12 ft (52.462 m) above mean sea level. Prior to Nov. 22, 1958, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--39 years, 96.6 ft<sup>3</sup>/s (2.736 m<sup>3</sup>/s), 69,990 acre-ft/yr (86.3 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 8,540 ft<sup>3</sup>/s (242 m<sup>3</sup>/s) Mar. 21 (gage height, 13.10 ft or 3.993 m); minimum daily, 0.37 ft<sup>3</sup>/s (0.010 m<sup>3</sup>/s) Sept. 6.

Period of record: Maximum discharge, 12,600 ft<sup>3</sup>/s (357 m<sup>3</sup>/s) Dec. 22, 1955 (gage height, 16.17 ft or 4.929 m, present datum); no flow at times.

REMARKS.--Records good. Some regulation by Bell Canyon Reservoir since 1959, capacity, 2,530 acre-ft (3.12 hm<sup>3</sup>). Small diversions above station for irrigation of about 1,500 acres (6.07 km<sup>2</sup>).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	3.4	3.8	13	289	73	139	40	13	5.2	1.8	2.3
2	3.1	3.4	5.5	9.9	725	94	123	38	13	4.9	1.2	1.9
3	3.1	3.4	16	6.9	294	76	118	37	13	4.6	1.4	1.9
4	3.1	3.4	47	6.0	569	66	126	35	11	5.2	1.4	1.7
5	3.4	3.1	14	5.5	235	63	131	31	11	5.5	.91	.84
6	3.1	3.1	6.9	77	192	64	130	32	11	5.2	.66	.37
7	3.1	3.8	5.5	58	407	699	115	33	11	4.9	1.2	1.7
8	2.5	3.8	4.6	127	859	786	113	30	11	5.2	1.2	1.9
9	2.5	3.4	4.2	55	1430	448	98	29	10	5.2	.50	1.9
10	2.5	3.4	4.2	41	1020	454	87	29	8.5	4.6	.60	1.9
11	2.5	3.4	4.2	30	410	321	81	27	9.5	4.3	1.2	2.1
12	2.5	3.4	4.2	22	2130	233	76	26	9.0	4.3	1.5	2.3
13	2.5	3.4	4.6	21	3260	190	71	24	8.5	4.1	1.6	2.5
14	2.5	3.4	4.6	84	795	173	69	24	7.1	3.8	1.7	2.5
15	1.5	3.4	4.6	18	435	165	60	24	5.9	4.9	1.9	3.0
16	2.5	3.4	4.6	15	297	289	57	23	6.3	4.6	1.8	3.2
17	2.5	3.4	4.6	14	218	254	55	22	5.9	3.6	2.3	2.5
18	2.5	3.8	4.6	13	167	691	47	20	5.5	3.4	2.5	2.1
19	2.5	4.2	5.0	13	259	786	49	20	5.5	4.1	2.1	1.9
20	3.1	3.8	5.0	13	269	508	48	20	5.9	4.1	2.1	1.7
21	3.1	5.0	5.5	12	182	2410	46	22	5.5	3.8	2.5	1.8
22	2.5	6.9	5.5	11	142	1760	43	20	6.3	3.6	2.7	2.1
23	2.5	4.6	5.5	11	126	734	43	21	5.5	3.4	2.5	1.9
24	2.5	4.2	5.5	9.9	113	634	101	20	6.7	2.8	2.7	2.1
25	2.5	4.6	5.5	9.2	101	1210	95	19	7.6	1.7	2.8	1.5
26	2.5	4.2	5.5	9.9	88	599	67	17	6.3	2.3	2.7	1.1
27	2.5	4.2	67	9.2	81	410	98	16	5.2	2.7	2.7	1.1
28	8.6	4.2	173	9.2	75	305	52	15	5.5	2.5	2.3	1.4
29	4.6	3.8	40	9.2	---	238	46	14	5.9	2.2	2.2	1.9
30	3.8	3.8	20	9.9	---	196	43	14	6.3	1.9	2.2	1.8
31	3.4	---	14	47	---	164	---	14	---	1.8	2.1	---
TOTAL	92.6	115.3	504.7	789.8	15168	15093	2387	756	242.4	120.4	56.97	56.91
MEAN	2.99	3.84	16.3	25.5	542	487	79.6	24.4	8.08	3.88	1.84	1.90
MAX	8.6	6.9	173	127	3260	2410	139	40	13	5.5	2.8	3.2
MIN	1.5	3.1	3.8	5.5	75	63	43	14	5.2	1.7	.50	.37
AC-FT	184	229	1000	1570	30090	29940	4730	1500	481	239	113	113
CAL YR 1974 TOTAL	45139.70			MEAN 124	MAX 3160	MIN 1.5	AC-FT 89530					
WTR YR 1975 TOTAL	35383.08			MEAN 96.9	MAX 3260	MIN .37	AC-FT 70180					

Peak discharge (base, 4,200 ft<sup>3</sup>/s).--Feb. 12 (2300) 6,700 ft<sup>3</sup>/s (11.48 ft); Mar. 21 (2015) 8,540 ft<sup>3</sup>/s (13.10 ft).

## 11456000 NAPA RIVER NEAR ST. HELENA, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1966.

Water temperatures: October 1957 to current year.

Sediment records: December 1956 to June 1962.

EXTREMES.--Current year:

Water temperatures: Maximum, 25.5°C May 29, 30; minimum, 4.5°C Jan. 30.

Period of record:

Water temperatures: Maximum (1961-63, 1964-65, 1966-69, 1970 to current year), 33.5°C July 18, 1968; minimum (1961-63, 1965 to current year), 3.5°C Dec. 14, 15, 1967, Dec. 11, 1972.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

11456500 CONN CREEK NEAR OAKVILLE, CALIF.

LOCATION.--Lat 38°26'50", long 122°22'47", in Caymus Grant, Napa County, on left bank 20 ft (6 m) upstream from Oakville Cross Road bridge, and 1.4 mi (2.3 km) northeast of Oakville.

DRAINAGE AREA.--55.4 mi<sup>2</sup> (143.5 km<sup>2</sup>).

PERIOD OF RECORD.--October 1929 to September 1959 (published as "near St. Helena"), October 1970 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 112.18 ft (34.192 m) above mean sea level (levels by county of Napa). November 1929, to Aug. 4, 1952, at site 3.3 mi (5.3 km) upstream at different datum. Aug. 5, 1952, to Sept. 30, 1959, at site 4.9 mi (7.9 km) upstream at different datum.

AVERAGE DISCHARGE (prior to construction of Conn Dam).--16 years (1929-45), 33.9 ft<sup>3</sup>/s (0.960 m<sup>3</sup>/s), 24,540 acre-ft/yr (30.3 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 1,480 ft<sup>3</sup>/s (41.9 m<sup>3</sup>/s) Mar. 22 (gage height, 8.17 ft or 2.490 m); no flow many days.

Period of record: Maximum discharge, 7,700 ft<sup>3</sup>/s (218 m<sup>3</sup>/s) Feb. 27, 1940 (gage height, 11.80 ft or 3.597 m, site and datum then in use); no flow many days in each year.

REMARKS.--Records good except those below 5 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s), which are fair. Flow regulated by Lake Hennessey 6.5 mi (10.5 km) upstream beginning in December 1945, capacity, 31,000 acre-ft (38.2 hm<sup>3</sup>). Diversion for irrigation of about 700 acres (2.83 km<sup>2</sup>) occurs between dam and gage. Some effluent ground water flows past the station during the summer months at times when the stream is dry a short distance above and below the gage; no flow is computed for these periods.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					0	17	76	9.4	2.6			
2					0	23	61	8.5	2.2			
3					.04	23	56	7.6	2.4			
4					.62	19	64	5.8	2.1			
5					.40	17	79	6.3	2.1			
6					.30	17	77	5.8	2.2			
7					.49	162	66	5.4	1.5			
8					.93	452	61	4.7	1.8			
9					2.8	390	55	6.8	1.7			
10					3.7	312	45	4.0	1.8			
11					1.5	247	37	4.2	2.0			
12					37	176	35	4.7	1.8			
13					510	140	30	4.2	1.6			
14					749	129	28	3.5	1.8			
15					465	107	19	2.0	1.7			
16					288	222	22	1.5	1.7			
17					184	206	16	1.3	1.6			
18					126	276	17	1.3	1.3			
19					102	343	19	1.4	1.2			
20					102	301	19	1.2	.98			
21					74	534	17	1.6	1.2			
22					51	1110	15	2.4	.87			
23					38	562	13	2.9	1.3			
24					32	354	19	2.2	1.1			
25					28	514	29	3.7	1.2			
26					24	378	21	2.6	.72			
27					21	273	14	3.4	.37			
28					19	193	14	1.5	.30			
29					---	143	12	1.8	0			
30					---	118	11	1.9	0			
31		---			---	100	---	2.3	---			---
TOTAL	0	0	0	0	2860.78	7858	1047	115.9	43.14	0	0	0
MFAN	0	0	0	0	102	253	34.9	3.74	1.44	0	0	0
MAX	0	0	0	0	749	1110	79	9.4	2.6	0	0	0
MIN	0	0	0	0	0	17	11	1.2	0	0	0	0
AC-FT	0	0	0	0	5670	15590	2080	230	86	0	0	0
CAL YR 1974	TOTAL	18496.26	MEAN 50.7	MAX 1090	MIN 0	AC-FT 36690						
WTR YR 1975	TOTAL	11924.82	MEAN 32.7	MAX 1110	MIN 0	AC-FT 23650						

NOTE.--No gage-height record Dec. 10 to Jan. 21.

## NAPA RIVER BASIN

11458000 NAPA RIVER NEAR NAPA, CALIF.

LOCATION.--Lat 38°22'06", long 122°18'08", in Yajome Grant, Napa County, on left bank at downstream side of Oak Knoll Avenue bridge, 0.4 mi (0.6 km) downstream from Dry Creek, and 5 mi (8 km) north of Napa.

DRAINAGE AREA.--218 mi<sup>2</sup> (565 km<sup>2</sup>).

PERIOD OF RECORD.--October 1929 to September 1932, October 1959 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 24.74 ft (7.541 m) above mean sea level.

AVERAGE DISCHARGE.--19 years, 190 ft<sup>3</sup>/s (5.381 m<sup>3</sup>/s), 137,700 acre-ft/yr (170 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 10,800 ft<sup>3</sup>/s (306 m<sup>3</sup>/s) Mar. 22 (gage height, 18.94 ft or 5.773 m); minimum daily, 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) Aug. 20.

Period of record: Maximum discharge, 16,900 ft<sup>3</sup>/s (479 m<sup>3</sup>/s) Jan. 31, 1963 (gage height, 27.59 ft or 8.409 m); no flow at times.

REMARKS.--Records good. Flow slightly regulated by Bell Canyon Reservoir beginning in 1959, capacity, 2,530 acre-ft (3.12 hm<sup>3</sup>) and Lake Hennessey beginning in December 1945, capacity, 31,000 acre-ft (38.2 hm<sup>3</sup>). Diversions for irrigation of about 10,000 acres (40.5 km<sup>2</sup>) above station.

REVISIONS (WATER YEARS).--WSP 1315-B: 1930(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	8.4	6.6	22	613	163	401	99	32	12	9.0	5.7
2	5.8	8.2	17	19	1170	203	347	93	28	12	7.1	5.0
3	5.4	7.7	35	17	558	176	328	90	30	11	6.4	4.3
4	5.5	7.9	100	16	930	156	340	81	28	11	5.7	5.0
5	5.7	7.7	40	15	515	147	372	75	24	12	5.0	5.0
6	5.9	10	15	71	393	148	361	76	27	11	4.3	5.0
7	6.1	8.1	9.0	147	649	932	314	76	24	11	6.4	5.0
8	6.1	8.7	7.8	221	1220	1390	300	74	25	11	5.0	5.0
9	5.6	8.4	7.4	133	2260	957	273	72	24	11	4.3	5.7
10	4.7	7.8	7.4	81	1790	893	243	69	21	11	3.6	7.1
11	4.6	7.3	7.4	65	808	693	223	64	21	10	4.3	7.7
12	4.7	7.1	7.6	48	2490	534	209	64	21	9.6	4.3	8.3
13	6.0	6.1	7.8	39	6920	455	196	63	20	10	5.0	8.3
14	6.2	6.0	8.2	104	2080	430	187	59	20	9.6	4.3	8.3
15	6.3	6.0	8.2	57	1200	395	158	55	19	9.6	3.6	7.7
16	6.1	6.2	8.2	34	783	916	147	53	20	9.6	3.6	8.3
17	5.9	5.9	8.4	27	588	610	138	52	19	9.0	4.3	9.0
18	4.6	6.3	8.6	25	470	1060	121	50	19	8.3	4.3	9.6
19	5.5	6.2	8.8	24	505	1160	124	49	16	9.0	5.0	9.6
20	5.9	6.3	9.0	22	580	891	126	46	16	9.0	1.8	10
21	6.9	8.0	9.2	21	429	2890	124	45	16	8.3	4.3	7.7
22	6.4	9.3	9.4	20	348	4880	117	47	15	6.4	5.0	6.4
23	6.0	10	9.8	19	296	1900	110	49	15	7.7	5.0	6.4
24	6.0	8.2	10	19	263	1410	164	47	16	6.4	5.0	6.4
25	6.0	7.5	10	18	238	2440	223	45	16	7.7	5.7	6.4
26	6.0	7.3	13	17	208	1400	145	45	16	2.7	5.7	6.4
27	6.0	7.0	90	17	189	1010	129	40	13	4.3	5.7	5.7
28	20	6.8	310	16	174	760	122	36	12	7.1	5.0	5.0
29	14	6.8	140	16	---	620	110	30	12	6.4	5.0	5.0
30	10	6.6	40	16	---	532	104	28	12	11	5.0	5.0
31	8.8	---	29	68	---	470	---	30	---	8.3	5.7	---
TOTAL	209.3	223.8	997.8	1434	28667	30621	6256	1802	597	283.0	154.4	200.0
MEAN	6.75	7.46	32.2	46.3	1024	988	209	58.1	19.9	9.13	4.98	6.67
MAX	20	10	310	221	6920	4880	401	99	32	12	9.0	10
MIN	4.6	5.9	6.6	15	174	147	104	28	12	2.7	1.8	4.3
AC-FT	415	444	1980	2840	56860	60740	12410	3570	1180	561	306	397
CAL YR 1974 TOTAL	94304.4			MEAN 258	MAX 6350	MIN 4.6	AC-FT 187100					
WTR YR 1975 TOTAL	71445.3			MEAN 196	MAX 6920	MIN 1.8	AC-FT 141700					

Peak discharge (base, 5,000 ft<sup>3</sup>/s).--Feb. 13 (0100) 10,500 ft<sup>3</sup>/s (18.87 ft); Mar. 22 (0045) 10,800 ft<sup>3</sup>/s (18.94 ft).

11458000 NAPA RIVER NEAR NAPA, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).  
Sediment records: Water year 1971 (partial-record station).

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)
NOV. 14...	1030	5.9	25	25	188	0	154	29	--	--	--
JAN. 09...	1345	119	16	18	90	0	74	12	166	.23	53.3
MAR. 12...	1230	525	14	12	95	0	78	6.6	115	.16	163
MAY 07...	1330	78	21	16	141	0	116	11	180	.24	37.9
JULY 11...	1315	10	--	21	188	0	154	--	257	.35	6.94
SEP. 11...	1130	7.7	29	22	208	0	171	16	258	.35	5.36

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 OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)
NOV. 14...	171	17	--	422	8.0	14.5	1	12.3	3.0	700
JAN. 09...	85	11	--	222	7.3	8.5	15	11.0	7.2	300
MAR. 12...	82	4	--	193	7.4	12.0	6	10.2	6.1	0
MAY 07...	128	12	--	300	7.8	18.0	1	10.5	3.6	200
JULY 11...	164	10	.7	376	8.0	24.0	--	11.3	3.0	--
SEP. 11...	176	5	--	348	8.0	19.5	0	9.8	3.3	--

## NAPA RIVER BASIN

11458100 MILLIKEN CREEK NEAR NAPA, CALIF.

LOCATION.--Lat 38°20'19", long 122°16'06", in Yajome Grant, Napa County, on right bank at upstream side of Hedgeside Road bridge, 3.0 mi (4.8 km) northwest of town of Napa.

DRAINAGE AREA.--17.3 mi<sup>2</sup> (44.8 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 37.68 ft (11.485 m) above mean sea level (levels by county of Napa).

AVERAGE DISCHARGE.--5 years, 22.9 ft<sup>3</sup>/s (0.649 m<sup>3</sup>/s), 16,600 acre-ft/yr (20.5 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 7,840 ft<sup>3</sup>/s (222 m<sup>3</sup>/s) Mar. 21 (gage height, 7.89 ft or 2.405 m), from rating curve extended as explained below; no flow several days.

Period of record: Maximum discharge, 7,840 ft<sup>3</sup>/s (222 m<sup>3</sup>/s) Mar. 21, 1975 (gage height, 7.89 ft or 2.405 m), from rating curve extended above 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s); maximum gage height, 8.38 ft (2.554 m) Jan. 16, 1973 (backwater from debris); no flow at times.

REMARKS.--Records good. Flow regulated by Milliken Reservoir, capacity, 2,000 acre-ft (2.47 km<sup>3</sup>) and by several small lakes and diversion dams on the Silverado Golf Course; diversions above station for irrigation of about 500 acres (2.02 km<sup>2</sup>).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	.55	1.0	3.4	143	12	15	3.4	1.0	.09	0	.94
2	1.7	.33	1.7	3.4	95	25	14	3.4	.61	.55	0	.76
3	1.5	.49	5.9	3.4	52	17	13	3.8	1.5	.04	.01	.55
4	.55	.94	8.8	3.1	131	12	14	3.4	1.5	0	0	.55
5	1.2	.68	2.7	3.1	26	9.7	25	2.4	1.3	.10	.49	.76
6	2.2	.76	2.4	18	18	14	23	3.1	.31	.29	.23	.61
7	1.3	.94	2.4	8.8	30	89	15	2.7	.09	.94	.20	.76
8	1.5	.94	2.7	12	198	165	21	2.2	.38	1.5	.12	.94
9	1.5	.94	2.4	5.3	668	61	15	1.2	.94	.49	.23	.68
10	2.4	.94	2.4	3.4	244	82	12	.31	1.3	.68	.94	.61
11	1.2	.85	2.4	2.7	82	46	11	.68	.76	.09	1.9	1.0
12	2.4	.85	2.4	2.2	1330	33	9.7	3.1	1.0	.11	.29	.68
13	2.7	.94	2.7	1.9	1530	40	6.5	1.9	.23	.68	.49	1.0
14	2.2	.68	2.7	1.7	165	40	7.2	1.7	.17	.55	.04	1.9
15	1.9	.55	2.7	1.7	71	37	6.5	1.7	1.7	.38	.11	1.0
16	1.7	.76	2.7	1.7	48	102	7.2	1.5	1.7	.36	.36	1.9
17	1.9	.55	4.3	9.6	35	46	5.9	1.7	1.0	.68	.43	2.7
18	1.9	1.9	3.8	2.7	29	74	5.9	1.3	1.9	1.9	.29	2.7
19	3.8	1.0	3.1	2.4	66	52	5.3	1.3	1.7	.21	.49	1.9
20	3.8	1.2	3.1	2.2	54	40	4.3	4.3	.38	.36	1.2	.04
21	3.8	8.8	3.1	2.2	38	1090	4.3	2.4	.21	.38	1.3	.14
22	3.8	2.2	2.4	1.7	26	430	3.8	1.5	4.7	.55	.76	4.3
23	3.8	.20	2.2	1.3	21	125	3.8	1.3	2.4	.04	.68	.27
24	4.3	.15	2.4	1.3	18	128	7.2	1.5	1.7	.21	.68	1.9
25	3.4	.15	2.2	1.4	17	430	8.0	1.5	1.7	.01	.61	1.3
26	.76	.29	2.4	1.4	9.7	106	4.7	1.2	1.3	0	1.3	1.5
27	.76	1.0	9.7	1.3	11	61	4.3	1.0	1.3	0	1.7	1.5
28	3.4	1.0	30	1.3	13	37	5.9	1.3	.85	.08	.85	1.5
29	1.2	1.0	6.5	1.2	---	21	2.2	1.7	.27	.38	.55	1.7
30	1.5	1.0	3.4	1.2	---	17	2.4	.94	.21	0	.49	.96
31	.55	---	4.7	50	---	19	---	1.3	---	0	.76	---
TOTAL	66.52	32.58	131.3	157.0	5168.7	3460.7	283.1	60.73	34.11	11.65	17.50	37.05
MEAN	2.15	1.09	4.24	5.06	185	112	9.44	1.96	1.14	.38	.56	1.24
MAX	4.3	8.8	30	50	1530	1090	25	4.3	4.7	1.9	1.9	4.3
MIN	.55	.15	1.0	1.2	9.7	9.7	2.2	.31	.09	0	0	.04
AC=FT	132	65	260	311	10250	6860	562	120	68	23	35	73
CAL YR 1974 TOTAL	8819.71			MEAN 24.2	MAX 940	MIN .14	AC=FT 17490					
WTR YR 1975 TOTAL	9460.94			MEAN 25.9	MAX 1530	MIN 0	AC=FT 18770					

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-9	0230	4.19	1,450	3-21	1800	7.89	7,840
2-12	2300	7.51	7,040	3-25	0300	4.06	1,310



11458000 NAPA RIVER NEAR NAPA, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1973 to current year (partial-record station).  
Sediment records: Water year 1971 (partial-record station).

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)
NOV. 14...	1030	5.9	25	25	188	0	154	29	--	--	--
JAN. 09...	1345	119	16	18	90	0	74	12	166	.23	53.3
MAR. 12...	1230	525	14	12	95	0	78	6.6	115	.16	163
MAY 07...	1330	78	21	16	141	0	116	11	180	.24	37.9
JULY 11...	1315	10	--	21	188	0	154	--	257	.35	6.94
SEP. 11...	1130	7.7	29	22	208	0	171	16	258	.35	5.36

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 OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)
NOV. 14...	171	17	--	422	8.0	14.5	1	12.3	3.0	700
JAN. 09...	85	11	--	222	7.3	8.5	15	11.0	7.2	300
MAR. 12...	82	4	--	193	7.4	12.0	6	10.2	6.1	0
MAY 07...	128	12	--	300	7.8	18.0	1	10.5	3.6	200
JULY 11...	164	10	.7	376	8.0	24.0	--	11.3	3.0	--
SEP. 11...	176	5	--	348	8.0	19.5	0	9.8	3.3	--

## NAPA RIVER BASIN

11458100 MILLIKEN CREEK NEAR NAPA, CALIF.

LOCATION.--Lat 38°20'19", long 122°16'06", in Yajome Grant, Napa County, on right bank at upstream side of Hedgeside Road bridge, 3.0 mi (4.8 km) northwest of town of Napa.

DRAINAGE AREA.--17.3 mi<sup>2</sup> (44.8 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 37.68 ft (11.485 m) above mean sea level (levels by county of Napa).

AVERAGE DISCHARGE.--5 years, 22.9 ft<sup>3</sup>/s (0.649 m<sup>3</sup>/s), 16,600 acre-ft/yr (20.5 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 7,840 ft<sup>3</sup>/s (222 m<sup>3</sup>/s) Mar. 21 (gage height, 7.89 ft or 2.405 m), from rating curve extended as explained below; no flow several days.

Period of record: Maximum discharge, 7,840 ft<sup>3</sup>/s (222 m<sup>3</sup>/s) Mar. 21, 1975 (gage height, 7.89 ft or 2.405 m), from rating curve extended above 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s); maximum gage height, 8.38 ft (2.554 m) Jan. 16, 1973 (backwater from debris); no flow at times.

REMARKS.--Records good. Flow regulated by Milliken Reservoir, capacity, 2,000 acre-ft (2.47 km<sup>3</sup>) and by several small lakes and diversion dams on the Silverado Golf Course; diversions above station for irrigation of about 500 acres (2.02 km<sup>2</sup>).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	.55	1.0	3.4	143	12	15	3.4	1.0	.09	0	.94
2	1.7	.33	1.7	3.4	95	25	14	3.4	.61	.55	0	.76
3	1.5	.49	5.9	3.4	52	17	13	3.8	1.5	.04	.01	.55
4	.55	.94	8.8	3.1	131	12	14	3.4	1.5	0	0	.55
5	1.2	.68	2.7	3.1	26	9.7	25	2.4	1.3	.10	.49	.76
6	2.2	.76	2.4	18	18	14	23	3.1	.31	.29	.23	.61
7	1.3	.94	2.4	8.8	30	89	15	2.7	.09	.94	.20	.76
8	1.5	.94	2.7	12	198	165	21	2.2	.38	1.5	.12	.94
9	1.5	.94	2.4	5.3	668	61	15	1.2	.94	.49	.23	.68
10	2.4	.94	2.4	3.4	244	82	12	.31	1.3	.68	.94	.61
11	1.2	.85	2.4	2.7	82	46	11	.68	.76	.09	1.9	1.0
12	2.4	.85	2.4	2.2	1330	33	9.7	3.1	1.0	.11	.29	.68
13	2.7	.94	2.7	1.9	1530	40	6.5	1.9	.23	.68	.49	1.0
14	2.2	.68	2.7	1.7	165	40	7.2	1.7	.17	.55	.04	1.9
15	1.9	.55	2.7	1.7	71	37	6.5	1.7	1.7	.38	.11	1.0
16	1.7	.76	2.7	1.7	48	102	7.2	1.5	1.7	.36	.36	1.9
17	1.9	.55	4.3	9.6	35	46	5.9	1.7	1.0	.68	.43	2.7
18	1.9	1.9	3.8	2.7	29	74	5.9	1.3	1.9	1.9	.29	2.7
19	3.8	1.0	3.1	2.4	66	52	5.3	1.3	1.7	.21	.49	1.9
20	3.8	1.2	3.1	2.2	54	40	4.3	4.3	.38	.36	1.2	.04
21	3.8	8.8	3.1	2.2	38	1090	4.3	2.4	.21	.38	1.3	.14
22	3.8	2.2	2.4	1.7	26	430	3.8	1.5	4.7	.55	.76	4.3
23	3.8	.20	2.2	1.3	21	125	3.8	1.3	2.4	.04	.68	.27
24	4.3	.15	2.4	1.3	18	128	7.2	1.5	1.7	.21	.68	1.9
25	3.4	.15	2.2	1.4	17	430	8.0	1.5	1.7	.01	.61	1.3
26	.76	.29	2.4	1.4	9.7	106	4.7	1.2	1.3	0	1.3	1.5
27	.76	1.0	9.7	1.3	11	61	4.3	1.0	1.3	0	1.7	1.5
28	3.4	1.0	30	1.3	13	37	5.9	1.3	.85	.08	.85	1.5
29	1.2	1.0	6.5	1.2	---	21	2.2	1.7	.27	.38	.55	1.7
30	1.5	1.0	3.4	1.2	---	17	2.4	.94	.21	0	.49	.96
31	.55	---	4.7	50	---	19	---	1.3	---	0	.76	---
TOTAL	66.52	32.58	131.3	157.0	5168.7	3460.7	283.1	60.73	34.11	11.65	17.50	37.05
MEAN	2.15	1.09	4.24	5.06	185	112	9.44	1.96	1.14	.38	.56	1.24
MAX	4.3	8.8	30	50	1530	1090	25	4.3	4.7	1.9	1.9	4.3
MIN	.55	.15	1.0	1.2	9.7	9.7	2.2	.31	.09	0	0	.04
AC-FT	132	65	260	311	10250	6860	562	120	68	23	35	73
CAL YR 1974	TOTAL	8819.71	MEAN	24.2	MAX	940	MIN	.14	AC-FT	17490		
WTR YR 1975	TOTAL	9460.94	MEAN	25.9	MAX	1530	MIN	0	AC-FT	18770		

Peak discharge (base, 600 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-9	0230	4.19	1,450	3-21	1800	7.89	7,840
2-12	2300	7.51	7,040	3-25	0300	4.06	1,310

## NAPA RIVER BASIN

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11458300 NAPA CREEK AT NAPA, CALIF.

LOCATION.--Lat 38°18'07", long 122°18'10", in Napa Grant, Napa County, on left bank 150 ft (46 m) upstream from bridge on State Highway 29 in town of Napa, 0.6 mi (1.0 km) downstream from confluence of Redwood and Browns Creeks.

DRAINAGE AREA.--14.9 mi<sup>2</sup> (38.6 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 32.60 ft (9.936 m) above mean sea level (levels by county of Napa).

AVERAGE DISCHARGE.--5 years, 17.6 ft<sup>3</sup>/s (0.498 m<sup>3</sup>/s), 12,750 acre-ft/yr (15.7 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,560 ft<sup>3</sup>/s (72.5 m<sup>3</sup>/s) Mar. 21 (gage height, 10.90 ft or 3.322 m, from crest-stage gage), from rating curve extended above 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s); minimum daily, 0.01 ft<sup>3</sup>/s (<0.001 m<sup>3</sup>/s) many days.

Period of record: Maximum discharge, 2,560 ft<sup>3</sup>/s (72.5 m<sup>3</sup>/s) Mar. 21, 1975 (gage height, 10.90 ft or 3.322 m, from crest-stage gage), from rating curve extended above 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s); no flow for many days in most years.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.15	.17	.77	64	9.3	29	4.4	.22	.21	.50	.01
2	.53	.09	.62	.46	48	22	25	3.9	.20	.21	.05	.03
3	.12	.07	4.9	.28	68	12	23	3.9	.28	.19	.05	.03
4	.06	.06	3.2	.36	102	10	25	3.5	.21	.20	.04	.01
5	.04	.06	2.1	.28	38	10	30	3.3	.15	.29	.04	.05
6	.04	.06	1.1	22	24	11	24	3.9	.21	.19	.08	.02
7	.04	.60	.67	11	52	99	22	3.3	.15	.20	.05	.01
8	.04	.15	.43	28	132	74	29	3.5	.15	.19	.02	.02
9	.07	.08	.29	10	178	39	20	3.5	.12	.18	.01	.05
10	.15	.06	.24	6.1	84	71	16	3.3	.08	.33	.01	.06
11	.15	.04	.21	4.4	42	41	14	2.9	.10	.26	.02	.13
12	.07	.04	.21	2.9	480	31	13	3.1	.21	.28	.03	.13
13	.04	.04	.17	2.3	400	38	12	3.1	.13	.25	.04	.11
14	.04	.04	.15	1.7	200	30	12	3.1	.11	.26	.04	.07
15	.04	.06	.15	1.0	98	48	11	3.1	.09	.54	.03	.03
16	.04	.04	.15	.77	55	83	11	3.5	.13	.37	.03	.03
17	.03	.04	.14	.57	42	45	9.4	4.4	.13	.27	.02	.02
18	.01	.21	.12	.52	34	65	9.1	4.1	.08	.23	.09	.01
19	.01	.10	.12	.46	86	57	8.1	2.2	.08	.19	.09	.01
20	.01	.06	.12	.41	42	40	7.8	1.4	.06	.15	.05	.01
21	.01	.94	.12	.64	31	410	6.9	2.0	.06	.14	.02	.01
22	.01	.46	.14	.84	23	320	6.9	3.5	.05	.17	.02	.01
23	.01	.32	.14	1.1	19	140	7.2	3.9	.03	.13	.02	.01
24	.01	.12	.12	.70	16	130	14	3.9	.02	.11	.02	.01
25	.01	.46	.12	.64	14	270	13	2.2	.02	.11	.02	.01
26	.01	.26	.12	.57	13	180	8.1	.64	.01	.12	.02	.01
27	2.7	.19	8.8	.57	11	84	8.4	.92	.01	.16	.04	.01
28	1.6	.18	36	.57	9.3	59	5.6	.52	.05	.13	.03	.02
29	.15	.17	7.2	.41	---	46	4.8	.41	.12	.11	.01	.02
30	.11	.16	3.7	.24	---	37	4.6	.28	.14	.11	.01	.06
31	.19	---	2.2	32	---	33	---	.24	---	.21	.01	---
TOTAL	6.36	5.31	73.92	132.56	2405.3	2544.3	429.9	85.51	3.40	6.49	1.51	1.01
MEAN	.21	.18	2.38	4.28	85.9	82.1	14.3	2.76	.11	.21	.049	.034
MAX	2.7	.94	36	32	480	410	30	4.4	.28	.54	.50	.13
MIN	.01	.04	.12	.24	9.3	9.3	4.6	.24	.01	.11	.01	.01
AC-FT	13	11	147	263	4770	5050	853	170	6.7	13	3.0	2.0
CAL YR 1974 TOTAL	6328.66			MEAN 17.3	MAX 392	MIN .01	AC-FT 12550					
WTR YR 1975 TOTAL	5695.57			MEAN 15.6	MAX 480	MIN .01	AC-FT 11300					

Peak discharge (base, 600 ft<sup>3</sup>/s).--Feb. 12 (time unknown) 2,400 ft<sup>3</sup>/s (10.52 ft); Mar. 21 (time unknown) 2,560 ft<sup>3</sup>/s (10.90 ft).

NOTE.--No gage-height record Mar. 21-31.

## NAPA RIVER BASIN

11458350 TULUCAY CREEK AT NAPA, CALIF.

LOCATION.--Lat 38°17'09", long 122°16'29", in Tulucay Grant, Napa County, on left bank 150 ft (46 m) downstream from bridge on State Highways 12 and 29 in Napa.

DRAINAGE AREA.--12.6 mi<sup>2</sup> (32.6 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 3.65 ft (1.113 m) above mean sea level (levels by county of Napa).

EXTREMES.--Current year: Maximum discharge, 1,260 ft<sup>3</sup>/s (35.7 m<sup>3</sup>/s) Mar. 21 (gage height, 4.54 ft or 1.384 m), from rating curve extended above 560 ft<sup>3</sup>/s (15.9 m<sup>3</sup>/s); minimum daily, 0.15 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) Oct. 3-6, Aug. 7, 8.

Period of record: Maximum discharge, 1,260 ft<sup>3</sup>/s (35.7 m<sup>3</sup>/s) Mar. 21, 1975 (gage height, 4.54 ft or 1.384 m), from rating curve extended above 560 ft<sup>3</sup>/s (15.9 m<sup>3</sup>/s); maximum gage height, 5.55 ft (1.692 m) Jan. 16, 1973 (affected by tide); minimum daily discharge, 0.02 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Aug. 22, Sept. 8, 9, 1972.

REMARKS.--Records good. No regulation; some small diversions above station for irrigation of about 30 acres (121,000 m<sup>2</sup>).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.34	.44	1.1	15	4.8	8.2	1.8	.40	.37	.23	.26
2	.17	.31	1.4	1.0	36	6.0	7.3	1.7	.40	.37	.23	.23
3	.15	.31	5.2	.87	21	4.5	6.8	1.8	.40	.37	.23	.23
4	.15	.31	3.6	.94	50	4.2	7.7	1.7	.40	.23	.21	.21
5	.15	.34	1.6	.87	19	4.2	13	1.6	.40	.40	.21	.21
6	.15	.34	1.0	6.8	15	4.5	11	1.5	.37	.40	.17	.23
7	.24	.94	.87	3.9	27	23	9.4	1.4	.37	.44	.15	.21
8	.94	.63	.80	5.6	47	192	10	1.4	.37	.40	.15	.21
9	.34	.48	.74	3.3	92	62	9.4	1.3	.37	.40	.17	.21
10	.28	.44	.68	2.8	64	64	7.7	1.2	.37	.40	.21	.21
11	.28	.44	.63	2.4	31	38	6.8	1.2	.37	.40	.21	.21
12	.26	.44	.63	2.1	229	26	6.0	1.1	.40	.34	.21	.21
13	.26	.44	.58	1.9	207	39	5.2	1.0	.37	.34	.23	.21
14	.26	.44	.58	1.8	64	31	5.2	1.0	.37	.31	.23	.21
15	.26	.48	.58	1.6	38	33	4.5	1.0	.34	.31	.23	.21
16	.26	.48	.58	1.6	26	50	4.5	1.0	.37	.26	.23	.21
17	.23	.48	.58	1.5	18	30	4.2	1.0	.37	.26	.23	.21
18	.23	.58	.53	1.4	14	27	3.9	.87	.37	.28	.26	.21
19	.23	.48	.53	1.3	19	20	3.3	.87	.37	.28	.26	.21
20	.23	.44	.53	1.2	18	16	3.1	.80	.37	.28	.26	.21
21	.23	.94	.53	1.0	13	175	2.8	.74	.37	.28	.23	.21
22	.23	.58	.53	.94	10	127	2.8	.68	.37	.31	.23	.19
23	.21	.48	.48	.87	8.2	59	2.6	.68	.37	.28	.23	.19
24	.21	.53	.44	.87	7.7	50	2.8	.68	.37	.28	.23	.19
25	.23	.53	.48	.94	6.8	115	2.6	.58	.37	.26	.23	.19
26	.21	.53	.48	.87	6.0	48	2.6	.53	.37	.26	.23	.21
27	1.4	.48	3.6	.87	5.2	33	2.2	.53	.37	.26	.26	.21
28	.68	.48	6.0	.80	4.8	22	2.1	.44	.34	.26	.23	.21
29	.28	.44	2.6	.80	---	16	1.9	.40	.37	.26	.23	.21
30	.28	.44	1.7	.80	---	13	1.8	.40	.37	.26	.23	.21
31	.34	---	1.3	9.7	---	11	---	.40	---	.23	.26	---
TOTAL	9.54	14.57	40.22	62.44	1111.7	1348.2	161.4	31.30	11.19	9.95	6.92	6.33
MEAN	.31	.49	1.30	2.01	39.7	43.5	5.38	1.01	.37	.32	.22	.21
MAX	1.4	.94	6.0	9.7	229	192	13	1.8	.40	.44	.26	.26
MIN	.15	.31	.44	.80	4.8	4.2	1.8	.40	.34	.23	.15	.19
AC-FT	19	29	80	124	2210	2670	320	62	22	20	14	13
CAL YR 1974	TOTAL	3365.05	MEAN	9.22	MAX	203	MIN	.15	AC-FT	6670		
WTR YR 1975	TOTAL	2813.76	MEAN	7.71	MAX	229	MIN	.15	AC-FT	5580		

Peak discharge (base, 400 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-12	1845	4.17	871	3-21	1845	4.54	1,260
3-8	0715	4.04	754				

## 11458500 SONOMA CREEK AT AGUA CALIENTE, CALIF.

LOCATION.--Lat 38°19'24", long 122°29'36", in Agua Caliente Grant, Sonoma County, on left bank 20 ft (6 m) upstream from bridge, and 0.4 mi (0.6 km) west of Agua Caliente.

DRAINAGE AREA.--58.4 mi<sup>2</sup> (151.3 km<sup>2</sup>).

PERIOD OF RECORD.--February 1955 to current year. Prior to October 1966, published as "at Boyes Hot Springs."

GAGE.--Water-stage recorder. Concrete control since Aug. 12, 1975. Altitude of gage is 120 ft (37 m), from topographic map. Prior to July 24, 1967, at site 0.8 mi (1.3 km) downstream at different datum. July 24, 1967, to Oct. 9, 1968, at site 130 ft (40 m) upstream at different datum.

AVERAGE DISCHARGE.--20 years, 75.8 ft<sup>3</sup>/s (2.147 m<sup>3</sup>/s), 54,920 acre-ft/yr (67.7 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 6,910 ft<sup>3</sup>/s (196 m<sup>3</sup>/s) Mar. 21 (gage height, 13.42 ft or 4.090 m), from rating curve extended above 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s); minimum daily, 0.07 ft<sup>3</sup>/s (0.002 m<sup>3</sup>/s) Oct. 23. Period of record: Maximum discharge, 8,880 ft<sup>3</sup>/s (251 m<sup>3</sup>/s) Dec. 22, 1955 (gage height, 17.10 ft or 5.212 m, site and datum then in use), from rating curve extended above 4,100 ft<sup>3</sup>/s (116 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow at times.

REMARKS.--Records good. No regulation; some diversion above station for irrigation of about 2,000 acres (8.09 km<sup>2</sup>).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.6	2.6	9.7	295	41	93	23	7.8	2.2	1.5	1.1
2	1.3	1.8	5.8	8.8	242	57	76	22	8.1	2.3	1.3	1.5
3	1.4	1.5	30	7.9	326	36	70	22	7.8	2.6	1.2	1.0
4	1.4	1.6	20	7.9	541	28	70	22	6.6	3.0	1.2	.71
5	1.7	1.9	7.9	7.9	146	25	80	20	6.1	3.3	1.5	.49
6	1.3	1.7	5.8	104	121	30	73	19	6.1	3.0	1.2	.42
7	1.2	2.7	4.7	43	321	810	60	18	6.1	2.5	1.2	1.7
8	.91	2.9	4.0	139	821	639	63	16	6.1	2.6	1.4	2.6
9	1.0	2.3	4.5	43	974	303	55	16	5.8	2.5	1.3	.76
10	1.0	2.0	5.0	29	440	472	49	17	5.0	2.3	1.3	.59
11	.66	2.0	5.0	22	210	246	43	17	4.6	2.0	1.2	.65
12	.12	2.2	5.0	18	2140	166	39	15	5.0	2.1	1.1	1.2
13	.15	1.9	5.0	16	2380	161	36	13	5.0	2.3	1.1	.83
14	.08	1.9	5.0	13	600	143	34	13	4.6	2.2	.80	.71
15	.13	1.9	5.8	12	321	271	34	13	4.3	2.6	.61	1.1
16	.18	2.0	5.2	11	210	435	33	13	5.3	3.7	.71	1.2
17	.12	2.0	5.0	9.7	150	246	36	13	5.3	3.0	.96	1.1
18	.11	2.7	4.7	9.7	175	364	30	13	4.3	2.8	.96	1.4
19	.18	2.7	4.7	9.2	349	340	28	12	4.1	2.8	1.5	1.4
20	.12	2.4	4.7	8.8	166	228	28	11	4.3	2.6	1.2	1.6
21	.11	5.3	4.7	8.3	129	1860	26	9.8	5.0	2.3	1.2	1.4
22	.09	4.5	4.7	8.3	104	1250	23	9.8	5.3	2.3	1.1	1.3
23	.07	2.9	5.0	7.9	90	621	24	9.8	4.6	2.1	.83	1.9
24	.20	2.6	5.0	7.9	77	599	59	11	4.6	2.1	.65	1.0
25	.22	3.6	5.0	7.9	62	1160	51	11	4.6	2.1	1.4	.76
26	.20	2.9	5.0	7.9	57	530	35	10	3.9	2.0	.89	.52
27	2.3	2.7	104	6.8	51	330	31	9.1	3.0	1.5	.96	.76
28	8.7	2.7	102	5.2	43	215	27	7.2	2.5	1.3	2.3	1.0
29	2.9	2.7	21	5.0	---	168	26	6.9	2.2	2.1	2.3	1.1
30	1.9	2.6	14	5.2	---	137	24	6.9	2.2	1.9	1.3	1.4
31	2.6	---	11	74	---	118	---	8.1	---	1.6	1.1	---
TOTAL	33.85	75.2	421.8	674.0	11541	12029	1356	427.6	150.2	73.7	37.27	33.20
MEAN	1.09	2.51	13.6	21.7	412	388	45.2	13.8	5.01	2.38	1.20	1.11
MAX	8.7	5.3	104	139	2380	1860	93	23	8.1	3.7	2.3	2.6
MIN	.07	1.5	2.6	5.0	43	25	23	6.9	2.2	1.3	.61	.42
AC-FT	67	149	837	1340	22890	23860	2690	848	298	146	74	66
CAL YR 1974 TOTAL	29070.55			MEAN 79.6	MAX 2030	MIN .07	AC-FT 57660					
WTR YR 1975 TOTAL	26852.82			MEAN 73.6	MAX 2380	MIN .07	AC-FT 53260					

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-3	2215	8.00	2,500	3-7	0945	7.84	2,400
2-12	2200	12.62	6,140	3-21	1745	13.42	6,910

## NOVATO CREEK BASIN

11459500 NOVATO CREEK AT NOVATO, CALIF.

LOCATION.--Lat 38°06'28", long 122°34'44", in Novato Grant, Marin County, on left bank in Novato, 100 ft (30 m) upstream from 7th Street Bridge.

DRAINAGE AREA.--17.6 mi<sup>2</sup> (45.6 km<sup>2</sup>).

PERIOD OF RECORD.--October 1946 to current year. Records of diversions for water years 1952-53, estimated. Prior to October 1966 published as "near Novato."

GAGE.--Water-stage recorder. Altitude of gage is 30 ft (9 m), from topographic map. Prior to Aug. 23, 1967, at site 0.6 mi (1.0 km) upstream at different datum.

AVERAGE DISCHARGE (adjusted for diversion).--29 years, 13.3 ft<sup>3</sup>/s (0.377 m<sup>3</sup>/s), 9,640 acre-ft/yr (11.9 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 844 ft<sup>3</sup>/s (23.9 m<sup>3</sup>/s) Mar. 21 (gage height, 7.44 ft or 2.268 m); minimum daily, 0.03 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Sept. 25.  
Period of record: Maximum discharge, 2,000 ft<sup>3</sup>/s (56.6 m<sup>3</sup>/s) Jan. 14, 1970 (gage height, 11.01 ft or 3.356 m); no flow many days in most years.

REMARKS.--Records fair. Flow regulated by Stafford Lake beginning Dec. 1, 1951, capacity, 4,500 acre-ft (5.55 hm<sup>3</sup>) since Oct. 18, 1954; contents, 2,500 acre-ft (3.08 hm<sup>3</sup>) Sept. 30, 1974, and 2,150 acre-ft (2.65 hm<sup>3</sup>) Sept. 30, 1975. Diversion from Stafford Lake for municipal water supply began Apr. 25, 1952, and amounted to 2,370 acre-ft (2.92 hm<sup>3</sup>) for the current year.

COOPERATION.--Record of diversions furnished by North Marin County Water District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.23	.50	.23	.63	37	12	16	1.8	.82	.45	.17	.08
2	.22	.31	4.0	.56	24	14	13	1.8	.82	.40	.11	.07
3	.23	.27	25	.50	17	9.9	12	1.8	.82	.45	.13	.05
4	.27	.27	2.4	.63	40	8.4	14	1.6	.63	.50	.12	.05
5	.23	.31	.63	.56	12	7.6	17	1.6	.56	.45	.15	.05
6	.20	.35	.50	15	13	7.5	14	1.6	.70	.50	.12	.07
7	.23	1.8	.45	2.1	60	229	12	2.1	.50	.50	.11	.07
8	.27	.35	.45	5.6	95	97	9.0	1.6	.56	.56	.13	.08
9	.35	.27	.45	.95	111	48	8.2	1.6	.50	.40	.10	.10
10	.20	.27	.50	.95	48	62	7.5	1.4	.56	.27	.12	.10
11	.23	.27	.50	.63	27	43	6.2	1.4	.45	.35	.12	.09
12	.20	.27	.56	.50	106	32	5.3	1.4	.45	.27	.14	.08
13	.20	.31	.50	.50	116	48	4.7	1.4	.63	.27	.11	.07
14	.23	.31	.56	.50	40	33	4.7	.56	.70	.31	.12	.08
15	.31	.40	.56	.45	26	67	4.4	1.1	1.2	.95	.15	.07
16	.35	.40	.56	.40	19	72	4.4	1.2	.50	.31	.12	.06
17	.35	.45	.63	.45	16	46	4.1	1.2	.50	.20	.12	.07
18	.40	.56	.70	.40	17	40	3.5	1.2	.45	.20	.15	.06
19	.45	.40	.70	.40	32	35	3.0	1.2	.50	.23	.18	.06
20	.56	.45	.63	.40	29	29	2.7	1.1	.50	.27	.12	.06
21	.50	3.7	.70	.40	21	261	2.7	1.2	.50	.23	.10	.07
22	.56	.23	1.1	.35	17	275	2.7	1.8	.50	.31	.14	.08
23	.50	.19	1.2	.35	15	108	2.1	1.4	.45	.17	.10	.08
24	.56	.18	1.4	.40	14	88	3.5	1.1	.63	.17	.10	.05
25	.63	.20	1.4	.40	12	197	3.0	.95	.40	.20	.10	.03
26	.63	.19	1.6	.40	11	84	2.4	.95	.27	.14	.13	.05
27	.82	.19	26	.45	10	53	2.1	1.1	.31	.15	.11	.06
28	2.8	.19	12	.50	9.4	37	2.1	.95	.40	.15	.10	.07
29	.45	.19	1.1	.50	---	29	2.1	.70	.45	.18	.13	.13
30	.31	.20	.63	.40	---	24	1.8	.82	.35	.13	.10	.13
31	.70	---	.63	45	---	20	---	.70	---	.13	.09	---
TOTAL	14.17	13.98	88.27	81.26	994.4	2116.4	190.2	40.33	16.61	9.80	3.79	2.17
MEAN	.46	.47	2.85	2.62	35.5	68.3	6.34	1.30	.55	.32	.12	.072
MAX	2.8	3.7	26	45	116	275	17	2.1	1.2	.95	.18	.13
MIN	.20	.18	.23	.35	9.4	7.5	1.8	.56	.27	.13	.09	.03
AC-FT	28	28	175	161	1970	4200	377	80	33	19	7.5	4.3
CAL YR 1974	TOTAL	6081.63	MEAN	16.7	MAX	450	MIN	.18	AC-FT	12060		
WTR YR 1975	TOTAL	3571.38	MEAN	9.78	MAX	275	MIN	.03	AC-FT	7080		

## SAN RAFAEL CREEK BASIN

225

11459800 SAN RAFAEL CREEK AT SAN RAFAEL, CALIF.

LOCATION.--Lat 37°58'22", long 122°32'07", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on left bank 22 ft (7 m) upstream from culvert at intersection of Second and Third Streets in town of San Rafael.

DRAINAGE AREA.--1.24 mi<sup>2</sup> (3.21 km<sup>2</sup>).

PERIOD OF RECORD.--November 1971 to current year (seasonal records only).

GAGE.--Water-stage recorder. Datum of gage is 15.56 ft (4.743 m) above mean sea level. Recording rain gage at City Hall 0.3 mi (0.5 km) northeast of gage.

EXTREMES.--Current year: Maximum discharge, 334 ft<sup>3</sup>/s (9.46 m<sup>3</sup>/s) Mar. 21 (gage height, 4.83 ft or 1.472 m).

Period of record: Maximum discharge, 781 ft<sup>3</sup>/s (22.1 m<sup>3</sup>/s) Dec. 21, 1973 (gage height, 7.87 ft or 2.399 m), from rating curve extended above 240 ft<sup>3</sup>/s (6.80 m<sup>3</sup>/s) on basis of computation of flow through culvert.

REMARKS.--Records good. Low flow affected by return flow from urban irrigation. Sediment data for the current year are published in the partial-record section of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			---	---	12	1.1	1.6	1.4				
2			---	---	5.6	1.5	1.5	1.4				
3			---	---	13	.57	1.6	1.4				
4			---	---	12	.54	2.1	1.4				
5			---	---	2.6	.56	3.3	1.3				
6			---	---	5.6	.55	1.9	1.3				
7			---	---	21	7.6	2.0	1.3				
8			---	---	29	4.4	2.4	1.3				
9			---	---	25	1.6	1.6	1.3				
10			---	---	6.8	5.3	1.5	1.3				
11			---	---	2.8	2.5	1.6	1.3				
12			---	---	45	2.2	1.6	1.3				
13			---	---	26	7.1	1.5	1.3				
14			---	---	4.1	2.9	1.5	1.3				
15			---	---	2.3	20	1.4	1.3				
16			---	---	1.5	7.3	2.1	1.3				
17			---	---	1.1	4.2	1.5	1.3				
18			---	---	.93	3.2	1.4	1.3				
19			---	---	1.2	2.7	1.4	1.3				
20			---	---	.80	2.3	1.4	1.2				
21			---	---	.67	55	1.4	1.2				
22			---	---	.63	9.0	1.4	1.2				
23			---	---	.59	4.0	1.5	1.1				
24			---	---	.56	4.4	5.3	1.0				
25			---	---	.54	9.4	1.7	1.0				
26			.28	---	.49	3.1	1.6	1.1				
27		18	---	---	.49	2.6	1.6	1.1				
28		5.0	---	---	.49	2.2	1.5	.77				
29		1.0	---	---	---	2.1	1.4	.33				
30		.71	.32	---	---	1.9	1.5	.30				
31		.56	15	---	---	1.9	---	.30				
TOTAL	---	---	---	---	222.79	173.72	53.8	35.70	---	---	---	---
MEAN	---	---	---	---	7.96	5.60	1.79	1.15	---	---	---	---
MAX	---	---	---	---	45	55	5.3	1.4	---	---	---	---
MIN	---	---	---	---	.49	.54	1.4	.30	---	---	---	---
AC-FT	---	---	---	---	442	345	107	71	---	---	---	---
(a)	1.45	.85	5.03	2.26	16.67	7.99	1.83	0	0	.18	0	0

a Precipitation, in inches.

## SAN RAFAEL CREEK BASIN

11459830 IRWIN CREEK AT SAN RAFAEL, CALIF.

LOCATION.--Lat 37°58'56", long 122°30'50", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on right bank at end of Linden Lane in San Rafael.

DRAINAGE AREA.--0.69 mi<sup>2</sup> (1.79 km<sup>2</sup>).

PERIOD OF RECORD.--November 1971 to current year (seasonal records only).

GAGE.--Water-stage recorder. Altitude of gage is 75 ft (23 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 71 ft<sup>3</sup>/s (2.01 m<sup>3</sup>/s) Mar. 21 (gage height, 3.85 ft or 1.173 m), from rating curve extended as explained below.

Period of record: Maximum discharge, 96 ft<sup>3</sup>/s (2.72 m<sup>3</sup>/s) Jan. 18, 1973 (gage height, 4.46 ft or 1.359 m), from rating curve extended above 37 ft<sup>3</sup>/s (1.05 m<sup>3</sup>/s) on basis of computation of flow through culvert.

REMARKS.--Records good. Low flow affected by return flow from urban irrigation. Sediment data for the current year are published in the partial-record section of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1			0	---	1.0	---	.46					
2			.72	---	.62	---	.23					
3			1.2	---	3.4	---	.13					
4			0	---	3.8	---	.23					
5			---	0	.33	---	1.2					
6			---	.13	1.4	0	.23					
7			---	0	4.6	1.9	.13					
8			---	.01	6.5	1.5	.07					
9			---	0	8.9	1.0	.03					
10			---	---	5.6	2.2	.02					
11			---	---	2.2	1.4	.01					
12			---	---	14	1.2	0					
13			---	---	17	2.3	---					
14			---	---	6.7	1.5	---					
15			---	---	3.3	3.2	---					
16			---	---	1.8	4.0	---					
17			---	---	1.2	3.5	---					
18			---	---	.63	2.6	---					
19			---	---	.63	1.9	---					
20			---	---	.33	1.4	---					
21			---	---	.13	16	---					
22			---	---	.04	13	---					
23			---	---	.03	6.3	0					
24			---	---	.01	3.7	.28					
25			---	---	0	3.8	0					
26			0	---	---	2.4	---					
27			3.8	---	---	1.9	---					
28			.30	---	---	1.5	---					
29			0	---	---	1.2	---					
30			---	0	---	.92	---					
31			---	2.1	---	.63	---					
TOTAL			---	---	---	---	---					
MEAN			---	---	---	---	---					
MAX			---	---	---	---	---					
MIN			---	---	---	---	---					
AC-FT			---	---	---	---	---					



## CORTE MADERA CREEK BASIN

227

11460000 CORTE MADERA CREEK AT ROSS, CALIF.

LOCATION.--Lat 37°57'45", long 122°33'20", in Punta de Quentin Grant, Marin County, on left bank behind fire station at Ross, 1.7 mi (2.7 km) southwest of San Rafael, and 4 mi (6 km) upstream from mouth.

DRAINAGE AREA.--18.1 mi<sup>2</sup> (46.9 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 7.97 ft (2.429 m) above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE.--24 years, 29.0 ft<sup>3</sup>/s (0.821 m<sup>3</sup>/s), 21,010 acre-ft/yr (25.9 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,640 ft<sup>3</sup>/s (74.8 m<sup>3</sup>/s) Mar. 21 (gage height, 15.97 ft or 4.868 m); minimum daily, 0.44 ft<sup>3</sup>/s (0.012 m<sup>3</sup>/s) Sept. 18-26.  
Period of record: Maximum discharge, 3,620 ft<sup>3</sup>/s (103 m<sup>3</sup>/s) Dec. 22, 1955 (gage height, 17.45 ft or 5.319 m); no flow at times.

REMARKS.--Records fair except those for period of indefinite stage-discharge relation, which are poor. Flow regulated by Phoenix Lake 1.7 mi (2.7 km) upstream, capacity, 612 acre-ft (755,000 m<sup>3</sup>). Diversion on tributary above station by Marin Municipal Water District.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	1.2	1.7	2.3	107	35	38	12	2.3	1.3	.71	.52
2	.95	1.0	17	2.0	161	39	33	11	2.5	1.3	.69	.52
3	1.0	.84	71	1.9	82	31	31	10	2.5	1.4	.67	.51
4	.84	.84	8.3	1.9	173	30	36	9.9	2.3	1.6	.66	.51
5	.84	1.0	1.9	1.8	55	29	40	8.8	2.2	1.4	.65	.50
6	.84	1.2	1.4	23	59	27	34	8.3	2.1	1.3	.64	.50
7	.84	4.0	1.3	9.9	358	244	32	7.8	2.0	1.3	.63	.50
8	1.0	1.4	1.0	31	564	146	34	7.8	1.9	1.5	.62	.49
9	1.0	.84	1.0	12	528	98	30	6.9	1.9	1.3	.62	.49
10	1.2	1.0	1.0	7.3	244	119	27	6.4	1.8	1.2	.61	.48
11	1.0	1.4	1.0	4.9	59	81	25	5.6	1.7	1.2	.60	.47
12	.84	1.7	1.0	3.5	676	62	23	6.9	1.7	1.1	.60	.48
13	.77	1.9	1.0	3.0	862	98	20	11	1.6	1.1	.60	.46
14	1.0	3.0	1.0	2.7	209	80	19	7.3	1.6	1.2	.60	.46
15	.84	4.3	1.0	2.3	129	136	18	5.6	1.5	2.6	.58	.45
16	.84	4.9	1.0	2.2	87	207	19	5.3	1.5	1.5	.58	.45
17	.77	5.3	1.0	2.0	67	127	17	4.3	1.5	1.3	.58	.45
18	.84	4.3	1.0	2.0	57	104	15	3.7	1.4	1.2	.57	.44
19	1.0	3.0	.84	1.9	60	84	14	3.5	1.4	1.1	.56	.44
20	1.2	3.0	.84	1.8	53	70	14	3.5	1.4	1.0	.56	.44
21	1.3	14	1.0	1.8	46	629	15	3.5	1.4	.98	.56	.44
22	1.4	1.2	.84	1.8	42	334	14	3.7	1.4	.95	.55	.44
23	1.5	1.0	.84	1.7	39	137	14	3.5	1.9	.92	.54	.44
24	1.5	1.5	.84	1.8	38	104	38	3.5	1.6	.88	.54	.44
25	1.4	1.9	.84	1.8	36	288	29	3.2	1.5	.86	.54	.44
26	1.4	1.3	.84	1.8	33	120	22	3.2	1.3	.85	.54	.44
27	10	1.3	152	1.7	32	87	19	3.0	1.2	.82	.54	.45
28	12	1.4	73	1.7	30	71	16	2.7	1.2	.80	.54	.46
29	1.3	1.4	12	1.7	---	59	14	2.7	1.1	.78	.53	.48
30	1.0	1.5	4.6	1.5	---	52	13	2.5	1.2	.75	.53	.50
31	1.8	---	2.7	127	---	43	---	2.3	---	.73	.52	---
TOTAL	53.11	72.62	364.78	263.7	4886	3771	713	179.4	50.6	36.22	18.26	14.09
MEAN	1.71	2.42	11.8	8.51	175	122	23.8	5.79	1.69	1.17	.59	.47
MAX	12	14	152	127	862	629	40	12	2.5	2.6	.71	.52
MIN	.77	.84	.84	1.5	30	27	13	2.3	1.1	.73	.52	.44
AC-FT	105	144	724	523	9690	7480	1410	356	100	72	36	28
CAL YR 1974	TOTAL	10055.59	MEAN	27.5	MAX	748	MIN	.39	AC-FT	19950		
WTR YR 1975	TOTAL	10422.78	MEAN	28.6	MAX	862	MIN	.44	AC-FT	20670		

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-9	1915	10.95	1,060	3-21	1800	15.97	2,640
2-12	2200	13.60	1,980				

NOTE.--Stage-discharge relation indefinite Mar. 25 to July 22.

## ARROYO CORTE MADERA DEL PRESIDIO BASIN

11460100 ARROYO CORTE MADERA DEL PRESIDIO AT MILL VALLEY, CALIF.

LOCATION.--Lat 37°53'50", long 122°32'06", in Sausalito Grant, Marin County, on right bank near south boundary of town of Mill Valley, 1 mi (2 km) upstream from mouth.

DRAINAGE AREA.--4.69 mi<sup>2</sup> (12.15 km<sup>2</sup>).

PERIOD OF RECORD.--October 1965 to September 1973, May to September 1975.

GAGE.--Water-stage recorder. Datum of gage is 1.85 ft (0.564 m) above mean sea level.

AVERAGE DISCHARGE.--8 years (1965-73), 7.99 ft<sup>3</sup>/s (0.226 m<sup>3</sup>/s), 5,790 acre-ft/yr (7.14 hm<sup>3</sup>/yr).

EXTREMES.--Maximum daily discharge during period May to September 1975, 3.5 ft<sup>3</sup>/s (0.099 m<sup>3</sup>/s) May 7; minimum daily, 0.20 ft<sup>3</sup>/s (0.006 m<sup>3</sup>/s) Sept. 7, 27.  
Period of record: Maximum discharge, 1,180 ft<sup>3</sup>/s (33.4 m<sup>3</sup>/s) Jan. 21, 1970 (gage height, 7.52 ft or 2.292 m); no flow for several days in 1968.

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

DISCHARGE, IN CUBIC FEET PER SECOND, MAY TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	1.2	.71	.41	.28
2								---	1.3	.71	.38	.25
3								---	1.2	.71	.34	.25
4								---	1.2	.71	.34	.23
5								2.8	1.2	.71	.38	.25
6								2.8	1.2	.66	.38	.28
7								3.5	1.2	.71	.41	.20
8								2.5	1.1	.66	.38	.25
9								2.5	1.0	.66	.34	.31
10								2.4	.98	.66	.34	.28
11								2.3	.98	.71	.38	.28
12								2.2	1.0	.61	.38	.31
13								2.2	1.0	.57	.41	.25
14								2.1	.98	.61	.41	.28
15								2.1	1.0	.86	.45	.28
16								2.1	1.0	.71	.41	.25
17								1.9	.92	.53	.45	.23
18								1.8	.92	.53	.45	.25
19								1.9	.92	.49	.45	.28
20								1.7	.92	.45	.41	.25
21								1.6	.92	.49	.41	.23
22								1.6	.92	.49	.38	.23
23								1.6	.92	.45	.34	.25
24								1.5	.98	.49	.38	.23
25								1.4	.81	.45	.31	.23
26								1.5	.76	.41	.38	.23
27								1.4	.76	.41	.41	.20
28								1.3	.71	.45	.45	.23
29								1.2	.71	.49	.38	.25
30								1.2	.71	.45	.34	.25
31								1.3	---	.45	.31	---
TOTAL								---	29.42	18.00	11.99	7.57
MEAN								---	.98	.58	.39	.25
MAX								---	1.3	.86	.45	.31
MIN								---	.71	.41	.31	.20
AC-FT								---	58	36	24	15

## 11460600 LAGUNITAS CREEK NEAR POINT REYES STATION, CALIF.

LOCATION.--Lat 39°04'49", long 122°47'00", in Nicasio (Black) Grant, Marin County, on right bank at upstream side of road bridge, 300 ft (91 m) downstream from small right-bank tributary, and 1.4 mi (2.3 km) northeast of town of Point Reyes Station.

DRAINAGE AREA.--81.7 mi<sup>2</sup> (211.6 km<sup>2</sup>).

PERIOD OF RECORD.--October 1974 to September 1975.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 7,210 ft<sup>3</sup>/s (204 m<sup>3</sup>/s) Mar. 21 (gage height, 16.39 ft or 4.996 m), from rating curve extended above 1,300 ft<sup>3</sup>/s (36.8 m<sup>3</sup>/s); minimum daily, 2.2 ft<sup>3</sup>/s (0.062 m<sup>3</sup>/s) Nov. 14-16.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by Nicasio Reservoir, capacity, 22,450 acre-ft (27.7 hm<sup>3</sup>), Kent Lake, capacity, 16,680 acre-ft (20.6 hm<sup>3</sup>), and Alpine Lake, capacity, 8,890 acre-ft (11.0 hm<sup>3</sup>); all of which divert water for domestic and industrial use in the county of Marin.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.4	2.6	9.8	135	49	108	17	4.3	3.8	2.7	3.3
2	3.4	3.2	2.7	8.3	152	70	87	15	4.3	3.7	2.7	3.3
3	3.4	2.9	11	7.3	94	60	78	13	4.5	3.7	3.0	3.2
4	3.4	2.7	30	6.8	176	50	79	12	4.5	3.7	3.0	3.1
5	3.4	2.6	9.0	6.5	87	45	102	12	5.4	3.7	3.2	2.8
6	3.3	2.6	6.1	20	67	45	114	11	5.4	3.7	3.2	2.7
7	3.3	3.2	5.0	32	323	772	85	11	5.6	3.6	3.2	3.0
8	3.3	5.1	4.3	49	716	561	92	10	5.6	3.6	3.2	3.0
9	3.3	3.5	3.9	38	665	357	103	9.6	5.5	3.6	3.4	3.0
10	3.3	2.8	3.7	28	389	403	85	9.3	5.7	3.7	3.4	3.1
11	3.3	2.6	11	21	158	326	74	9.0	5.0	3.7	3.5	3.2
12	3.3	2.4	13	16	726	247	64	8.7	4.9	3.5	3.6	3.1
13	3.3	2.3	13	14	1780	254	52	8.4	4.9	3.4	3.7	3.2
14	3.2	2.2	13	12	765	259	44	8.1	4.8	3.3	3.7	3.2
15	3.2	2.2	13	10	366	294	39	7.8	4.8	3.5	3.7	3.2
16	3.2	2.2	13	9.4	220	718	35	7.5	5.3	4.1	3.7	3.2
17	3.2	2.3	13	8.4	141	448	32	7.2	5.4	4.0	3.7	3.2
18	3.2	2.5	8.7	7.8	100	380	27	6.9	4.7	3.7	3.8	3.2
19	3.2	2.6	8.2	7.2	110	335	24	6.6	4.7	3.6	3.9	3.1
20	3.2	2.7	8.2	6.8	135	280	23	6.2	4.7	3.6	3.7	3.0
21	3.2	3.2	8.2	6.6	114	2060	21	6.0	4.7	3.5	3.6	3.0
22	3.1	5.0	8.1	6.3	91	3090	18	6.0	4.5	3.2	3.3	2.9
23	3.1	3.2	8.0	6.0	72	794	15	5.9	4.3	3.2	3.3	2.9
24	3.1	2.6	8.0	5.8	56	571	39	5.9	4.4	3.1	3.3	2.9
25	3.1	2.5	8.2	5.7	46	1240	62	5.7	4.5	3.0	3.3	2.8
26	3.1	2.5	8.0	5.6	37	745	46	5.3	4.4	2.9	3.3	2.8
27	3.3	2.5	78	5.4	34	468	35	5.2	4.3	2.8	3.3	2.8
28	3.6	2.5	130	5.1	41	321	27	5.2	4.0	2.8	3.3	2.8
29	4.7	2.5	39	5.9	---	226	22	4.7	3.9	2.9	3.2	2.8
30	4.0	2.6	19	5.4	---	168	20	4.3	3.9	2.9	3.2	2.8
31	3.5	---	13	46	---	134	---	4.3	---	2.7	3.3	---
TOTAL	103.6	85.1	519.9	422.1	7776	15770	1652	254.8	142.9	106.2	104.4	90.6
MEAN	3.34	2.84	16.8	13.6	278	509	55.1	8.22	4.76	3.43	3.37	3.02
MAX	4.7	5.1	130	49	1780	3090	114	17	5.7	4.1	3.9	3.3
MIN	3.1	2.2	2.6	5.1	34	45	15	4.3	3.9	2.7	2.7	2.7
AC=FT	205	169	1030	837	15420	31280	3280	505	283	211	207	180

WTR YR 1975 TOTAL 27027.6 MEAN 74.0 MAX 3090 MIN 2.2 AC=FT 93610

NOTE.--No gage-height record Oct. 1-31.

## WALKER CREEK BASIN

11460800 WALKER CREEK NEAR TOMALES, CALIF.

LOCATION.--Lat 38°12'35", long 122°51'35", in Nicasio Grant, Marin County, on left bank 1,300 ft (396 m) upstream from Chileno Creek, and 3.5 mi (5.6 km) southeast of Tomales.

DRAINAGE AREA.--37.1 mi<sup>2</sup> (96.1 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and concrete control. Datum of gage is 56.74 ft (17.294 m) above mean sea level.

AVERAGE DISCHARGE.--16 years, 48.3 ft<sup>3</sup>/s (1.368 m<sup>3</sup>/s), 34,990 acre-ft/yr (43.1 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 3,590 ft<sup>3</sup>/s (102 m<sup>3</sup>/s) Feb. 12 (gage height, 19.42 ft or 5.919 m), from rating curve extended above 1,400 ft<sup>3</sup>/s (39.6 m<sup>3</sup>/s); no flow Oct. 18, 19, Nov. 6, 13.  
Period of record: Maximum discharge, 5,420 ft<sup>3</sup>/s (153 m<sup>3</sup>/s) Jan. 5, 1966 (gage height, 22.23 ft or 6.776 m); maximum gage height, 22.91 ft (6.983 m) Jan. 16, 1973; no flow many days in each year.

REMARKS.--Records good. No regulation; small diversions above station for irrigation of about 50 acres (202,000 m<sup>2</sup>) and stock watering.

REVISIONS (WATER YEARS).--WRD Calif. 1969: 1967-68.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.01	.17	4.0	56	30	36	7.0	.58	.15	.02	.02
2	.02	.01	.27	3.0	145	33	32	6.7	.72	.12	.02	.02
3	.02	.01	1.8	2.2	151	28	31	7.0	.72	.12	.02	.02
4	.02	.01	4.7	2.9	427	26	30	6.6	.58	.12	.02	.02
5	.01	.01	.88	3.3	141	25	32	6.0	.52	.08	.02	.02
6	.01	0	.57	66	117	24	32	5.7	.58	.08	.02	.03
7	.01	.02	.44	40	454	341	28	5.5	1.1	.06	.02	.02
8	.01	.03	.36	93	751	172	29	5.3	2.8	.05	.01	.02
9	.01	.01	.31	35	866	111	28	5.0	2.8	.08	.01	.02
10	.01	.01	.29	24	483	194	25	4.8	2.8	.05	.01	.02
11	.01	.01	.29	17	204	128	23	4.2	2.8	.05	.01	.02
12	.01	.01	.30	14	1010	91	21	3.8	3.0	.05	.02	.02
13	.01	0	.32	11	1860	104	19	3.3	2.0	.05	.01	.02
14	.01	.01	.34	10	444	84	18	3.2	1.6	.03	.01	.02
15	.01	.01	.36	9.0	228	101	16	3.0	.80	.05	.01	.02
16	.01	.01	.35	7.7	140	284	15	2.6	.58	.05	.01	.02
17	.01	.01	.31	6.6	92	158	14	2.4	.47	.05	.02	.02
18	0	.03	.29	5.9	65	157	12	2.0	.38	.05	.02	.02
19	0	.02	.26	5.2	194	171	11	2.2	.34	.05	.02	.02
20	.01	.02	.25	4.5	167	128	10	1.7	.34	.05	.02	.02
21	.01	.05	.25	3.8	103	1050	9.7	1.5	.34	.05	.01	.02
22	.01	.14	.25	3.3	73	929	8.7	1.3	.34	.03	.01	.02
23	.01	.35	.24	2.8	59	352	9.0	1.3	.34	.03	.01	.02
24	.01	.31	.22	2.6	51	349	17	1.3	.34	.03	.01	.02
25	.01	.24	.23	2.4	42	791	19	1.2	.34	.02	.01	.03
26	.01	.22	.25	2.4	36	322	12	1.1	.30	.02	.01	.03
27	.02	.21	17	2.1	32	205	9.7	.99	.26	.02	.01	.03
28	.04	.19	56	1.9	30	128	8.8	.80	.22	.02	.01	.02
29	.04	.18	17	1.8	---	80	8.1	.65	.19	.02	.01	.03
30	.04	.17	11	1.6	---	56	7.3	.52	.19	.02	.01	.03
31	.04	---	7.0	5.0	---	43	---	.47	---	.02	.01	---
TOTAL	.46	2.31	122.30	394.0	8421	6695	571.3	99.13	28.37	1.69	.43	.66
MEAN	.015	.077	3.95	12.7	301	216	19.0	3.20	.95	.055	.014	.022
MAX	.04	.35	56	93	1860	1050	36	7.0	3.0	.15	.02	.03
MIN	0	0	.17	1.6	30	24	7.3	.47	.19	.02	.01	.02
AC-FT	.9	4.6	243	781	16700	13280	1130	197	56	3.4	.9	1.3
CAL YR 1974 TOTAL	20612.98			MEAN 56.5	MAX 2120	MIN 0	AC-FT 40890					
WTR YR 1975 TOTAL	16336.65			MEAN 44.8	MAX 1860	MIN 0	AC-FT 32400					

Peak discharge (base, 2,000 ft<sup>3</sup>/s).--Feb. 12 (2315) 3,590 ft<sup>3</sup>/s (19.42 ft); Mar. 21 (2030) 3,220 ft<sup>3</sup>/s (18.49 ft).

## SALMON CREEK BASIN

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11460920 SALMON CREEK AT BODEGA, CALIF.

LOCATION.--Lat 38°20'54", long 122°58'45", in Estero Americano Grant, Sonoma County, on left bank 100 ft (30 m) upstream from private road bridge, 0.3 mi (0.5 km) upstream from small left-bank tributary, and 0.4 mi (0.6 km) northwest of Bodega.

DRAINAGE AREA.--15.7 mi<sup>2</sup> (40.7 km<sup>2</sup>).

PERIOD OF RECORD.--July 1962 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 81.03 ft (24.698 m) above mean sea level.

AVERAGE DISCHARGE.--13 years, 24.7 ft<sup>3</sup>/s (0.700 m<sup>3</sup>/s), 17,900 acre-ft/yr (22.1 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 1,950 ft<sup>3</sup>/s (55.2 m<sup>3</sup>/s) Feb. 12 (gage height, 17.68 ft or 5.389 m); no flow on several days.

Period of record: Maximum discharge, 2,260 ft<sup>3</sup>/s (64.0 m<sup>3</sup>/s) Jan. 11, 1973 (gage height, 19.61 ft or 5.977 m, from inside high-water mark); no flow at times in each year.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	1.4	.73	2.9	22	15	18	6.6	1.6	.65	.26	0
2	.17	.81	4.0	2.4	63	17	17	6.8	1.7	.64	.18	.01
3	.15	.56	26	2.0	55	15	16	7.0	1.6	.61	.21	.12
4	.24	.57	17	3.9	71	12	16	6.6	1.5	.70	.22	.07
5	.21	.60	3.3	4.1	52	10	24	6.2	1.4	.74	.26	0
6	.18	.60	1.8	159	251	9.0	23	5.8	1.5	.62	.24	.01
7	.24	1.1	1.2	97	539	345	16	5.6	1.6	.58	.20	.07
8	.21	1.6	.97	125	499	185	21	5.3	1.3	.59	.13	.13
9	.25	.73	.78	35	241	80	20	5.1	1.1	.58	.10	.22
10	.41	.49	.73	25	103	150	18	4.8	1.2	.51	.05	.34
11	.30	.44	.72	16	82	105	15	4.5	1.2	.46	.13	.31
12	.19	.44	.78	11	1250	66	14	4.3	1.4	.41	.21	.29
13	.08	.38	.91	9.3	191	78	12	4.1	1.2	.41	.25	.26
14	.08	.38	.79	7.8	72	62	11	3.9	1.1	.37	.31	.27
15	.08	.49	.91	6.7	46	80	10	3.7	1.3	.52	.43	.27
16	.11	.49	.82	6.0	30	230	9.6	3.3	1.3	.71	.43	.15
17	.08	.73	.86	5.6	24	105	9.0	3.1	1.1	.54	.41	.16
18	.06	1.5	.84	5.2	176	107	8.3	2.9	.94	.41	.42	.19
19	.07	1.3	.80	4.9	75	130	7.8	3.0	.93	.52	.38	.25
20	.07	.73	.80	4.7	41	62	7.3	2.6	.98	.43	.29	.23
21	.24	.87	.80	4.5	29	940	6.8	2.4	1.0	.33	.21	.16
22	.28	1.2	.80	4.2	21	600	6.2	2.2	1.0	.29	.25	.15
23	.31	.94	.71	4.0	18	220	6.6	2.1	.96	.26	.15	.08
24	.35	.80	.64	3.9	15	230	16	2.0	1.2	.29	.08	.01
25	.45	1.4	.64	3.7	13	600	15	1.8	1.1	.26	.07	.01
26	.49	1.3	.72	3.8	14	150	12	1.6	.82	.17	.12	0
27	.76	.87	67	3.4	15	47	9.2	1.5	.78	.14	.31	0
28	5.3	.73	85	3.2	14	36	8.2	1.3	.75	.26	.30	.08
29	1.1	.73	12	3.2	---	24	7.4	1.2	.71	.31	.19	.19
30	.51	.71	5.8	3.0	---	21	7.0	1.2	.65	.29	.08	.27
31	.72	---	3.8	4.4	---	19	---	1.4	---	.26	0	---
TOTAL	13.86	24.89	242.65	534.8	4022	4750.0	387.4	113.9	34.92	13.86	6.87	4.30
MEAN	.45	.83	7.83	17.3	144	153	12.9	3.67	1.16	.45	.22	.14
MAX	5.3	1.6	85	159	1250	940	24	7.0	1.7	.74	.43	.34
MIN	.06	.38	.64	2.0	13	9.0	6.2	1.2	.65	.14	0	0
AC-FT	27	49	481	1060	7980	9420	768	226	69	27	14	8.5

CAL YR 1974 TOTAL 10344.08 MEAN 28.3 MAX 1110 MIN .05 AC-FT 20520  
WTR YR 1975 TOTAL 10149.45 MEAN 27.8 MAX 1250 MIN 0 AC-FT 20130

Peak discharge (base, 1,000 ft<sup>3</sup>/s).--Feb. 12 (0600) 1,950 ft<sup>3</sup>/s (17.68 ft); Mar. 21 (time unknown) 1,570 ft<sup>3</sup>/s (15.30 ft).

NOTE.--No gage-height record Feb. 27 to Mar. 27, Mar. 30 to May 15.

11460920 SALMON CREEK AT BODEGA, CALIF.--Continued

PERIOD OF RECORD.--Water temperatures: October 1964 to September 1975 (discontinued).  
Sediment records: Water years 1971-72 (partial-record station).

## EXTREMES.--Current year:

Water temperatures: Maximum, 25.0°C May 29; minimum, 0.5°C Jan. 30.

## Period of record:

Water temperatures: Maximum, 25.0°C May 29, 1975; minimum (1964-66, 1967 to current year), freezing point on many days during winter periods except in 1975.

REMARKS.--Recorder stopped Oct. 1-4; range in temperature, 9.5°C to 18.5°C.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	14.5	10.0	9.0	6.0	6.5	1.0	8.5	6.0	12.5	10.5
2	---	---	13.0	8.5	10.0	8.5	---	---	9.5	7.0	16.0	10.5
3	---	---	12.0	7.5	10.5	9.0	---	---	---	---	16.0	8.0
4	---	---	12.0	8.0	13.0	8.5	7.5	3.5	---	---	14.0	8.5
5	14.5	9.0	12.0	7.5	11.0	7.0	5.5	2.0	---	---	12.0	10.0
6	15.0	9.0	14.5	9.5	10.0	8.0	9.0	5.5	---	---	13.5	10.0
7	13.5	9.0	13.0	11.0	10.0	9.0	11.0	7.0	---	---	13.0	10.5
8	13.0	11.5	12.0	8.0	12.0	8.0	---	---	---	---	14.5	10.5
9	15.0	11.0	12.0	7.0	11.0	7.5	7.5	4.0	---	---	13.0	8.5
10	15.5	10.5	15.0	11.0	9.0	7.0	10.0	6.0	---	---	11.5	8.5
11	15.5	9.5	15.0	10.0	8.5	8.0	9.5	4.0	---	---	13.5	7.0
12	16.0	9.0	16.0	11.0	9.0	8.0	9.5	3.0	---	---	13.5	6.0
13	15.0	8.5	14.5	10.0	9.5	5.5	9.0	2.5	---	---	11.5	7.5
14	14.5	9.0	13.5	11.0	8.5	6.5	9.5	3.0	---	---	13.0	5.5
15	15.5	8.0	12.5	11.0	12.0	7.5	8.0	3.0	---	---	9.5	6.5
16	15.5	7.5	13.0	11.0	11.0	7.5	9.5	3.0	---	---	11.5	5.0
17	15.5	8.5	12.0	9.5	11.0	6.5	8.0	2.0	---	---	9.0	6.5
18	14.5	7.5	14.0	11.0	8.0	4.5	9.0	3.5	---	---	11.0	9.0
19	14.0	9.0	12.0	8.0	8.0	3.5	8.5	4.5	---	---	13.5	6.0
20	14.0	9.0	12.0	9.0	7.0	4.5	8.5	3.0	---	---	---	---
21	13.5	8.0	13.0	10.0	8.5	5.0	10.5	4.0	---	---	---	---
22	12.0	7.5	11.5	8.0	6.5	3.0	10.0	4.5	---	---	---	---
23	12.0	10.0	11.5	6.0	6.5	1.5	9.5	4.5	---	---	---	---
24	13.0	10.0	11.5	6.5	---	---	11.0	5.0	---	---	---	---
25	14.0	10.0	13.0	8.0	---	---	10.0	5.5	16.5	7.0	---	---
26	13.5	9.5	11.0	6.5	---	---	10.0	6.5	17.5	6.5	---	---
27	13.0	11.5	10.0	5.5	8.0	4.0	8.0	2.5	15.0	7.5	---	---
28	13.5	12.5	10.0	5.5	10.0	3.0	5.0	1.0	16.0	9.5	13.0	5.0
29	14.0	10.0	9.5	5.0	7.5	1.0	6.0	1.5	---	---	14.0	4.5
30	11.5	9.5	8.0	6.0	8.0	2.5	6.0	0.5	---	---	14.5	6.0
31	13.0	10.5	---	---	7.0	2.5	6.0	2.5	---	---	14.0	6.0
MONTH	16.0	7.5	16.0	5.0	13.0	1.0	11.0	0.5	---	---	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	5.5	16.5	11.0	16.5	15.5	17.5	13.5	19.0	13.5	---	---
2	13.0	5.0	17.0	9.5	18.0	14.5	18.0	13.5	19.5	13.5	16.5	10.5
3	13.0	8.0	15.5	11.5	21.5	14.0	18.5	15.0	19.0	13.5	17.0	10.5
4	12.0	6.5	15.0	7.0	19.0	16.0	17.5	15.5	18.0	15.0	16.5	10.5
5	8.0	5.5	16.5	7.5	18.0	17.0	19.5	14.5	18.5	15.0	---	---
6	11.0	4.0	17.5	8.5	18.0	16.0	20.0	16.5	17.0	13.5	15.0	12.0
7	9.5	6.0	18.5	10.0	18.0	15.0	20.0	17.5	19.0	12.5	15.0	12.0
8	11.0	5.0	14.5	11.5	20.5	14.5	19.5	16.5	18.5	12.5	12.5	12.0
9	13.0	4.0	15.0	11.0	21.0	16.0	20.0	16.5	17.0	12.5	14.0	12.5
10	13.0	5.5	16.5	12.0	19.5	17.5	20.5	16.5	16.5	13.0	14.0	12.5
11	15.0	5.5	19.5	11.5	19.0	16.5	20.5	16.5	15.0	14.0	15.5	13.0
12	16.5	6.5	21.5	12.0	19.0	15.5	20.0	15.5	15.5	13.5	15.5	12.5
13	12.5	9.0	16.5	13.0	19.0	16.5	18.5	15.5	16.0	14.0	14.5	12.5
14	14.0	8.0	15.5	12.5	18.5	17.0	18.5	16.0	15.0	13.5	16.0	13.5
15	13.0	6.0	17.5	11.0	17.0	16.0	19.0	16.5	15.5	13.5	16.0	12.5
16	14.0	5.0	19.5	11.5	18.5	15.0	21.0	17.0	16.0	14.0	15.5	11.5
17	14.0	5.5	21.0	12.5	17.0	15.5	20.5	18.0	15.5	14.0	15.0	11.5
18	14.0	6.0	17.0	14.0	17.0	13.5	19.5	17.5	17.0	15.0	14.5	12.5
19	17.5	9.0	17.0	13.0	17.0	15.0	20.5	17.0	17.5	14.5	15.0	12.0
20	18.0	8.5	17.5	11.5	17.0	15.0	20.0	17.5	16.5	13.5	15.5	10.5
21	17.5	11.0	18.0	11.5	18.0	15.0	20.5	17.5	17.0	14.5	15.5	11.5
22	14.0	9.5	19.0	13.0	17.5	15.0	21.5	16.5	18.0	14.5	15.5	11.0
23	14.5	10.5	21.0	14.0	17.0	15.5	20.5	17.0	18.0	14.5	16.5	10.0
24	13.5	10.5	21.5	14.5	17.5	15.5	20.5	16.5	18.5	15.5	17.0	10.0
25	14.5	7.5	21.5	14.5	17.5	13.5	20.5	15.0	17.5	15.0	15.0	10.0
26	15.5	6.0	19.5	15.0	18.0	14.5	20.0	15.0	15.0	14.5	---	---
27	17.0	7.5	21.5	15.0	18.0	14.5	18.5	16.0	17.0	14.5	---	---
28	18.5	8.0	24.0	16.0	19.0	14.5	18.5	16.0	18.5	15.5	13.5	10.5
29	18.0	8.5	25.0	18.5	18.5	15.0	19.0	16.0	17.5	12.5	14.0	10.0
30	18.5	10.0	21.0	18.0	18.0	15.0	18.5	14.0	16.5	12.5	13.0	10.0
31	---	---	19.0	16.5	---	---	19.0	13.5	---	---	---	---
MONTH	18.5	4.0	25.0	7.0	21.5	13.5	21.5	13.5	19.5	12.5	17.0	10.0

## 11461000 RUSSIAN RIVER NEAR UKIAH, CALIF.

LOCATION.--Lat 39°11'44", long 123°11'38", in Yokayo Rancho Grant, Mendocino County, on right bank 20 ft (6 m) downstream from bridge on Lake Mendocino Drive, 0.4 mi (0.6 km) upstream from East Fork, 0.6 mi (1.0 km) downstream from York Creek, and 3.2 mi (5.1 km) north of Ukiah.

DRAINAGE AREA.--100 mi<sup>2</sup> (259 km<sup>2</sup>).

PERIOD OF RECORD.--August 1911 to September 1913, October 1952 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 600 ft (183 m), from topographic map. Prior to October 1952, nonrecording gage at bridge 20 ft (6 m) upstream at different datum. Oct. 1, 1952, to Nov. 8, 1971, water-stage recorder at site 0.6 mi (1.0 km) upstream at different datums.

AVERAGE DISCHARGE.--25 years, 186 ft<sup>3</sup>/s (5.268 m<sup>3</sup>/s), 134,800 acre-ft/yr (166 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 10,200 ft<sup>3</sup>/s (289 m<sup>3</sup>/s) Mar. 21 (gage height, 18.82 ft or 5.736 m), from rating curve extended above 2,800 ft<sup>3</sup>/s (79.3 m<sup>3</sup>/s); no flow for several days.  
Period of record: Maximum discharge, 18,900 ft<sup>3</sup>/s (535 m<sup>3</sup>/s) Dec. 21, 1955 (gage height, 19.0 ft or 5.79 m, site and datum then in use); no flow at times in 1911, 1952-53, 1960-61, 1964-65, 1970-73, 1975.

REMARKS.--Records good. No regulation. Diversions above station for irrigation of about 1,000 acres (4.05 km<sup>2</sup>).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	3.8	5.1	29	1210	172	243	85	13	2.0	.05	.09
2	.06	3.3	18	23	2050	281	210	76	12	2.1	.05	.09
3	.06	3.0	222	20	1040	201	200	75	12	1.9	.05	.09
4	.05	2.8	224	38	1640	175	221	66	11	1.7	.05	.08
5	.06	2.6	61	225	1270	168	217	61	12	1.8	.05	.07
6	.05	3.1	31	2090	1230	186	194	57	11	1.7	.05	.04
7	.05	4.0	20	616	1530	1070	168	54	11	2.0	.05	.03
8	.04	4.5	16	1580	1640	1810	158	53	9.4	.81	.05	.02
9	.03	4.5	13	492	2580	789	139	50	8.4	.64	.05	0
10	.04	3.8	11	324	1910	687	127	46	8.2	.20	.05	.06
11	.04	3.5	12	204	898	498	119	45	7.3	.28	.05	.13
12	.04	3.5	18	147	4430	378	109	41	6.4	.33	.05	.10
13	.06	3.5	42	115	3440	326	100	38	6.6	.34	0	.07
14	.10	3.5	47	94	1030	304	96	33	6.3	.19	0	.07
15	.10	3.5	58	78	586	304	82	32	5.7	.11	0	.07
16	.10	3.4	37	66	401	816	77	33	5.6	.11	0	.05
17	.10	3.3	26	56	305	2440	67	30	5.0	.10	0	.05
18	.10	5.7	21	50	250	4030	63	28	4.7	.10	0	.03
19	.11	7.1	17	45	2560	2560	64	26	4.2	.10	0	.01
20	.11	5.1	15	40	1150	995	63	24	4.0	.10	0	.02
21	.14	6.3	14	36	540	3980	58	24	3.5	.10	0	.03
22	.12	7.8	18	33	411	2930	55	24	3.7	.10	0	.03
23	.11	7.8	14	30	329	1610	61	24	3.4	.10	0	.03
24	.11	6.3	11	29	276	2880	236	23	3.6	.10	0	.05
25	.11	7.4	10	28	236	4010	251	22	3.6	.10	0	.05
26	.13	8.2	9.8	27	204	1200	163	22	3.0	.10	0	.05
27	1.4	7.0	471	26	184	826	132	20	2.1	.10	0	.07
28	13	6.3	380	24	169	594	113	18	2.2	.10	.02	.07
29	10	5.5	101	23	---	387	98	15	2.2	.10	.05	.07
30	4.7	5.1	54	23	---	331	88	15	1.7	.10	.08	.07
31	3.5	---	37	56	---	284	---	14	---	.10	.08	---
TOTAL	34.69	145.2	2033.9	6667	33499	37222	3972	1174	192.8	17.71	.83	1.69
MEAN	1.12	4.84	65.6	215	1196	1201	132	37.9	6.43	.57	.027	.056
MAX	13	8.2	471	2090	4430	4030	251	85	13	2.1	.08	.13
MIN	.03	2.6	5.1	20	169	168	55	14	1.7	.10	0	0
AC-FT	69	288	4030	13220	66450	73830	7880	2330	382	35	1.6	3.4

CAL YR 1974 TOTAL 86221.84 MEAN 236 MAX 9800 MIN .03 AC-FT 171000  
WTR YR 1975 TOTAL 84960.82 MEAN 233 MAX 4430 MIN 0 AC-FT 168500

Peak discharge (base, 4,000 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-1	2230	13.45	4,150	3-17	2245	16.50	7,510
2-8	2130	13.44	4,140	3-21	1630	18.82	10,200
2-12	1445	18.36	9,690	3-25	0115	17.51	8,680
2-19	1545	15.02	5,780				

## RUSSIAN RIVER BASIN

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, on left bank 0.1 mi (0.2 km) downstream from Cold Creek, and 3.9 mi (6.3 km) east of Calpella.

DRAINAGE AREA.--92.2 mi<sup>2</sup> (238.8 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 787.87 ft (240.143 m) above mean sea level. Prior to May 28, 1957, at site 1.3 mi (2.1 km) downstream at different datum. May 28, 1957, to Apr. 5, 1966, at site 0.4 mi (0.6 km) downstream at same datum.

AVERAGE DISCHARGE.--34 years, 344 ft<sup>3</sup>/s (9.742 m<sup>3</sup>/s), 249,200 acre-ft/yr (307 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 8,050 ft<sup>3</sup>/s (228 m<sup>3</sup>/s) Mar. 21 (gage height, 17.49 ft or 5.331 m); minimum daily, 118 ft<sup>3</sup>/s (3.34 m<sup>3</sup>/s) June 25.

Period of record: Maximum discharge, 18,700 ft<sup>3</sup>/s (530 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 20.21 ft or 6.160 m, site then in use); minimum daily, 3.8 ft<sup>3</sup>/s (0.11 m<sup>3</sup>/s) Oct. 30, 31, 1959.

REMARKS.--Records good. Flow greatly affected by diversion from Eel River through Potter Valley powerhouse (see sta 11471000). Diversion for irrigation of about 8,000 acres (32.4 km<sup>2</sup>) above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	326	335	320	176	1700	371	476	371	272	121	129	126
2	323	335	342	167	1970	416	461	368	270	122	129	127
3	284	335	431	136	1050	374	461	371	281	124	129	281
4	295	332	385	287	1480	361	469	354	275	125	129	272
5	310	330	287	476	911	351	453	310	272	128	129	284
6	310	330	287	1140	981	395	442	335	275	135	131	284
7	264	330	307	516	1070	1650	431	354	256	136	131	284
8	272	330	316	420	1290	1310	424	351	138	143	131	287
9	290	330	310	361	1800	750	399	348	142	132	131	291
10	279	330	313	351	1370	695	392	348	253	127	131	300
11	313	330	320	341	760	558	392	348	257	130	131	318
12	320	330	329	335	3170	492	378	345	266	127	131	318
13	316	330	332	326	2060	476	374	310	262	135	131	320
14	316	330	332	324	894	450	371	217	245	138	131	324
15	313	330	329	322	643	508	351	176	256	143	131	323
16	304	330	316	316	537	855	364	281	270	138	131	323
17	301	330	287	323	476	1890	348	278	265	129	131	330
18	307	330	301	323	420	2520	345	270	256	129	134	279
19	323	328	290	322	1520	2010	364	284	156	127	132	287
20	320	328	284	319	715	987	361	287	119	131	139	315
21	322	328	298	319	496	3050	316	253	120	139	142	334
22	320	326	295	316	416	2210	354	304	124	130	134	330
23	326	326	290	313	371	1490	310	304	120	129	134	325
24	313	326	281	319	345	2040	465	290	119	129	134	311
25	322	326	181	313	323	2630	406	298	118	129	136	286
26	320	332	174	313	301	1140	378	304	120	129	127	285
27	329	326	450	304	290	828	374	295	120	129	119	303
28	345	322	395	304	307	671	371	261	120	129	127	297
29	340	320	329	298	---	589	368	278	120	168	131	285
30	340	322	304	298	---	541	371	278	121	142	128	276
31	340	---	203	295	---	465	---	278	---	129	123	---
TOTAL	9703	9867	9618	10673	27666	33073	11769	9449	5988	4102	4057	8705
MEAN	313	329	310	344	988	1067	392	305	200	132	131	290
MAX	345	335	450	1140	3170	3050	476	371	281	168	142	334
MIN	264	320	174	136	290	351	310	176	118	121	119	126
AC-FT	19250	19570	19080	21170	54880	65600	23340	18740	11880	8140	8050	17270
CAL YR 1974 TOTAL	149167				7460	48		295900				
WTR YR 1975 TOTAL	144670				3170	118		287000				

Peak discharge (base, 3,300 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-1	2300	13.37	4,230	3-21	1700	17.49	8,050
2-12	1500	17.43	7,980	3-25	0145	15.66	6,250
3-17	2330	14.26	4,990				



## 11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1951-52 (partial-record station), October 1952 to September 1958, March 1973 to current year.  
 Water temperatures: March 1964 to current year  
 Sediment records: March to September 1964, October 1966 to September 1968.  
 Turbidity: Water years 1964-71 (partial-record station).

## EXTREMES.--Current year:

Water temperatures: Maximum, 23.5°C on several days during July; minimum, 3.0°C Jan. 31, Feb. 1.

## Period of record:

Water temperatures: Maximum (1965-66, 1967 to current year), 29.0°C Aug. 11, 1971, July 1, 1972; minimum (1965-67, 1968-70, 1971 to current year), 2.0°C Dec. 12, 1972.

REMARKS.--The letter "A" following a date indicates chemical-quality data furnished by Corps of Engineers.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)
OCT.						
04...A	0940	305	189	7.8	18.0	4
10...	1115	300	177	6.8	17.0	--
18...A	0940	301	185	7.3	16.0	5
NOV.						
01...A	0945	345	198	7.6	--	8
04...	1230	332	188	6.8	12.5	--
15...A	0940	335	206	7.4	12.0	5
29...A	0930	325	202	8.0	8.0	15
DEC.						
10...	1130	315	228	7.9	7.5	--
13...A	0940	336	224	7.8	8.0	55
27...A	0950	217	235	7.8	7.0	70
JAN.						
10...A	1000	351	176	--	7.0	60
20...	1140	324	176	7.7	6.0	--
24...A	1015	319	186	7.8	7.0	80
FEB.						
07...A	0935	1240	130	7.9	8.0	65
20...	1315	694	139	7.7	8.0	--
21...A	0950	500	144	7.9	5.0	60
MAR.						
06...A	0920	395	149	8.0	9.0	50
17...	1330	1260	160	7.4	7.5	--
21...A	0935	959	150	7.9	8.0	60
APR.						
15...	1635	374	--	7.6	9.0	--
MAY						
05...	1325	352	135	7.8	12.0	--
JUNE						
10...	1110	260	124	7.9	17.5	--
JULY						
11...A	1030	134	154	7.6	18.0	6
15...	1020	146	141	7.7	19.0	--
25...A	0950	129	159	7.9	19.0	4
AUG.						
08...A	1115	131	146	7.9	19.0	5
22...A	0950	134	154	7.9	19.0	3
26...	1020	122	243	7.8	18.5	--
SEP.						
05...A	1005	284	146	7.8	18.0	5
19...A	0930	338	160	7.9	--	3
24...	1020	303	148	7.5	19.0	--

## RUSSIAN RIVER BASIN

11461500 EAST FORK RUSSIAN RIVER NEAR CALPELLA, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDE KJEL, NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL, NITRO- GEN (N) (MG/L)
OCT.											
10...	1115	300	.01	.00	.05	.05	.15	.15	.20	.00	.20
NOV.											
04...	1230	332	.03	.03	.02	.03	.17	.13	.19	.03	.16
DEC.											
10...	1130	315	.09	.08	.13	.12	.21	.08	.34	.14	.20
JAN.											
20...	1140	324	.15	.16	.08	.04	.56	.29	.64	.31	.33
FEB.											
20...	1315	694	.18	.19	.04	.01	.17	.20	.21	.00	.21
MAR.											
17...	1330	1260	.14	.11	.05	.03	.31	.22	.36	.11	.25
APR.											
15...	1635	374	.08	.08	.06	.01	.05	.03	.11	.07	.04
MAY											
05...	1325	352	.05	.03	.00	.00	.09	.07	.09	.02	.07
JUNE											
10...	1110	260	.04	.04	.00	.00	.04	.02	.04	.02	.02
JULY											
15...	1020	146	.08	.07	.00	.00	.25	.22	.25	.03	.22
AUG.											
26...	1020	122	.07	.06	.00	.00	.65	.32	.65	.33	.32
SEP.											
24...	1020	303	.04	.03	.00	.00	.21	.12	.21	.09	.12

DATE	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDE ORGANIC CARBON (C) (MG/L)
OCT.											
10...	.21	.02	.03	.01	177	6.8	17.0	9.6	99	2.7	--
NOV.											
04...	.22	.03	.03	.01	188	6.8	12.5	--	--	1.7	.4
DEC.											
10...	.43	.14	.00	.00	228	7.9	7.5	--	--	3.2	.9
JAN.											
20...	.79	.08	.03	.01	176	7.7	6.0	--	--	6.4	.6
FEB.											
20...	.39	.08	.06	.02	139	7.7	8.0	--	--	4.7	.7
MAR.											
17...	.50	.10	--	.12	160	7.4	7.5	--	--	15	1.4
APR.											
15...	.19	.04	.12	.04	--	7.6	9.0	--	--	1.2	.2
MAY											
05...	.14	.05	.06	.02	135	7.8	12.0	--	--	.7	--
JUNE											
10...	.08	.02	.06	.02	124	7.9	17.5	9.6	101	5.9	.2
JULY											
15...	.33	.04	.03	.01	141	7.7	19.0	--	--	4.1	.3
AUG.											
26...	.72	.03	.03	.01	243	7.8	18.5	--	--	2.0	.2
SEP.											
24...	.25	.04	.00	.00	148	7.5	19.0	--	--	1.5	.2

11461500 EAST FORK RUSSIAN RIVER NEAR CALEPLLA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.5	17.0	14.5	13.5	---	---	5.0	4.5	4.0	3.0	8.5	8.0
2	19.5	18.0	14.0	13.0	---	---	4.5	4.5	5.5	3.5	9.0	8.0
3	19.5	18.0	13.5	13.0	---	---	4.5	4.0	6.0	5.0	9.0	7.0
4	19.0	17.5	---	---	---	---	5.5	4.5	6.5	5.0	9.0	7.5
5	18.5	17.5	---	---	---	---	5.5	5.0	6.5	6.0	9.5	8.5
6	18.0	16.5	---	---	---	---	9.0	5.5	7.0	6.0	9.5	8.5
7	17.5	16.5	---	---	---	---	9.0	8.0	8.0	7.0	11.0	9.5
8	17.0	16.5	---	---	---	---	9.0	8.0	10.0	8.0	10.5	9.5
9	18.0	16.5	---	---	---	---	8.0	6.0	10.0	8.0	10.5	8.5
10	18.0	16.5	---	---	---	---	7.0	6.0	9.0	7.5	10.5	8.5
11	17.5	16.0	---	---	---	---	7.0	6.0	9.0	8.0	11.5	8.5
12	17.5	16.0	---	---	---	---	6.5	5.5	9.0	8.0	11.0	8.5
13	17.5	16.0	---	---	---	---	6.0	5.5	10.0	9.0	10.0	8.5
14	17.5	15.5	---	---	---	---	6.0	5.0	9.0	6.0	10.5	7.5
15	17.0	15.5	---	---	---	---	5.5	5.0	7.0	5.0	9.5	7.0
16	17.0	15.5	---	---	---	---	6.0	5.0	7.0	5.5	9.5	6.5
17	17.0	15.5	---	---	---	---	6.0	5.0	6.5	4.5	9.5	7.5
18	16.5	15.5	---	---	---	---	6.0	5.5	6.5	5.0	11.5	9.5
19	16.5	15.5	---	---	7.0	6.5	6.0	5.5	8.5	6.5	11.5	9.0
20	16.5	15.0	---	---	8.0	7.0	7.0	5.5	8.5	6.5	11.0	8.0
21	16.0	14.5	---	---	8.0	7.5	7.5	6.5	8.0	5.0	9.5	8.0
22	15.5	14.5	---	---	7.5	6.5	7.5	6.5	8.0	5.5	10.0	8.0
23	16.0	15.0	---	---	6.5	6.0	8.0	7.0	8.0	6.0	10.5	9.0
24	15.5	15.0	---	---	6.0	5.0	8.0	7.0	8.0	6.5	11.5	10.0
25	15.0	14.5	---	---	6.0	5.0	7.5	6.5	8.5	7.0	12.0	10.0
26	15.5	14.5	---	---	6.0	5.0	7.5	6.0	8.0	6.5	11.0	8.0
27	15.5	15.0	---	---	7.0	6.0	6.0	5.0	9.0	7.0	11.5	8.0
28	15.0	14.0	---	---	7.0	6.0	5.5	4.5	9.0	7.5	11.0	7.0
29	14.5	13.5	---	---	6.0	5.0	5.5	4.5	---	---	12.0	7.5
30	14.5	14.0	---	---	5.5	5.0	5.0	4.0	---	---	---	---
31	15.0	14.0	---	---	5.5	5.0	5.0	3.0	---	---	---	---
MONTH	19.5	13.5	---	---	---	---	9.0	3.0	10.0	3.0	12.0	6.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	13.5	10.5	17.5	16.0	19.5	14.5	22.0	16.5	20.0	15.5
2	---	---	13.5	12.0	17.0	16.0	19.5	14.5	22.5	17.0	20.0	16.0
3	---	---	13.0	11.5	16.0	15.5	20.0	15.5	22.5	17.5	18.5	17.0
4	---	---	12.5	10.0	17.5	16.0	19.5	16.5	22.5	17.5	18.5	16.5
5	---	---	15.5	10.5	18.5	17.0	20.0	15.5	22.5	17.5	19.0	17.5
6	---	---	13.5	11.0	18.0	17.0	21.0	16.5	21.5	17.5	19.0	17.5
7	---	---	14.0	11.5	18.5	16.5	21.5	17.0	21.5	16.0	19.0	17.5
8	---	---	14.5	12.0	20.5	16.0	22.0	17.5	22.0	17.0	18.5	17.5
9	---	---	14.5	13.0	20.5	16.5	22.5	18.0	22.5	17.5	18.0	16.5
10	---	---	14.0	12.5	18.5	16.5	21.5	18.0	22.5	18.5	17.0	16.5
11	---	---	14.0	12.0	18.5	16.5	22.5	18.0	23.0	18.5	19.0	17.0
12	---	---	14.5	12.5	18.5	16.5	22.5	18.0	20.0	18.5	20.0	18.0
13	---	---	16.0	13.5	19.0	17.0	22.5	18.5	23.0	18.5	20.0	18.0
14	---	---	16.5	13.5	19.0	17.0	22.5	18.5	22.5	18.0	19.5	18.0
15	---	---	17.0	14.0	19.0	17.5	20.0	19.0	22.5	18.0	19.5	18.0
16	9.0	8.0	16.0	13.0	19.0	17.0	21.0	18.0	22.0	18.0	19.5	17.5
17	11.0	7.5	16.5	14.0	17.5	16.0	22.5	18.0	20.0	18.0	19.0	17.5
18	11.0	9.0	17.0	15.0	17.0	15.0	22.5	18.5	20.0	17.0	20.0	18.0
19	12.0	9.5	16.5	15.0	18.5	15.5	22.5	18.0	20.0	16.5	20.0	18.0
20	12.5	10.5	15.0	13.0	20.0	15.5	23.0	18.5	21.0	17.0	20.0	18.0
21	13.5	10.5	17.0	13.0	21.0	15.5	23.0	19.0	22.0	17.5	20.0	19.0
22	11.5	10.5	16.0	14.0	16.0	15.5	23.0	19.0	22.0	18.0	20.5	19.0
23	10.5	10.5	16.5	15.5	20.0	16.0	23.5	18.5	22.0	17.5	20.0	19.0
24	10.5	10.0	17.0	15.0	18.5	15.0	23.5	18.5	22.5	18.5	20.5	18.5
25	11.5	9.5	16.5	15.0	18.5	13.5	23.5	19.0	23.0	19.0	21.0	19.0
26	12.0	9.0	16.5	15.0	20.0	14.0	23.5	19.0	22.0	18.0	20.5	19.0
27	12.5	10.0	17.0	15.0	20.0	14.5	23.5	19.0	20.5	18.5	19.5	18.5
28	12.5	9.5	18.0	15.5	20.0	15.0	23.5	19.0	20.5	17.5	19.5	18.0
29	12.5	9.5	17.5	16.0	20.0	15.0	22.5	19.0	20.0	16.0	20.0	18.0
30	13.0	10.5	18.0	16.0	20.0	15.0	21.0	17.0	20.0	16.0	20.0	18.5
31	---	---	17.5	16.5	---	---	22.0	16.5	19.5	15.5	---	---
MONTH	---	---	18.0	10.0	21.0	13.5	23.5	14.5	23.0	15.5	21.0	15.5

## RUSSIAN RIVER BASIN

11461800 LAKE MENDOCINO NEAR UKIAH, CALIF.

LOCATION.--Lat 39°11'53", long 123°10'50", in Yokayo Rancho Grant, Mendocino County, in intake tower 30 ft (9 m) upstream from Coyote Dam on East Fork Russian River, and 3.6 mi (5.8 km) northeast of Ukiah.

DRAINAGE AREA.--105 mi<sup>2</sup> (272 km<sup>2</sup>).

PERIOD OF RECORD.--October 1965 to current year. Records prior to October 1965 in files of Corps of Engineers.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 107,100 acre-ft (132 hm<sup>3</sup>) Mar. 25 (elevation, 756.78 ft or 230.667 m); minimum, 46,600 acre-ft (57.5 hm<sup>3</sup>) Oct. 26, 27 (elevation, 721.12 ft or 219.797 m).  
Period of record: Maximum contents, 114,800 acre-ft (142 hm<sup>3</sup>) Jan. 24, 1970 (elevation, 760.86 ft or 231.910 m); minimum, 41,600 acre-ft (51.3 hm<sup>3</sup>) Nov. 7, 1973 (elevation, 717.62 ft or 218.731 m).

REMARKS.--Reservoir is formed by earthfill dam; storage began in November 1958. Capacity, 122,900 acre-ft (152 hm<sup>3</sup>) between elevations 637.0 ft (194.16 m), invert of outlet tunnel and 764.8 ft (233.11 m), spillway crest, above mean sea level. Storage affected by diversions from Eel River through Potter Valley powerhouse (see sta 11471000). Water is released down East Fork Russian River for irrigation and recreation use. Records given herein represent total contents.

## CAPACITY TABLE (ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET)

637	135	660	2,110	685	10,900	720	45,000
640	250	665	3,190	690	13,700	730	60,100
645	535	670	4,590	695	17,100	740	76,900
650	900	675	6,280	700	21,100	750	94,600
655	1,380	680	8,430	710	31,620	765	122,900

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51100	46700	52300	63000	76400	72800	83000	91100	90000	85100	76900	65900
2	50800	46600	52700	63000	80200	72800	83900	90600	90000	84800	76600	65600
3	50500	46600	53300	63000	81200	72800	84800	90100	90000	84500	76200	65500
4	50300	46700	53900	63000	80800	72800	85800	89700	90000	84200	75800	65400
5	50100	46900	54300	63100	78600	72800	86600	89200	90000	84000	75400	65300
6	49900	47200	54700	65200	76500	73000	87400	88700	89900	83700	74900	65100
7	49700	47400	55100	66300	75200	76400	88100	88200	89800	83500	74600	65000
8	49500	47500	55500	68400	76500	78000	88600	87600	89400	83200	74100	64900
9	49300	47700	55900	69300	80100	78500	89100	86900	89100	83000	73600	64800
10	49000	47900	56200	69900	80400	77100	89500	86600	89000	82700	73200	64700
11	48900	48100	56500	70500	77500	73900	89800	86900	89000	82400	72700	64600
12	48700	48200	56800	71100	83700	72700	90000	87200	89000	82000	72300	64500
13	48600	48400	57100	71700	86800	72700	90200	87500	89100	81700	72000	64400
14	48400	48500	57500	72200	84800	72700	90000	87500	89000	81300	71600	64300
15	48300	48800	57800	72600	81800	73000	89900	87500	89000	81100	71200	64200
16	48100	48900	58100	73000	78900	73900	90000	87700	89000	80900	70900	64000
17	47900	49200	58400	73500	75800	78000	90200	87900	89000	80600	70600	63900
18	47700	49400	58800	74000	73300	83500	90400	88100	88900	80400	70200	63800
19	47600	49600	59100	74500	76000	87900	90500	88200	88700	80200	69900	63600
20	47400	49800	59300	74800	75400	88400	90700	88400	88500	80000	69600	63500
21	47200	49900	59600	74700	74400	94400	90700	88500	88200	79800	69300	63400
22	47100	50100	59800	74100	74000	99400	90900	88700	87900	79600	69000	63300
23	46900	50300	60100	73600	73600	99500	91000	89000	87600	79500	68700	63200
24	46800	50500	60300	73100	73400	102000	91200	89200	87300	79200	68400	63200
25	46700	50700	60300	72500	73200	107000	91400	89400	87000	78900	68100	63100
26	46600	51000	60300	72000	73000	104000	91400	89700	86700	78600	67700	62900
27	46700	51300	61100	71900	72900	97900	91500	89800	86300	78300	67400	62800
28	46800	51500	61900	71900	72800	92400	91500	90000	86000	78000	67100	62800
29	46800	51800	62400	71900	---	89200	91400	90100	85800	77800	66800	62700
30	46700	52000	62800	72000	---	84200	91300	90100	85400	77500	66500	62500
31	46700	---	62900	72400	---	82500	---	90100	---	77200	66200	---
MAX	51100	52000	62900	74800	86800	107000	91500	91100	90000	85100	76900	65900
MIN	46600	46600	52300	63000	72800	72700	83000	86600	85400	77200	66200	62500
(a)	721.18	724.83	731.80	737.57	737.77	743.36	748.23	747.59	745.00	740.20	733.82	731.55
(b)	-4,600	+5,300	+10,900	+9,500	+400	+9,700	+8,800	-1,200	-4,700	-8,200	-11,000	-3,700

CAL YR 1974 b +1,600  
WTR YR 1975 b +11,200

a Elevation, in feet, at end of month.  
b Change in contents, in acre-feet.

## 11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CALIF.

LOCATION.--Lat 39°11'51", long 123°11'11", in Yokayo Rancho Grant, Mendocino County, on right bank of outlet channel, 500 ft (152 m) downstream from Coyote Dam, 1,300 ft (396 m) upstream from mouth, and 3.2 mi (5.1 km) northeast of Ukiah.

DRAINAGE AREA.--105 mi<sup>2</sup> (272 km<sup>2</sup>).

PERIOD OF RECORD.--August 1911 to September 1913, October 1951 to June 1956, October 1957 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 614.41 ft (187.272 m) above mean sea level. Prior to October 1951, nonrecording gage at site 0.5 mi (0.8 km) upstream at different datum. October 1951 to June 1956, water-stage recorder at site 1.0 mi (1.6 km) upstream at different datum.

AVERAGE DISCHARGE (unadjusted).--7 years (1911-13, 1951-55, 1957-58), 356 ft<sup>3</sup>/s (10.08 m<sup>3</sup>/s), 257,900 acre-ft/yr (318 hm<sup>3</sup>/yr); 16 years (1959-75), 362 ft<sup>3</sup>/s (10.25 m<sup>3</sup>/s), 262,300 acre-ft/yr (323 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 4,340 ft<sup>3</sup>/s (123 m<sup>3</sup>/s) Mar. 27 (gage height, 7.15 ft or 2.179 m); minimum daily, 26 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s) Feb. 2.

Period of record (prior to regulation by Lake Mendocino): Maximum discharge, 13,300 ft<sup>3</sup>/s (377 m<sup>3</sup>/s) Dec. 21, 1955 (gage height, 16.86 ft or 5.139 m, site and datum then in use), from rating curve extended above 1,700 ft<sup>3</sup>/s (48.1 m<sup>3</sup>/s) on basis of maximum flow at station upstream which was defined to 8,600 ft<sup>3</sup>/s (244 m<sup>3</sup>/s); no flow Aug. 13-15, 1913.

1957 to current year: Maximum discharge, 7,350 ft<sup>3</sup>/s (208 m<sup>3</sup>/s) Jan. 24, 1970 (gage height, 10.84 ft or 3.304 m); minimum daily, 0.02 ft<sup>3</sup>/s (0.001 m<sup>3</sup>/s) Apr. 17, 1973.

REMARKS.--Records good. Flow affected by diversion from Bel River through Potter Valley powerhouse (see sta 11471000) and since November 1958 by storage in Lake Mendocino 500 ft (152 m) upstream (see sta 11461800). Diversions above station for irrigation of about 8,000 acres (32.4 km<sup>2</sup>).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	424	330	166	146	173	391	248	496	290	255	302	274
2	424	334	166	146	26	391	36	597	290	255	314	274
3	403	334	167	168	639	391	36	597	290	255	314	310
4	391	248	83	180	1880	391	36	583	294	255	314	339
5	396	193	60	181	2350	370	36	576	294	255	314	339
6	396	212	77	93	2330	357	35	583	295	255	314	339
7	396	223	79	34	1930	302	125	583	310	255	314	339
8	392	223	75	35	1140	478	181	703	315	255	334	339
9	391	223	129	35	36	478	181	768	300	250	348	339
10	391	220	160	55	1190	1540	181	562	271	250	352	339
11	390	220	160	67	2500	2320	244	166	263	250	352	334
12	393	225	161	67	1010	1190	274	169	263	265	330	334
13	389	230	163	67	542	516	274	172	263	275	318	334
14	386	210	166	94	1920	465	496	172	263	270	318	334
15	386	200	166	109	2390	442	442	172	263	265	318	330
16	386	200	146	109	2370	442	306	172	267	263	318	330
17	390	200	135	112	2360	318	263	178	267	241	318	330
18	389	200	136	112	1900	35	234	178	260	227	318	330
19	387	200	136	107	569	36	270	181	260	227	318	330
20	386	200	155	118	1170	909	270	181	260	227	322	330
21	386	197	169	456	1120	845	267	184	260	230	322	326
22	391	197	171	638	656	131	267	184	260	234	322	326
23	391	197	172	636	649	1560	306	187	260	234	306	326
24	371	197	172	628	503	1160	330	187	260	255	278	330
25	343	183	172	619	424	516	326	187	260	270	274	330
26	330	170	172	611	402	3030	326	190	265	270	274	330
27	330	169	121	413	391	3930	326	190	255	270	274	330
28	334	169	28	296	391	3650	361	210	255	274	274	330
29	331	169	29	272	---	2850	391	223	255	278	278	326
30	330	169	72	221	---	2820	391	267	255	278	278	326
31	330	---	127	200	---	1510	---	290	---	282	278	---
TOTAL	11753	6442	4091	7025	32961	33764	7459	10088	8163	7925	9608	9827
MEAN	379	215	132	227	1177	1089	249	325	272	256	310	328
MAX	424	334	172	638	2500	3930	496	768	315	282	352	339
MIN	330	169	28	34	26	35	35	166	255	227	274	274
AC=FT	23310	12780	8110	13930	65380	66970	14790	20010	16190	15720	19060	19490
CAL YR 1974 TOTAL	154540		MEAN 423	MAX 6000	MIN 28	AC=FT 306500						
WTR YR 1975 TOTAL	149106		MEAN 409	MAX 3930	MIN 26	AC=FT 295800						

## RUSSIAN RIVER BASIN

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: December 1952 to March 1955, March 1973 to current year.

Water temperatures: December 1952 to March 1955, October 1964 to September 1968, October 1972 to current year.

Sediment records: December 1952 to March 1955, January 1964 to September 1968.

EXTREMES.--Period of record:

Water temperatures (1972-74): Maximum, 22.5°C on several days in 1973; minimum, 7.0°C Jan. 14, 1973.

REMARKS.--The letter "A" following a date indicates chemical-quality data furnished by Corps of Engineers. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DFG C)	TURBIDITY (JTU)
OCT.						
04...A	1005	391	172	7.6	20.0	3
10...	1330	391	161	7.5	20.5	--
18...A	1000	389	169	7.5	19.0	4
NOV.						
01...A	1010	330	169	7.6	16.0	4
04...	1445	202	161	7.1	16.0	--
15...A	1000	200	154	7.6	12.0	4
29...A	1000	169	195	7.2	11.0	5
DEC.						
10...	1400	157	185	7.7	11.0	--
13...A	1000	163	186	7.7	11.0	35
27...A	1015	178	182	7.8	9.0	30
JAN.						
10...A	1030	69	126	--	8.0	45
20...	1420	158	172	7.7	7.5	--
24...A	1030	628	180	7.8	8.0	40
FEB.						
07...A	1000	1310	163	8.0	8.0	55
20...	1635	1880	145	7.2	8.0	--
21...A	1005	634	140	8.0	8.0	80
MAR.						
06...A	0940	361	137	8.0	8.0	70
17...	1630	448	138	7.4	9.0	--
21...A	1000	1550	144	7.9	9.0	55
APR.						
15...	1330	351	--	7.7	10.0	--
MAY						
05...	1645	582	130	7.2	10.0	--
JUNE						
10...	1535	293	185	7.5	11.0	--
JULY						
11...A	1045	240	138	--	12.0	2
15...	1500	261	136	7.6	12.0	--
25...A	1015	270	138	7.6	12.0	2
AUG.						
08...A	1145	352	144	--	14.0	2
22...A	1010	322	146	7.5	15.0	1
26...	1700	274	264	6.8	15.0	--
SEP.						
05...A	1030	339	146	7.4	17.0	3
19...A	1000	330	154	7.4	18.0	1
24...	1400	322	142	7.1	20.0	--

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDE KJEL. NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)
OCT.												
10...	1330	391	.00	.00	.06	.06	.19	.19	.25	.00	.25	.25
NOV.												
04...	1445	202	--	.01	.01	.03	.22	.03	.23	.17	.06	--
DEC.												
10...	1400	157	.06	.07	.08	.08	.05	.06	.13	.00	.14	.19
JAN.												
20...	1420	158	.12	.13	.04	.02	.36	.40	.40	.00	.42	.52
FEB.												
20...	1635	1880	.14	.10	.02	.01	.25	.18	.27	.08	.19	.41
MAR.												
17...	1630	448	.16	.17	.04	.03	.23	.12	.27	.12	.15	.43
APR.												
15...	1330	351	.14	.14	.05	.03	.13	.06	.18	.09	.09	.32
MAY												
05...	1645	582	.15	.12	.00	.00	.13	.09	.13	.04	.09	.28
JUNE												
10...	1535	293	.13	.12	.00	.00	.06	.02	.06	.04	.02	.19
JULY												
15...	1500	261	.16	.16	.00	.00	.34	.35	.34	.00	.35	.50
AUG.												
26...	1700	274	.00	.00	.00	.00	.52	.28	.52	.24	.28	.52
SEP.												
24...	1400	322	.01	.01	.00	.00	.19	.18	.19	.01	.18	.20

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)	DIS- SOLVED ORTHO PHOS- PHORUS (P) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDE ORGANIC CARBON (C) (MG/L)
OCT.											
10...	.01	--	.03	.01	161	7.5	20.5	8.8	98	--	--
NOV.											
04...	.02	--	.03	.01	161	7.1	16.0	--	--	1.8	.2
DEC.											
10...	.11	--	.00	.00	185	7.7	11.0	--	--	4.1	.5
JAN.											
20...	.08	--	.06	.02	172	7.7	7.5	--	--	4.4	.4
FEB.											
20...	.08	--	.06	.02	145	7.2	8.0	--	--	5.5	1.4
MAR.											
17...	.15	.13	.37	.12	138	7.4	9.0	--	--	6.9	.6
APR.											
15...	.09	--	.12	.04	--	7.7	10.0	--	--	7.5	.5
MAY											
05...	.08	--	.09	.03	130	7.2	10.0	--	--	2.5	.4
JUNE											
10...	.04	--	.06	.02	185	7.5	11.0	10.6	96	3.1	.2
JULY											
15...	.06	--	.06	.02	136	7.6	12.0	--	--	2.2	.2
AUG.											
26...	.02	--	.03	.01	264	6.8	15.0	--	--	2.9	.2
SEP.											
24...	.03	--	.00	.00	142	7.1	20.0	8.5	93	1.8	.4

## RUSSIAN RIVER BASIN

11462000 EAST FORK RUSSIAN RIVER NEAR UKIAH, CALIF.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

[illegible]

DAY	APR			MAY			JUN			JUL			AUG			SEP		
	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN	MAX	DAILY	MIN
1	--	--	--	10.0	--	8.5	11.0	--	10.5	12.0	--	11.5	--	--	--	--	--	--
2	--	--	--	10.5	--	8.5	11.5	--	10.5	12.0	--	11.0	--	--	--	--	--	--
3	--	--	--	10.5	--	8.0	11.5	--	10.5	12.0	--	11.0	--	--	--	--	--	--
4	--	--	--	10.0	--	8.0	11.5	--	10.0	12.0	--	11.5	--	--	--	--	--	--
5	--	--	--	10.5	--	8.0	11.0	--	10.5	12.0	--	11.5	--	--	--	--	--	--
6	--	--	--	10.5	--	8.5	11.5	--	10.5	12.5	--	11.5	--	--	--	--	--	--
7	--	--	--	10.5	--	8.5	11.0	--	10.0	12.0	--	11.5	--	--	--	--	--	--
8	--	--	--	10.5	--	8.5	11.0	--	10.5	12.5	--	11.5	--	--	--	--	--	--
9	--	--	--	10.5	--	8.5	11.0	--	10.0	12.5	--	11.5	--	--	--	--	--	--
10	--	--	--	10.0	--	8.5	11.5	--	10.5	12.0	--	11.5	--	--	--	--	--	--
11	--	--	--	10.0	--	8.0	11.5	--	10.5	12.5	--	12.0	--	--	--	--	--	--
12	--	--	--	10.0	--	8.5	11.5	--	10.5	12.5	--	11.5	--	--	--	--	--	--
13	--	--	--	9.5	--	8.0	11.5	--	10.5	12.5	--	11.5	--	--	--	--	--	--
14	--	--	--	--	--	--	11.5	--	10.0	12.5	--	11.5	--	--	--	--	--	--
15	10.0	--	9.5	--	--	--	11.5	--	10.0	12.5	--	11.5	--	--	--	--	--	--
16	10.0	--	9.5	--	--	--	11.5	--	10.5	--	--	--	--	--	--	--	--	--
17	10.0	--	8.5	--	--	--	11.5	--	10.5	--	--	--	--	--	--	--	--	--
18	10.0	--	8.5	--	--	--	11.5	--	10.5	--	--	--	--	--	--	--	--	--
19	10.0	--	8.5	11.0	--	10.0	11.5	--	10.5	--	--	--	--	--	--	--	--	--
20	10.0	--	8.5	11.0	--	10.5	11.5	--	10.0	--	--	--	--	--	--	--	--	--
21	10.0	--	8.5	11.0	--	10.0	11.5	--	10.5	--	--	--	--	--	--	--	--	--
22	10.0	--	8.0	11.0	--	9.5	11.5	--	11.0	--	--	--	--	--	--	--	--	--
23	10.0	--	8.0	11.0	--	10.0	11.5	--	11.0	--	--	--	--	--	--	--	--	--
24	9.5	--	8.5	11.0	--	10.0	12.0	--	11.0	--	--	--	--	--	--	21.0	--	20.0
25	9.5	--	8.0	11.0	--	10.5	12.0	--	11.0	--	--	--	--	--	--	20.0	--	20.0
26	9.5	--	8.0	11.0	--	10.5	12.0	--	11.0	--	--	--	--	15.0	--	20.0	--	20.0
27	--	--	--	11.0	--	10.5	12.0	--	11.0	--	--	--	--	--	--	20.0	--	20.0
28	--	--	--	11.0	--	10.0	12.0	--	11.0	--	--	--	--	--	--	20.0	--	20.0
29	--	--	--	11.0	--	10.5	12.0	--	11.0	--	--	--	--	--	--	20.0	--	20.0
30	10.0	--	8.5	11.0	--	10.5	12.0	--	11.0	--	--	--	--	--	--	20.0	--	20.0
31	--	--	--	11.0	--	10.5	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	--	--	--	11.0	--	8.0	12.0	--	10.0	--	--	--	--	--	--	--	--	--



11462500 RUSSIAN RIVER NEAR HOPLAND, CALIF.

LOCATION.--Lat 39°01'36", long 123°07'46", in Rancho de Sanel Grant, Mendocino County, on right bank at abandoned highway bridge, 0.2 mi (0.3 km) downstream from McNab Creek, 4 mi (6 km) north of Hopland.

DRAINAGE AREA.--362 mi<sup>2</sup> (938 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 497.61 ft (151.672 m) above mean sea level. Prior to Sept. 9, 1943, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--36 years, 739 ft<sup>3</sup>/s (20.93 m<sup>3</sup>/s), 535,400 acre-ft/yr (660 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 21,500 ft<sup>3</sup>/s (609 m<sup>3</sup>/s) Feb. 12 (gage height, 18.70 ft or 5.700 m); minimum daily, 118 ft<sup>3</sup>/s (3.34 m<sup>3</sup>/s) Dec. 8.

Period of record: Maximum discharge, 45,000 ft<sup>3</sup>/s (1,270 m<sup>3</sup>/s) Dec. 22, 1955 (gage height, 27.00 ft or 8.230 m); minimum daily, 26 ft<sup>3</sup>/s (0.74 m<sup>3</sup>/s) Dec. 18, 1943, June 26, 1949.

Flood in December 1937 reached a stage of 30.0 ft (9.14 m), from floodmarks.

REMARKS.--Records good. Diversions for irrigation of about 11,800 acres (47.8 km<sup>2</sup>) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino 15 mi (24 km) upstream (see sta 11461800).

REVISIONS.--WSP 1041: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	378	333	212	219	1830	659	1080	578	281	232	219	253
2	378	333	225	212	3660	821	648	648	283	232	231	253
3	378	333	337	208	2060	695	584	648	279	232	234	265
4	364	307	552	236	3670	648	584	642	278	231	237	297
5	355	239	170	268	3520	630	549	636	275	232	236	298
6	355	236	140	2800	3460	642	500	630	276	231	237	297
7	360	250	129	945	3560	2650	495	607	295	232	240	299
8	364	250	118	2190	3160	3740	555	653	298	229	246	299
9	364	250	126	1030	4250	2250	522	707	298	228	265	299
10	364	246	164	689	3900	2570	490	665	289	226	267	293
11	364	246	167	505	3450	3040	500	337	253	229	266	291
12	369	246	173	396	9440	2130	527	309	249	245	262	289
13	373	253	195	337	8450	1090	516	294	245	246	245	286
14	378	250	199	303	4510	960	589	282	243	246	243	283
15	378	236	229	297	3880	968	636	269	243	240	240	283
16	387	236	202	272	3370	1890	495	260	244	222	236	283
17	387	232	173	251	3040	3250	490	256	238	214	239	286
18	382	232	164	240	2700	8540	405	257	237	201	247	285
19	378	232	158	231	4160	9910	449	252	236	198	246	287
20	382	236	161	229	3180	3210	449	248	238	199	247	287
21	387	246	176	344	2470	8960	439	246	239	201	248	287
22	391	243	179	544	1490	8380	429	242	239	201	249	290
23	391	239	176	560	1250	5300	449	237	241	201	246	294
24	373	236	173	563	1040	6420	624	232	235	204	249	295
25	364	239	173	563	857	9950	726	229	236	221	252	295
26	351	222	176	563	763	5960	601	229	236	219	253	297
27	355	215	633	489	701	5850	561	226	234	221	255	298
28	378	215	791	360	659	5360	544	221	232	222	257	300
29	369	215	279	345	---	4020	561	234	231	218	256	302
30	351	212	205	311	---	3720	555	245	231	218	255	303
31	333	---	212	385	---	2700	---	277	---	215	253	---
TOTAL	11481	7458	7167	16885	88480	112913	16552	11796	7632	6886	7656	8674
MEAN	370	249	231	545	3160	3642	552	381	254	222	247	289
MAX	391	333	791	2800	9440	9950	1080	707	298	246	267	303
MIN	333	212	118	208	659	630	405	221	231	198	219	253
AC=FT	22770	14790	14220	33490	175500	224000	32830	23400	19140	13660	15190	17200
CAL YR 1974 TOTAL	329712		MEAN 903	MAX 14600	MIN 118	AC=FT 654000						
WTR YR 1975 TOTAL	303580		MEAN 832	MAX 9950	MIN 118	AC=FT 602200						

## 11462500 RUSSIAN RIVER NEAR HOPLAND, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1965, water year 1966 (partial-record station).

Water temperatures: September 1965 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 21.0°C Oct. 1-3; minimum, 5.0°C Jan. 31 to Feb. 2.

Period of record:

Water temperatures: Maximum (1965-66, 1968-69, 1971 to current year), 24.0°C on several days in 1969 and 1973; minimum (1965-68, 1969-70, 1971 to current year), 5.0°C Feb. 2, Dec. 16, 1972, Jan. 31 to Feb. 2, 1975.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

## 11463000 RUSSIAN RIVER NEAR CLOVERDALE, CALIF.

LOCATION.--Lat 38°52'46", long 123°03'09", in NW¼NW¼ sec.23, T.12 N., R.11 W., Mendocino County, on left bank 0.3 mi (0.5 km) downstream from Cumisky Creek, and 5.5 mi (8.8 km) northwest of Cloverdale.

DRAINAGE AREA.--503 mi<sup>2</sup> (1,303 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Altitude of gage is 350 ft (107 m), from topographic map. Prior to July 30, 1970, at site 0.2 mi (0.3 km) upstream at different datum.

AVERAGE DISCHARGE.--24 years, 1,027 ft<sup>3</sup>/s (29.08 m<sup>3</sup>/s), 744,100 acre-ft/yr (917 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 21,200 ft<sup>3</sup>/s (600 m<sup>3</sup>/s) Feb. 12 (gage height, 17.50 ft or 5.334 m); minimum daily, 144 ft<sup>3</sup>/s (4.08 m<sup>3</sup>/s) Dec. 9.  
Period of record: Maximum discharge, 55,200 ft<sup>3</sup>/s (1,560 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 31.60 ft or 9.632 m, site and datum then in use); minimum daily, 80 ft<sup>3</sup>/s (2.27 m<sup>3</sup>/s) May 25, 1970.

REMARKS.--Records good. Diversions for irrigation of about 15,300 acres (61.9 km<sup>2</sup>) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino 28 mi (45 km) upstream (see sta 11461800).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	405	359	174	280	4090	1060	1700	719	299	230	193	240
2	405	356	202	263	6640	1560	1130	812	307	226	206	238
3	405	356	906	245	3890	1230	989	812	303	226	215	240
4	392	350	967	266	5930	1090	961	812	295	223	221	282
5	382	256	308	297	5220	1050	917	792	285	227	212	290
6	379	235	211	3560	5350	1130	817	782	280	230	219	289
7	372	253	178	1650	5830	5300	762	777	302	231	222	290
8	372	248	158	2990	6070	5880	864	787	312	222	228	292
9	372	245	144	1790	8570	3780	792	869	317	223	249	286
10	369	243	187	1130	7030	3480	724	869	311	216	257	283
11	369	243	200	802	5360	3870	700	491	266	217	262	277
12	372	240	202	585	11200	3050	729	392	250	239	259	269
13	372	238	225	468	12200	1870	700	366	244	245	238	270
14	372	238	240	402	5660	1680	729	341	236	247	234	264
15	372	218	285	372	4610	1880	869	332	244	238	228	266
16	375	214	263	338	3940	3250	686	310	247	227	218	266
17	375	214	221	307	3500	3820	659	298	234	213	229	269
18	375	211	202	285	3180	10500	533	293	236	194	243	270
19	372	209	193	268	4270	7500	573	287	235	193	245	272
20	372	207	187	254	4190	4420	569	280	234	188	245	272
21	375	223	202	306	3260	9270	557	275	235	191	245	269
22	379	221	209	616	2170	11900	541	266	236	189	243	272
23	379	211	209	650	1870	6330	549	258	239	187	244	275
24	379	207	209	660	1630	6800	838	252	238	184	241	276
25	369	209	207	663	1370	10800	1090	248	239	202	237	274
26	350	187	207	663	1230	6570	833	250	237	201	229	274
27	350	180	1410	625	1110	6280	748	242	234	198	240	276
28	385	178	1900	428	1040	5990	710	238	229	204	242	281
29	372	176	557	403	---	4520	724	252	232	199	240	287
30	363	176	329	366	---	4160	710	250	235	197	238	285
31	363	---	288	1100	---	3360	---	291	---	191	239	---
TOTAL	11643	7101	11380	23032	130410	143380	23703	14243	7791	6598	7261	8194
MEAN	376	237	367	743	4658	4625	790	459	260	213	234	273
MAX	405	359	1900	3560	12200	11900	1700	869	317	247	262	292
MIN	350	176	144	245	1040	1050	533	238	229	184	193	238
AC-FT	23090	14080	22570	45680	258700	284400	47010	28250	15450	13090	14400	16250
CAL YR 1974 TOTAL	487350		MEAN	1335	MAX	40900	MIN	144	AC-FT	966700		
WTR YR 1975 TOTAL	394736		MEAN	1081	MAX	12200	MIN	144	AC-FT	783000		

## RUSSIAN RIVER BASIN

11463900 MAACAMA CREEK NEAR KELLOGG, CALIF.

LOCATION.--Lat 38°38'25", long 122°45'45", in SW¼ sec.9, T.9 N., R.8 W., Sonoma County, on right bank 0.5 mi (0.8 km) downstream from Redwood Creek, and 4.4 mi (7.1 km) west of Kellogg.

DRAINAGE AREA.--43.4 mi<sup>2</sup> (112.4 km<sup>2</sup>).

PERIOD OF RECORD.--Occasional low-flow measurements and annual maximum, water years 1958-60, December 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 188.91 ft (57.580 m) above mean sea level. Prior to Dec. 20, 1960, crest-stage gage only at site 700 ft (213 m) upstream at different datum.

AVERAGE DISCHARGE.--14 years (1961-75), 92.0 ft<sup>3</sup>/s (2.605 m<sup>3</sup>/s), 66,650 acre-ft/yr (82.2 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 4,770 ft<sup>3</sup>/s (135 m<sup>3</sup>/s) Mar. 21 (gage height, 13.37 ft or 4.075 m); minimum daily, 0.66 ft<sup>3</sup>/s (0.019 m<sup>3</sup>/s) Sept. 5.

Period of record: Maximum discharge, 8,920 ft<sup>3</sup>/s (253 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 17.56 ft or 5.352 m); no flow for many days in 1964 and 1968.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	2.1	2.1	15	222	65	111	31	9.0	3.0	.97	.80
2	1.4	1.8	4.9	12	367	139	95	30	8.5	2.8	1.0	.76
3	1.4	1.7	59	11	326	83	91	32	8.2	2.8	1.0	.72
4	1.4	1.8	45	11	398	70	94	30	7.2	2.9	1.0	.67
5	1.3	2.2	11	10	177	71	91	27	6.9	3.1	1.1	.66
6	1.1	2.2	6.9	141	195	74	85	25	7.4	2.8	1.0	.67
7	.98	2.8	5.4	83	371	435	79	26	7.5	3.0	1.5	.69
8	1.1	3.3	4.4	183	1100	378	81	25	7.1	2.9	1.1	.76
9	1.3	2.6	4.1	70	1050	249	73	25	6.6	2.7	.99	.85
10	1.4	2.4	3.9	61	562	280	62	24	5.1	2.6	.97	1.1
11	1.3	2.3	3.7	43	296	191	56	23	6.4	2.6	.88	1.2
12	1.1	2.1	3.9	33	1740	145	51	22	6.5	2.4	.87	1.2
13	1.1	2.0	3.9	28	1540	131	49	21	6.0	2.2	.87	1.1
14	1.2	2.0	3.9	24	456	117	47	20	5.7	1.9	1.6	1.1
15	1.2	2.0	4.2	22	291	143	47	20	5.7	2.2	7.1	1.1
16	1.2	2.0	4.0	19	220	206	45	19	5.5	3.5	4.0	1.1
17	1.1	2.1	3.9	18	140	327	41	18	4.7	2.5	1.7	1.0
18	1.1	3.3	3.9	16	160	782	34	18	4.8	2.3	1.2	1.0
19	1.1	2.7	3.7	15	316	719	33	16	4.6	2.1	1.2	1.0
20	1.1	2.3	3.7	14	195	398	35	16	4.9	2.0	1.2	1.0
21	1.1	6.3	3.6	13	143	1320	34	16	5.2	2.3	1.0	1.0
22	1.1	5.4	3.7	12	114	731	32	15	5.8	1.8	.91	.94
23	1.2	3.2	3.4	11	100	424	33	15	5.2	1.6	1.0	.89
24	1.2	2.9	3.3	11	85	503	125	15	4.2	1.5	.83	.89
25	1.3	3.3	3.3	11	78	686	80	14	4.7	1.7	.80	.84
26	1.3	2.7	3.3	10	70	377	53	13	4.4	1.2	.77	1.0
27	1.9	2.4	196	9.5	65	285	45	12	3.9	1.5	.75	1.1
28	5.2	2.3	282	8.9	60	225	40	11	3.3	1.3	.81	.76
29	2.8	2.2	52	8.9	---	183	33	9.2	2.9	.90	.92	.81
30	2.0	2.1	28	8.7	---	152	31	8.8	3.2	1.2	.88	.75
31	2.2	---	18	21	---	131	---	9.0	---	1.3	.83	---
TOTAL	45.58	78.5	782.1	954.0	10837	10020	1806	606.0	171.1	68.60	40.75	27.46
MEAN	1.47	2.62	25.2	30.8	387	323	60.2	19.5	5.70	2.21	1.31	.92
MAX	5.2	6.3	282	183	1740	1320	125	32	9.0	3.5	7.1	1.2
MIN	.98	1.7	2.1	8.7	60	65	31	8.8	2.9	.90	.75	.66
AC-FT	90	156	1550	1890	21500	19870	3580	1200	339	136	81	54
CAL YR 1974 TOTAL	39012.29			MEAN 107	MAX 3670	MIN .70	AC-FT 77380					
WTR YR 1975 TOTAL	25437.09			MEAN 69.7	MAX 1740	MIN .66	AC-FT 50450					

Peak discharge (base, 2,000 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-8	2030	10.22	2,330	3-21	1630	13.37	4,770
2-13	0100	12.63	4,130				

## RUSSIAN RIVER BASIN

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11464000 RUSSIAN RIVER NEAR HEALDSBURG, CALIF.

LOCATION.--Lat 38°36'48", long 122°50'07", in Sotoyome Grant, Sonoma County, on left bank 2 mi (3 km) east of Healdsburg, and 3.5 mi (5.6 km) upstream from Dry Creek.

DRAINAGE AREA.--793 mi<sup>2</sup> (2,054 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 77.01 ft (23.473 m) above mean sea level.

AVERAGE DISCHARGE.--36 years, 1,472 ft<sup>3</sup>/s (41.69 m<sup>3</sup>/s), 1,066,000 acre-ft/yr (1.31 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 37,000 ft<sup>3</sup>/s (1,050 m<sup>3</sup>/s) Feb. 13 (gage height, 17.99 ft or 5.483 m); minimum daily, 167 ft<sup>3</sup>/s (4.73 m<sup>3</sup>/s) Aug. 1.

Period of record: Maximum discharge, 71,300 ft<sup>3</sup>/s (2,020 m<sup>3</sup>/s) Dec. 23, 1964 (gage height, 27.00 ft or 8.230 m); maximum gage height, 30.0 ft (9.14 m) Feb. 28, 1940; minimum daily discharge, 38 ft<sup>3</sup>/s (1.08 m<sup>3</sup>/s) July 2, 1950.

Flood of December 1937 reached a stage of 30.8 ft (9.39 m) from floodmarks.

REMARKS.--Records good except those for period of May 22 to September 10, which are fair. Several diversions for irrigation of about 17,800 acres (72.0 km<sup>2</sup>) above station. Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations) and since November 1958 by storage in Lake Mendocino 63 mi (101 km) upstream (see sta 11461800).

REVISIONS (WATER YEARS).--WSP 981: 1942.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	377	352	223	494	4550	1410	2850	953	300	223	167	242
2	377	346	240	465	9420	2360	2090	964	324	218	169	248
3	377	343	408	432	5730	2110	1760	1010	318	215	173	257
4	374	341	2430	415	7180	1680	1760	1010	312	212	196	284
5	364	329	790	424	6010	1530	1660	978	298	210	210	290
6	359	275	434	1820	6150	1730	1800	955	290	212	204	288
7	358	254	342	3470	7620	7190	1350	948	308	218	207	288
8	360	267	297	2990	9550	9790	1410	920	340	220	216	280
9	366	274	267	3100	15900	7000	1350	953	350	218	230	275
10	366	265	248	1760	12800	5360	1220	1010	335	215	245	272
11	359	261	264	1270	7640	5400	1140	897	300	212	250	268
12	358	258	268	873	13200	4660	1120	643	275	225	243	264
13	359	257	272	679	29200	3050	1090	576	260	234	240	261
14	360	260	285	559	11100	2620	1060	515	249	242	228	263
15	358	258	297	492	8010	2320	1130	528	255	230	225	260
16	359	246	319	451	6440	5260	1070	485	242	220	222	258
17	352	244	301	406	5340	4330	981	456	240	204	220	256
18	354	245	273	372	4690	13800	899	435	240	196	232	257
19	351	244	261	351	4350	12800	844	420	240	192	240	259
20	350	243	252	333	6680	8070	851	375	240	190	241	260
21	352	268	250	320	4880	11200	828	384	238	187	241	259
22	353	300	259	406	3410	20400	803	375	238	185	240	260
23	353	278	259	569	2820	10500	789	382	238	184	240	259
24	355	262	257	602	2500	9780	1000	380	236	187	238	259
25	354	255	256	611	2150	14300	1640	354	236	208	230	257
26	343	250	252	618	1840	9450	1250	345	236	201	226	258
27	335	238	1440	609	1620	8330	1080	345	234	200	236	261
28	378	231	4530	517	1480	7680	1010	303	228	207	240	266
29	382	227	1550	421	---	6120	973	294	222	190	240	272
30	361	224	727	390	---	5110	955	290	220	185	240	273
31	355	---	552	615	---	4610	---	286	---	177	240	---
TOTAL	11159	8095	18803	26834	202260	209970	37763	18769	8042	6417	6969	7954
MEAN	360	270	607	866	7224	6773	1259	605	268	207	225	265
MAX	382	352	4530	3470	29200	20400	2850	1010	350	242	250	290
MIN	335	224	223	320	1480	1410	789	286	220	177	167	242
AC-FT	22130	16060	37300	53230	401200	416500	74900	37230	15950	12730	13820	15780
CAL YR 1974 TOTAL	728589			1996	MAX 41200	MIN 192	AC-FT 1445000					
WTR YR 1975 TOTAL	563035			1543	MAX 29200	MIN 167	AC-FT 1117000					

## 11464000 RUSSIAN RIVER NEAR HEALDSBURG, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1965, water year 1966 (partial-record station).  
Water temperatures: October 1965 to current year.

## EXTREMES.--Current year:

Water temperatures: Maximum, 27.5°C July 25; minimum, 6.0°C Dec. 29.

## Period of record:

Water temperatures: Maximum (1965-68, 1969-70, 1971 to current year), 28.0°C July 13, 14, 1972; minimum (1965-69, 1971 to current year), 5.0°C Dec. 10, 11, 1972.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	18.0	15.5	13.5	11.5	9.5	7.5	7.0			---	---
2	21.5	19.0	15.0	12.5	11.5	11.5	7.5	7.0			---	---
3	21.0	18.5	15.0	12.5	12.0	11.5	7.5	7.0			---	---
4	21.0	17.5	14.5	12.5	12.0	11.0	8.5	7.0			---	---
5	20.5	16.5	15.0	12.0	11.0	10.5	8.5	7.5			---	---
6	20.0	16.5	15.5	12.5	12.5	11.0	9.0	7.5			---	---
7	19.5	16.5	15.0	13.5	12.5	11.0	9.0	8.5			---	---
8	19.0	17.5	14.0	12.0	11.0	10.5	9.0	9.0			12.5	12.0
9	19.5	17.0	14.0	11.0	11.0	10.0	9.0	7.5			12.5	11.5
10	19.5	16.0	16.0	14.0	10.5	9.5	8.5	7.5			11.5	11.5
11	19.5	16.0	15.5	13.0	11.0	10.0	8.5	8.0			12.5	11.0
12	20.0	16.5	15.5	13.0	11.0	11.0	8.5	8.0			12.5	10.5
13	20.0	16.0	15.5	13.0	11.0	10.0	8.5	8.5			11.5	10.5
14	19.5	16.0	15.0	13.5	11.0	11.0	8.5	8.5			12.0	9.5
15	20.0	16.5	14.5	14.0	11.5	10.5	9.0	9.0			12.0	9.5
16	20.0	16.5	14.5	13.0	11.5	11.0	9.0	8.5			10.5	8.0
17	20.0	17.0	14.5	13.5	11.5	10.0	9.0	8.5			10.0	9.5
18	19.5	16.5	14.5	13.5	10.0	9.0	9.5	9.0			11.0	9.5
19	19.0	16.5	13.5	12.0	9.0	8.0	9.5	9.0			12.0	11.0
20	19.0	15.5	13.5	11.5	9.0	9.0	10.0	9.0			11.5	9.5
21	18.0	15.0	13.5	12.5	9.5	9.0	10.0	9.0			10.5	9.0
22	17.5	14.5	12.5	11.0	9.0	8.0	10.0	9.5			10.0	8.5
23	17.0	15.5	12.0	10.5	8.0	7.0	10.0	9.0			10.0	9.5
24	16.5	15.0	12.0	10.0	7.0	6.5	9.5	9.0			11.0	10.0
25	16.5	14.5	13.0	11.5	7.0	6.5	10.0	9.5			11.5	10.5
26	17.0	14.5	12.5	10.5	8.0	7.0	10.0	8.5			11.0	10.0
27	16.5	15.5	12.0	10.0	8.5	7.5	---	---			11.0	9.5
28	16.0	15.0	12.0	10.0	8.5	8.0	---	---			11.0	9.0
29	15.0	14.0	11.0	9.5	8.0	6.0	---	---			12.5	9.5
30	15.0	13.5	11.5	10.5	7.0	6.5	---	---			13.5	11.0
31	15.5	14.5	---	---	7.0	7.0	---	---			13.0	11.0
MONTH	21.5	13.5	16.0	9.5	12.5	6.0	10.0	7.0			---	---

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

## RUSSIAN RIVER BASIN

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11464400 DRY CREEK NEAR YORKVILLE, CALIF.

LOCATION.--Lat 38°47'21", long 123°19'16", in SE¼NE¼ sec.23, T.11 N., R.12 W., Sonoma County, on right bank at downstream side of bridge on Hot Springs Road, 0.1 mi (0.2 km) downstream from Rail Creek, 7.5 mi (12.1 km) west of Cloverdale, and 8.2 mi (13.2 km) southeast of Yorkville.

DRAINAGE AREA.--56.0 mi<sup>2</sup> (145.0 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and crest-stage gage. Altitude of gage is 500 ft (152 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 6,210 ft<sup>3</sup>/s (176 m<sup>3</sup>/s) Feb. 12 (gage height, 9.44 ft or 2.877 m); minimum daily, 0.92 ft<sup>3</sup>/s (0.026 m<sup>3</sup>/s) Aug. 26-30, Sept. 16-22.  
Period of record: Maximum discharge, 15,400 ft<sup>3</sup>/s (436 m<sup>3</sup>/s) Jan. 16, 1974 (gage height, 13.50 ft or 4.115 m); minimum daily, 0.92 ft<sup>3</sup>/s (0.026 m<sup>3</sup>/s) Aug. 26-30, Sept. 16-22, 1975.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	2.5	4.5	75	773	136	165	69	9.4	5.8	2.7	1.1
2	1.2	2.3	70	59	683	218	147	65	10	5.8	2.4	1.1
3	1.2	2.3	591	49	408	161	133	60	10	5.8	2.4	1.1
4	1.2	2.3	277	47	543	143	140	57	9.4	5.8	2.1	1.1
5	1.2	2.3	95	45	432	136	140	55	9.4	5.8	2.1	1.1
6	1.2	2.3	52	330	567	140	123	52	8.5	5.8	2.1	1.1
7	1.2	3.4	32	170	682	769	112	47	9.4	5.8	1.9	1.1
8	1.2	3.9	23	228	1250	681	109	45	8.5	5.8	1.9	1.1
9	1.2	2.9	16	148	1900	476	98	37	7.7	5.8	1.9	1.1
10	1.3	2.9	13	144	1260	407	90	37	7.0	5.2	1.9	1.1
11	1.3	2.9	11	115	618	308	83	35	6.4	5.2	1.9	1.1
12	1.2	2.7	11	89	3170	246	83	27	7.0	4.7	1.6	1.1
13	1.2	2.7	11	75	2730	209	76	27	7.0	4.2	1.6	1.1
14	1.2	2.7	18	57	733	180	74	27	6.4	4.2	1.9	1.1
15	1.2	2.7	30	49	455	303	65	27	5.8	4.2	1.9	1.1
16	1.2	2.7	19	43	325	331	65	25	5.8	4.7	1.9	.92
17	1.2	2.7	14	36	260	513	69	25	5.8	4.7	1.9	.92
18	1.2	3.4	12	32	214	1010	62	18	5.8	5.2	2.1	.92
19	1.2	3.6	11	28	387	930	57	16	5.8	5.2	2.1	.92
20	1.2	3.1	9.4	25	276	628	55	18	5.8	4.7	2.1	.92
21	1.2	23	9.4	22	218	2160	52	16	5.8	4.7	1.9	.92
22	1.2	15	8.8	20	184	1480	47	14	5.8	4.2	1.4	.92
23	1.2	7.7	7.7	19	165	755	45	14	5.8	4.2	1.2	1.1
24	1.2	6.2	7.2	18	150	737	188	14	5.8	3.8	1.1	1.1
25	1.2	8.8	7.2	16	140	1020	157	15	5.8	3.4	1.1	1.1
26	1.2	7.7	7.2	16	126	654	112	14	5.8	3.4	.92	1.1
27	2.1	6.2	531	15	117	491	96	13	5.8	3.1	.92	1.1
28	11	5.5	650	15	112	355	88	13	5.8	3.1	.92	1.1
29	4.2	4.8	185	14	---	276	79	11	5.8	2.7	.92	1.1
30	2.7	4.8	125	14	---	227	76	10	5.8	2.7	.92	1.1
31	2.7	---	92	328	---	192	---	10	---	2.4	1.1	---
TOTAL	54.1	146.0	2950.4	2341	18858	16272	2886	913	208.9	142.1	52.80	31.74
MEAN	1.75	4.87	95.2	75.5	674	525	96.2	29.5	6.96	4.58	1.70	1.06
MAX	11	23	650	330	3170	2160	188	69	10	5.8	2.7	1.1
MIN	1.2	2.3	4.5	14	112	136	45	10	5.8	2.4	.92	.92
AC-FT	107	290	5850	4640	37400	32280	5720	1810	414	282	105	63
CAL YR 1974	TOTAL	66011.10	MEAN 181	MAX 8410	MIN 1.1	AC-FT 130900						
WTR YR 1975	TOTAL	44856.04	MEAN 123	MAX 3170	MIN .92	AC-FT 88970						

Peak discharge (base, 3,000 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-8	2100	7.70	3,040	3-21	1600	8.88	5,180
2-12	1800	9.44	6,210				

## RUSSIAN RIVER BASIN

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, on left bank 500 ft (152 m) downstream from Smith Creek, and 5 mi (8 km) southwest of Cloverdale.

DRAINAGE AREA.--87.8 mi<sup>2</sup> (227.4 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 304.04 ft (92.671 m) above mean sea level.

AVERAGE DISCHARGE.--34 years, 166 ft<sup>3</sup>/s (4.701 m<sup>3</sup>/s), 120,300 acre-ft/yr (148 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 7,700 ft<sup>3</sup>/s (218 m<sup>3</sup>/s) Feb. 12 (gage height, 11.35 ft or 3.459 m); minimum daily, 0.86 ft<sup>3</sup>/s (0.024 m<sup>3</sup>/s) Sept. 29.  
 Period of record: Maximum discharge, 18,100 ft<sup>3</sup>/s (513 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 18.09 ft or 5.514 m); minimum, 0.10 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) several days in 1944, 1949, 1951-53, 1962, 1964.  
 Flood in December 1937 reached a stage of about 18 ft (5.5 m), from floodmarks.

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

REVISIONS (WATER YEARS).--WSP 1395: 1942(M), 1943, 1946(M), 1951-54(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	3.7	5.9	67	1020	158	210	73	18	6.1	2.5	1.5
2	1.1	3.1	52	52	859	260	187	68	18	6.1	2.2	1.4
3	1.3	2.9	635	43	521	184	178	68	18	6.1	2.1	1.3
4	1.4	3.0	213	43	540	162	186	63	16	6.1	2.0	1.3
5	1.5	2.9	64	41	389	163	185	60	15	6.2	2.0	1.2
6	1.6	3.2	39	326	538	163	162	57	15	6.0	1.9	1.2
7	1.6	4.8	32	181	735	1180	150	54	15	5.7	1.9	1.2
8	1.7	5.6	27	241	1500	975	147	52	14	5.5	1.8	1.2
9	1.7	4.6	25	170	2470	628	134	49	14	5.3	1.8	1.3
10	1.7	3.9	23	163	1790	532	124	48	13	5.2	1.8	1.3
11	1.6	3.9	22	131	810	380	117	46	13	5.0	1.7	1.3
12	1.5	3.9	22	109	3960	298	109	43	13	4.8	1.8	1.3
13	1.3	3.7	22	93	3590	264	103	41	13	4.8	1.8	1.3
14	1.2	3.9	24	77	1540	226	99	41	12	4.7	1.8	1.3
15	1.2	3.7	30	61	784	325	95	41	12	5.6	1.8	1.3
16	1.1	3.7	25	52	488	399	95	39	12	6.4	1.8	1.3
17	1.0	3.9	23	44	367	558	93	37	11	5.9	1.9	1.2
18	1.0	5.1	22	39	290	1270	84	36	11	5.3	2.1	1.2
19	1.0	5.1	21	35	436	1240	80	33	11	5.0	1.9	1.2
20	1.1	4.6	20	32	338	736	76	31	11	4.8	2.1	1.2
21	1.2	21	20	30	264	2410	73	31	10	4.7	2.0	1.1
22	1.2	21	20	28	234	2320	71	30	10	4.3	1.9	1.0
23	1.3	11	19	26	210	1310	74	29	9.1	4.0	1.8	.98
24	1.3	9.3	18	24	190	987	200	27	10	3.7	1.7	.93
25	1.5	11	18	23	175	1370	148	26	9.2	3.2	1.7	.87
26	5.6	10	18	22	159	769	108	24	8.5	3.0	1.6	.88
27	13	8.5	595	21	146	580	94	23	7.2	2.9	1.7	.90
28	10	7.7	746	20	136	440	87	22	6.9	2.9	1.8	.91
29	6.4	7.0	187	19	---	347	81	21	6.9	2.8	1.7	.86
30	5.0	6.6	114	19	---	285	77	20	6.5	2.6	1.6	.89
31	4.4	---	84	397	---	244	---	19	---	2.5	1.6	---
TOTAL	77.5	192.3	3185.9	2629	24479	21163	3627	1252	359.3	147.2	57.8	34.82
MEAN	2.50	6.41	103	84.8	874	683	121	40.4	12.0	4.75	1.86	1.16
MAX	13	21	746	397	3960	2410	210	73	18	6.4	2.5	1.5
MIN	1.0	2.9	5.9	19	136	158	71	19	6.5	2.5	1.6	.86
AC=FT	154	381	6320	5210	48550	41980	7190	2480	713	292	115	69
CAL YR 1974 TOTAL	83188.97			MEAN 228	MAX 9190	MIN .84	AC=FT 165000					
WTR YR 1975 TOTAL	57204.82			MEAN 157	MAX 3960	MIN .86	AC=FT 113500					

Peak discharge (base, 3,300 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-9	1930	7.49	3,510	3-21	1545	9.88	6,020
2-12	1500	11.35	7,770				



## RUSSIAN RIVER BASIN

251

11464500 DRY CREEK NEAR CLOVERDALE, CALIF.--Continued

PERIOD OF RECORD.--Water temperatures: May 1965 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 29.5°C July 24-26; minimum, 6.0°C Jan. 30.

Period of record:

Water temperatures: Maximum (1965-66, 1967 to current year), 33.5°C Aug. 6, 7, 1966; minimum (1966 to current year), 2.0°C Dec. 10, 1972.

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	22.5	-- 16.0	16.0	-- 12.0	-- --	--	-- --	--	9.0	-- 7.0	12.5	-- 12.0
2	21.5	-- 17.5	15.5	-- 11.5	-- --	--	-- --	--	10.0	-- 8.5	14.5	-- 11.5
3	21.5	-- 17.5	15.5	-- 11.0	-- --	--	-- --	--	10.5	-- 9.0	14.5	-- 10.0
4	22.0	-- 17.0	15.0	-- 11.0	-- --	--	-- --	--	10.5	-- 8.5	14.0	-- 11.0
5	21.5	-- 15.5	15.5	-- 10.5	-- --	--	-- --	--	10.0	-- 9.5	12.0	-- 11.5
6	21.0	-- 14.5	16.0	-- 12.0	-- --	--	-- --	--	11.0	-- 10.5	13.0	-- 11.5
7	20.5	-- 14.5	15.0	-- 12.0	-- --	--	-- --	--	12.0	-- 11.0	12.5	-- 11.5
8	18.5	-- 17.5	14.0	-- 11.0	-- --	--	-- --	--	13.0	-- 12.0	13.0	-- 11.0
9	20.5	-- 17.0	15.5	-- 10.5	-- 11.0	--	-- --	--	12.5	-- 11.5	13.0	-- 10.5
10	19.0	-- 15.0	16.0	-- 13.0	-- --	--	-- --	--	12.5	-- 11.5	13.0	-- 10.5
11	19.5	-- 14.5	16.0	-- 12.0	-- --	--	-- --	--	12.0	-- 11.5	14.0	-- 10.0
12	19.5	-- 13.5	16.0	-- 11.5	-- --	--	-- --	--	12.0	-- 11.0	14.0	-- 9.5
13	19.5	-- 13.0	15.5	-- 11.5	-- --	--	-- --	--	13.0	-- 11.5	12.0	-- 10.0
14	18.5	-- 13.5	15.5	-- 12.0	-- --	--	9.0	--	12.0	-- 10.5	14.0	-- 9.0
15	19.0	-- 13.5	15.5	-- 12.0	-- --	--	10.0	8.0	11.5	-- 9.5	11.0	-- 9.0
16	19.5	-- 13.5	14.5	-- 12.0	-- --	--	10.0	7.0	12.0	-- 9.0	12.0	-- 9.0
17	19.0	-- 14.0	15.0	-- 12.0	-- --	--	10.5	7.5	11.0	-- 8.5	11.0	-- 9.5
18	19.0	-- 13.5	15.0	-- 12.0	-- --	--	10.5	7.5	11.5	-- 9.0	12.0	-- 10.5
19	18.5	-- 14.0	14.0	-- 11.0	-- --	--	11.0	8.5	12.5	-- 10.5	12.5	-- 10.0
20	17.5	-- 14.0	13.0	-- 11.0	-- --	--	11.0	8.5	12.5	-- 9.5	12.5	-- 9.5
21	17.5	-- 12.5	14.0	-- 12.0	-- --	--	11.5	8.5	11.5	-- 8.0	10.0	-- 9.5
22	16.5	-- 12.5	-- --	-- --	-- --	--	11.5	9.0	12.0	-- 8.0	12.0	-- 9.5
23	17.0	-- 14.5	-- --	-- --	-- --	--	11.5	8.5	12.5	-- 8.5	12.5	-- 10.5
24	16.0	-- 13.5	-- --	-- --	-- --	--	12.0	8.5	12.5	-- 9.0	13.0	-- 11.5
25	16.5	-- 13.5	-- --	-- --	-- --	--	12.5	10.5	13.5	-- 9.5	14.0	-- 11.0
26	16.0	-- 13.0	-- --	-- --	-- --	--	11.5	9.5	13.5	-- 10.0	14.0	-- 9.5
27	15.5	-- 14.0	-- --	-- --	-- --	--	10.5	7.5	14.5	-- 11.0	14.0	-- 9.5
28	16.0	-- 14.5	-- --	-- --	-- --	--	9.5	7.5	14.5	-- 11.5	14.0	-- 9.0
29	16.5	-- 12.5	-- --	-- --	-- --	--	9.5	6.5	-- --	-- --	15.0	-- 9.0
30	16.5	-- 12.5	-- --	-- --	-- --	--	9.0	6.0	-- --	-- --	16.5	-- 11.0
31	16.0	-- 14.0	-- --	-- --	-- --	--	9.0	7.0	-- --	-- --	15.5	-- 10.5
MONTH	22.5	-- 12.5	-- --	-- --	-- --	-- --	-- --	-- --	14.5	-- 7.0	16.5	-- 9.0

DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	15.5	-- 9.5	-- --	-- --	25.0	-- 19.0	24.0	-- 16.5	28.0	-- 18.0	-- --	-- --
2	14.5	-- 10.0	-- --	-- --	25.0	-- 18.5	24.0	-- 16.5	28.5	-- 18.5	-- --	-- --
3	14.5	-- 11.0	-- --	-- --	26.5	-- 17.5	24.0	-- 16.5	28.5	-- 19.5	-- --	-- --
4	13.0	-- 10.5	-- --	-- --	27.5	-- 19.0	22.0	-- 17.5	27.0	-- 19.0	-- --	-- --
5	12.0	-- 10.0	-- --	-- --	26.0	-- 19.5	25.0	-- 16.5	27.0	-- 18.5	-- --	-- --
6	13.0	-- 9.5	-- --	-- --	26.0	-- 19.5	26.0	-- 18.0	25.5	-- 18.5	-- --	-- --
7	13.0	-- 9.5	-- --	-- --	26.0	-- 19.0	26.5	-- 18.5	27.0	-- 17.5	-- --	-- --
8	14.0	-- 10.0	-- --	-- --	27.0	-- 19.0	27.0	-- 18.5	28.0	-- 19.0	-- --	-- --
9	17.0	-- 9.0	-- --	-- --	27.5	-- 19.5	26.0	-- 19.0	28.0	-- 19.5	-- --	-- --
10	17.0	-- 10.5	-- --	-- --	27.0	-- 19.5	26.5	-- 18.5	27.5	-- 19.0	-- --	-- --
11	18.0	-- 11.0	-- --	-- --	25.5	-- 20.0	27.0	-- 18.5	26.0	-- 19.0	-- --	-- --
12	18.5	-- 11.0	-- --	-- --	26.5	-- 19.5	26.5	-- 18.5	26.0	-- 18.5	-- --	-- --
13	18.0	-- 12.0	-- --	-- --	27.5	-- 20.0	27.0	-- 19.0	26.0	-- 19.0	-- --	-- --
14	16.0	-- 11.5	-- 17.0	-- --	26.5	-- 20.5	26.5	-- 19.0	26.0	-- 18.5	-- --	-- --
15	14.5	-- 10.0	22.5	-- 15.5	26.0	-- 20.0	22.0	-- 20.0	26.0	-- 18.5	-- --	-- --
16	13.0	-- 9.5	23.0	-- 15.0	26.5	-- 19.5	25.5	-- 19.5	26.0	-- 18.5	-- --	-- --
17	17.0	-- 8.5	24.5	-- 16.0	24.0	-- 17.0	26.5	-- 19.5	23.0	-- 18.5	-- --	-- --
18	17.5	-- 10.0	25.0	-- 17.5	25.5	-- 17.0	26.5	-- 20.0	25.0	-- 19.0	-- --	-- --
19	20.0	-- 12.0	22.5	-- 16.5	24.5	-- 17.0	27.5	-- 19.5	25.0	-- 19.0	-- --	-- --
20	19.0	-- 12.0	21.0	-- 13.5	25.0	-- 17.5	27.0	-- 19.5	-- 21.0	-- --	-- --	-- --
21	20.0	-- 12.0	22.5	-- 14.5	25.0	-- 18.0	28.0	-- 20.0	-- --	-- --	-- --	-- --
22	15.0	-- 11.5	23.0	-- 15.5	24.5	-- 17.5	28.5	-- 20.0	-- --	-- --	-- --	-- --
23	14.0	-- 11.5	25.0	-- 17.0	24.5	-- 17.0	29.0	-- 20.0	-- --	-- --	-- --	-- --
24	14.5	-- 12.0	25.0	-- 18.0	24.0	-- 16.0	29.5	-- 19.5	-- --	-- --	-- --	-- --
25	-- --	-- --	25.5	-- 17.0	24.0	-- 15.5	29.5	-- 20.0	-- --	-- --	-- --	-- --
26	-- --	-- --	25.0	-- 17.5	24.0	-- 16.5	29.5	-- 20.0	-- --	-- --	-- --	-- --
27	-- --	-- --	24.5	-- 16.5	24.5	-- 15.5	27.5	-- 20.0	-- --	-- --	-- --	-- --
28	-- --	-- --	26.0	-- 17.5	24.5	-- 16.0	27.5	-- 19.5	-- --	-- --	-- --	-- --
29	-- --	-- --	27.0	-- 19.0	25.0	-- 16.5	26.5	-- 18.0	-- --	-- --	-- --	-- --
30	-- --	-- --	27.0	-- 18.5	24.0	-- 16.5	27.5	-- 18.0	-- --	-- --	-- --	-- --
31	-- --	-- --	25.5	-- 19.5	-- --	-- --	28.0	-- 19.0	-- --	-- --	-- --	-- --
MONTH	20.0	-- 8.5	-- --	-- --	27.5	-- 15.5	29.5	-- 16.5	-- --	-- --	-- --	-- --

## RUSSIAN RIVER BASIN

11464860 WARM SPRINGS CREEK NEAR ASTI, CALIF.

LOCATION.--Lat 38°41'46", long 123°05'44", in SW¼SE¼ sec.20, T.10 N., R.11 W., Sonoma County, on left bank, 0.6 mi (1.0 km) upstream from Strawberry Creek, 7.9 mi (12.7 km) southwest of Asti.

DRAINAGE AREA.--12.2 mi<sup>2</sup> (31.6 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Altitude of gage is 625 ft (191 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 908 ft<sup>3</sup>/s (25.7 m<sup>3</sup>/s) Mar. 21 (gage height, 7.09 ft or 2.161 m); minimum daily, 0.22 ft<sup>3</sup>/s (0.006 m<sup>3</sup>/s) Sept. 25-27.  
Period of record: Maximum discharge, 2,230 ft<sup>3</sup>/s (63.2 m<sup>3</sup>/s) Jan. 16, 1974 (gage height, 9.66 ft or 2.944 m); minimum daily, 0.22 ft<sup>3</sup>/s (0.006 m<sup>3</sup>/s) Sept. 25-27, 1975.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	1.0	1.4	12	154	36	49	14	4.1	1.8	.76	.44
2	.52	1.0	12	9.9	178	56	44	13	4.1	1.8	.73	.44
3	.56	.97	138	8.2	116	41	40	13	3.8	1.7	.69	.40
4	.60	.97	35	8.5	145	37	43	12	3.4	1.7	.69	.36
5	.56	.97	13	9.9	96	36	43	12	3.4	1.8	.65	.33
6	.52	1.0	7.6	111	115	34	41	11	3.2	1.6	.62	.33
7	.48	1.8	5.7	63	187	162	37	11	3.2	1.6	.65	.29
8	.52	1.3	4.5	87	427	136	37	10	3.1	1.5	.62	.33
9	.65	1.2	3.8	54	442	107	33	9.7	2.8	1.5	.58	.40
10	.65	1.2	3.2	41	266	94	31	9.3	2.8	1.5	.58	.44
11	.60	1.2	3.1	30	148	73	29	8.8	2.8	1.4	.55	.47
12	.56	1.1	3.1	23	425	62	26	8.4	2.9	1.4	.58	.44
13	.52	1.1	2.7	18	521	58	25	8.1	2.6	1.4	.62	.44
14	.52	1.1	3.1	16	210	50	24	7.8	2.5	1.4	.58	.40
15	.52	1.1	2.7	14	131	74	23	7.5	2.6	1.4	.55	.44
16	.52	1.2	2.6	12	89	88	22	7.2	2.6	1.5	.55	.40
17	.52	1.3	2.4	10	65	100	21	6.9	2.3	1.4	.58	.36
18	.48	2.3	2.3	9.2	55	230	19	6.7	2.3	1.3	.62	.36
19	.48	1.5	2.2	8.2	84	218	18	6.5	2.3	1.2	.62	.36
20	.52	1.4	2.2	7.6	70	153	17	6.5	2.3	1.2	.58	.36
21	.60	10	2.2	7.0	60	399	17	6.2	2.2	1.1	.55	.36
22	.69	3.1	2.0	6.5	52	362	17	6.0	2.2	1.1	.51	.33
23	.80	1.9	1.9	6.2	45	208	17	5.7	2.0	1.0	.47	.33
24	.91	1.8	1.9	5.7	41	195	31	5.5	2.3	.98	.47	.25
25	.97	2.0	1.9	5.7	37	329	23	5.2	2.3	.95	.44	.22
26	1.0	1.7	1.9	5.5	33	188	19	5.0	2.0	.91	.47	.22
27	2.0	1.6	105	5.0	29	131	18	4.7	2.0	.84	.58	.22
28	3.8	1.5	93	4.7	27	97	17	4.5	1.9	.87	.58	.25
29	1.3	1.4	35	4.7	---	75	16	4.3	1.8	.87	.51	.29
30	1.0	1.4	22	4.5	---	63	15	4.1	1.8	.80	.47	.25
31	1.2	---	16	102	---	58	---	4.1	---	.80	.44	---
TOTAL	25.09	51.11	533.4	710.0	4248	3950	812	244.7	79.8	40.32	17.89	10.51
MEAN	.81	1.70	17.2	22.9	152	127	27.1	7.89	2.66	1.30	.58	.35
MAX	3.8	10	138	111	521	399	49	14	4.1	1.8	.76	.47
MIN	.48	.97	1.4	4.5	27	34	15	4.1	1.8	.80	.44	.22
AC-FT	50	101	1060	1410	8430	7830	1610	485	158	80	35	21
CAL YR 1974 TOTAL	14361.48											
WTR YR 1975 TOTAL	10722.82											
MEAN 39.3												
MAX 1360												
MIN .48												
AC-FT 28490												
MIN .22												
AC-FT 21270												

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
12-3	1645	6.03	533	3-21	1500	7.09	908
2-8	1830	6.93	842	3-25	0030	6.10	549
2-12	2315	6.95	850				

## 11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.

LOCATION.--Lat 38°41'55", long 122°57'25", in Tzabaco Grant, Sonoma County, on left bank pier of bridge 0.3 mi (0.5 km) downstream from Pena Creek, and 3 mi (5 km) west of Geyserville.

DRAINAGE AREA.--162 mi<sup>2</sup> (420 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 159.40 ft (48.585 m) above mean sea level. Prior to Oct. 1, 1964, at datum 1.00 ft (0.305 m) higher.

AVERAGE DISCHARGE.--16 years, 345 ft<sup>3</sup>/s (9.770 m<sup>3</sup>/s), 250,000 acre-ft/yr (308 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 14,600 ft<sup>3</sup>/s (413 m<sup>3</sup>/s) Feb. 12 (gage height, 12.63 ft or 3.850 m); minimum daily, 0.50 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) Sept. 30.  
Period of record: Maximum discharge, 32,400 ft<sup>3</sup>/s (918 m<sup>3</sup>/s) Jan. 31, 1963 (gage height, 17.50 ft or 5.334 m, present datum); no flow at times.

REMARKS.--Records good. No regulation; small diversion above station for orchard irrigation of about 1,200 acres (4.86 km<sup>2</sup>) in summer.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	8.2	13	135	1930	485	485	125	37	12	3.2	1.2
2	2.0	7.2	75	117	1890	831	412	118	36	11	2.9	1.2
3	2.0	6.2	1080	104	967	608	377	114	34	12	2.5	1.2
4	2.1	5.5	450	100	1230	561	408	111	32	12	2.2	1.2
5	2.5	6.0	159	96	808	551	402	105	28	12	1.9	1.2
6	2.1	5.6	99	643	971	549	352	101	27	12	1.7	1.2
7	1.0	6.4	75	358	1810	2480	319	97	28	11	1.5	1.2
8	1.2	9.5	63	511	3380	2230	305	94	28	9.5	1.3	1.2
9	1.2	11	56	339	5110	1580	283	91	27	8.9	1.2	1.2
10	1.2	9.5	50	296	3760	1330	257	87	24	11	1.1	1.2
11	1.2	8.8	47	229	1780	1010	234	86	24	8.7	1.0	1.2
12	1.2	8.2	46	185	6760	796	220	81	23	7.7	1.1	1.2
13	1.5	9.1	45	163	7530	705	204	78	22	7.3	1.1	1.2
14	1.3	8.6	44	145	2710	609	192	76	20	7.5	1.1	1.2
15	1.3	8.6	54	126	1720	763	186	76	23	8.6	1.1	1.2
16	1.2	8.6	50	110	1300	1240	180	73	22	11	1.1	1.3
17	1.2	8.6	46	96	1050	1230	170	71	20	15	1.1	1.3
18	1.2	9.1	43	88	896	2870	163	69	23	13	1.1	1.4
19	1.2	11	42	82	1060	2770	152	65	23	11	1.2	1.4
20	1.2	11	40	75	1030	1840	145	60	23	9.2	1.0	1.3
21	1.2	63	39	71	794	4540	138	60	19	8.5	1.1	1.1
22	1.2	49	39	66	691	4390	132	57	18	8.0	1.3	1.0
23	1.3	27	37	62	618	2510	133	54	21	8.6	1.4	.95
24	2.0	18	36	89	580	2080	308	51	20	8.0	1.4	.86
25	2.1	25	35	54	549	3160	267	49	20	7.0	1.3	.80
26	2.1	22	35	48	514	1930	183	47	19	6.3	1.3	.70
27	2.5	18	975	45	464	1450	161	45	17	5.6	1.3	.65
28	19	16	1600	43	445	1110	148	43	16	5.1	1.2	.60
29	20	14	379	42	---	872	138	42	16	4.5	1.2	.55
30	13	14	224	41	---	708	132	40	14	4.0	1.2	.50
31	10	---	166	802	---	595	---	39	---	3.6	1.2	---
TOTAL	103.6	432.7	6142	5331	52347	48383	7186	2305	704	279.6	44.3	32.41
MEAN	3.34	14.4	198	172	1870	1561	240	74.4	23.5	9.02	1.43	1.08
MAX	20	63	1600	802	7530	4540	485	125	37	15	3.2	1.4
MIN	1.0	5.5	13	41	445	485	132	39	14	3.6	1.0	.50
AC-FT	205	858	12180	10570	103800	95970	14250	4570	1400	595	88	64

CAL YR 1974 TOTAL 169891.70 MEAN 465 MAX 19400 MIN .80 AC-FT 337000  
WTR YR 1975 TOTAL 123290.61 MEAN 338 MAX 7530 MIN .50 AC-FT 244500

Peak discharge (base, 8,200 ft<sup>3</sup>/s).--Feb. 12 (1700) 14,600 ft<sup>3</sup>/s (12.63 ft); Mar. 21 (1815) 11,100 ft<sup>3</sup>/s (11.13 ft).

## RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

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

Water temperatures: March 1964 to current year.

Sediment records: March 1964 to current year.

Turbidity: Water years 1964 to current year (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 25.0°C June 4, 9, 13; minimum, 5.5°C Jan. 31.

Sediment concentrations: Maximum daily, 2,840 mg/l Feb. 9; minimum daily, 1 mg/l Dec. 25, Jan. 27, 28.

Sediment discharge: Maximum daily, 85,300 tons (77,400 tonnes) Feb. 12; minimum daily, 0.01 ton

(0.01 tonne) on many days during October, August, and September.

Period of record:

Water temperatures: Maximum, 26.5°C Aug. 11, 1971, Aug. 23, 1974; minimum (1964-66, 1967 to current year),

3.5°C Jan. 3, 1974.

Sediment concentrations: Maximum daily, 15,000 mg/l (estimated) Dec. 22, 1964; minimum daily, no flow for many days in 1964, 1966, 1970-73.

Sediment discharge: Maximum daily, 830,000 tons (753,000 tonnes), estimated, Dec. 22, 1964; minimum daily, 0 tons (0 tonnes) on many days in 1964, 1966, 1968-73.

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS 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)	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)
DEC.											
04...	1045	478	12	50	16	7.5	7.9	.9	77	--	60
FEB.											
04...	1200	1230	14	70	12	5.9	5.7	1.0	65	--	50
APR.											
30...	1055	132	17	20	20	9.5	9.7	.8	114	0	91
JUNE											
23...	1125	21	--	--	--	--	--	--	--	--	111

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDEd KJEL. NITRO- GEN (N) (MG/L)
DEC.											
04...	13	5.3	.1	.68	.66	.04	.03	.42	.26	.46	.17
FEB.											
04...	7.1	3.5	.1	.20	.14	.06	.03	.25	.23	.31	.05
APR.											
30...	13	4.0	.1	.08	.07	.00	.00	.13	.06	.13	.07
JUNE											
23...	--	--	.2	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
DEC.											
04...	.29	1.1	.23	.06	.02	104	.14	134	71	8	19
FEB.											
04...	.26	.51	.13	.03	.01	82	.11	272	54	1	18
APR.											
30...	.06	.21	.01	.12	.04	131	.18	46.7	89	0	19
JUNE											
23...	--	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDEd ORGANIC CARBON (C) (MG/L)
DEC.											
04...	.4	160	7.3	10.5	10.4	93	6.2	--	--	5.1	1.1
FEB.											
04...	.3	121	7.3	8.5	11.2	95	5.2	210	160	4.0	--
APR.											
30...	.4	200	7.5	14.0	10.5	102	5.8	88	812	.0	.1
JUNE											
23...	--	243	7.3	19.0	9.7	104	--	--	--	--	--

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

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ARSENIC	TOTAL ARSENIC IN BOTTOM MATERIAL	DIS-SOLVED BORON (B)	TOTAL CADMIUM	TOTAL CADMIUM IN BOTTOM MATERIAL	TOTAL CHROMIUM	TOTAL CHROMIUM IN BOTTOM MATERIAL	TOTAL COPPER
		(UG/L)	(UG/G)	(UG/L)	(UG/L)	(UG/G)	(UG/L)	(UG/G)	(UG/L)
DEC. 04...	1045	4	3	230	<10	1	20	39	<10
FEB. 04...	1200	6	4	70	<10	<1	40	40	30
APR. 30...	1055	0	4	180	<10	<1	0	21	<10
JUNE 23...	1125	1	6	340	--	--	--	--	--

DATE	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
DEC. 04...	17	<100	10	<.1	<.1	.1	110	36
FEB. 04...	15	<100	10	.1	.2	.2	50	21
APR. 30...	120	6	10	.0	.0	.0	0	27
JUNE 23...	--	3	10	.0	--	.2	--	--

[illegible]

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	15.0	-- 10.0	19.0	-- 14.0	23.0	-- 18.5	22.5	-- 17.5	22.5	-- 19.5	21.5	-- 20.0
2	14.0	-- 10.0	19.5	-- 14.0	23.0	-- 18.5	22.5	-- 17.5	22.5	-- 20.0	21.5	-- 20.0
3	14.0	-- 11.0	17.0	-- 13.0	24.0	-- 18.0	22.5	-- 17.5	23.0	-- 20.5	22.0	-- 20.0
4	12.5	-- 10.0	17.0	-- 12.0	25.0	-- 19.0	21.0	-- 18.0	23.0	-- 20.5	22.0	-- 20.0
5	12.0	-- 10.0	18.0	-- 12.0	24.0	-- 19.0	23.5	-- 17.5	22.5	-- 20.5	22.0	-- 20.0
6	12.5	-- 10.0	19.0	-- 13.0	24.0	-- 19.0	24.0	-- 18.0	22.5	-- 20.5	22.0	-- 20.5
7	13.0	-- 9.5	19.5	-- 13.5	23.5	-- 18.5	23.5	-- 19.0	22.0	-- 20.5	22.0	-- 20.0
8	15.5	-- 9.5	20.5	-- 14.5	24.5	-- 18.5	23.5	-- 18.5	--	--	20.5	-- 20.0
9	15.5	-- 9.5	20.0	-- 15.5	25.0	-- 19.0	23.5	-- 19.0	-- 23.0	--	22.0	-- 19.5
10	15.5	-- 10.5	19.0	-- 15.5	24.5	-- 19.0	23.5	-- 18.5	--	--	20.0	-- 19.5
11	16.5	-- 11.0	21.0	-- 15.0	23.5	-- 19.0	23.5	-- 18.5	--	--	21.5	-- 19.0
12	17.0	-- 11.0	21.5	-- 15.5	24.5	-- 19.0	24.0	-- 18.5	--	--	21.5	-- 19.0
13	16.0	-- 12.5	22.0	-- 16.5	25.0	-- 19.5	23.5	-- 18.5	--	--	22.0	-- 19.0
14	15.5	-- 11.5	18.5	-- 16.5	24.0	-- 20.0	23.5	-- 18.5	--	--	21.5	-- 19.0
15	14.0	-- 10.0	21.0	-- 15.5	23.0	-- 19.5	20.5	-- 19.0	--	--	22.0	-- 19.0
16	13.0	-- 10.0	21.5	-- 15.0	24.0	-- 19.0	23.5	-- 19.5	--	--	21.0	-- 18.0
17	15.5	-- 9.0	22.5	-- 16.0	23.0	-- 18.0	23.5	-- 19.5	20.5	-- 19.0	21.0	-- 19.0
18	16.0	-- 10.5	22.5	-- 17.0	22.5	-- 17.0	23.0	-- 19.5	20.0	-- 19.5	21.0	-- 19.0
19	17.0	-- 12.0	21.0	-- 17.0	22.5	-- 17.5	24.0	-- 19.5	21.5	-- 19.5	21.0	-- 19.0
20	18.0	-- 12.5	19.5	-- 14.0	23.0	-- 17.5	23.5	-- 19.5	21.5	-- 20.0	21.0	-- 19.0
21	18.0	-- 13.0	21.0	-- 15.0	22.5	-- 18.0	23.5	-- 19.5	22.5	-- 20.5	21.0	-- 19.0
22	16.0	-- 13.0	21.5	-- 15.5	22.5	-- 17.5	23.5	-- 19.0	22.0	-- 21.0	21.5	-- 19.0
23	14.5	-- 12.5	22.5	-- 16.5	23.0	-- 17.5	24.0	-- 19.0	22.0	-- 21.5	21.5	-- 18.5
24	15.0	-- 13.0	22.5	-- 16.5	21.5	-- 17.5	23.5	-- 19.5	22.5	-- 21.0	-- 20.5	--
25	16.0	-- 10.5	22.5	-- 16.5	22.5	-- 17.0	24.0	-- 19.5	23.0	-- 21.5	--	--
26	16.5	-- 10.5	22.5	-- 17.0	23.5	-- 17.5	23.5	-- 20.5	21.5	-- 20.5	--	--
27	18.0	-- 11.5	23.5	-- 17.5	23.0	-- 17.5	23.5	-- 20.5	20.5	-- 20.0	--	--
28	18.0	-- 12.0	24.0	-- 18.0	23.5	-- 17.5	23.0	-- 20.0	20.5	-- 19.5	--	--
29	19.0	-- 13.0	24.5	-- 18.5	23.5	-- 17.5	23.0	-- 19.5	21.0	-- 19.5	--	--
30	19.0	-- 13.5	24.5	-- 19.0	23.0	-- 17.5	22.5	-- 19.0	21.5	-- 19.5	--	--
31	--	--	23.5	-- 19.0	--	--	22.5	-- 19.5	21.5	-- 19.5	--	--
MONTH	19.0	-- 9.0	24.5	-- 12.0	25.0	-- 17.0	24.0	-- 17.5	--	--	--	--

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1.4	14	.05	8.2	16	.35	13	14	.49
2	2.0	12	.06	7.2	15	.29	75	115	23
3	2.0	10	.05	6.2	10	.17	1080	1220	6990
4	2.1	8	.05	5.5	7	.10	450	470	571
5	2.5	6	.04	6.0	5	.08	159	55	24
6	2.1	4	.02	5.6	4	.06	99	25	6.7
7	1.0	2	.01	6.4	8	.14	75	19	3.8
8	1.2	14	.05	9.5	8	.21	63	14	2.4
9	1.2	8	.03	11	7	.21	56	11	1.7
10	1.2	5	.02	9.5	6	.15	50	10	1.4
11	1.2	2	.01	8.8	5	.12	47	9	1.1
12	1.2	4	.01	8.2	4	.09	46	6	.75
13	1.5	8	.03	9.1	4	.10	45	4	.49
14	1.3	13	.05	8.6	5	.12	44	2	.24
15	1.3	9	.03	8.6	7	.16	54	6	.87
16	1.2	7	.02	8.6	9	.21	50	5	.68
17	1.2	5	.02	8.6	7	.16	46	4	.50
18	1.2	4	.01	9.1	6	.15	43	3	.35
19	1.2	5	.02	11	5	.15	42	3	.34
20	1.2	6	.02	11	5	.15	40	4	.43
21	1.2	7	.02	63	30	5.1	39	5	.53
22	1.2	9	.03	49	38	5.0	39	4	.42
23	1.3	8	.03	27	7	.51	37	2	.20
24	2.0	6	.03	18	7	.34	36	2	.19
25	2.1	6	.03	25	6	.41	35	1	.09
26	2.1	5	.03	22	6	.36	35	2	.19
27	2.5	5	.03	18	5	.24	975	345	1900
28	19	35	1.8	16	12	.52	1600	362	2000
29	20	22	1.2	14	17	.64	379	170	174
30	13	19	.67	14	25	.95	224	110	67
31	10	17	.46	---	---	---	166	72	32
MONTH	103.6	---	4.93	432.7	---	17.24	6142	---	11804.86

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	135	34	12	1930	487	3670	485	25	36
2	117	10	3.2	1890	415	2280	831	45	103
3	104	7	2.0	967	260	679	608	23	38
4	100	8	2.2	1230	327	1160	561	20	30
5	96	8	2.1	808	152	332	551	17	25
6	643	215	502	971	208	746	549	14	21
7	358	103	100	1810	562	2750	2480	461	3750
8	511	156	216	3380	1380	19100	2230	436	2630
9	339	40	37	5110	2840	40500	1580	310	1320
10	296	18	14	3760	1430	16200	1330	204	733
11	229	17	11	1780	350	1680	1010	140	382
12	185	15	7.5	6760	2710	85300	796	100	215
13	163	16	7.0	7530	2530	63400	705	70	133
14	145	17	6.7	2710	590	4660	609	45	74
15	126	13	4.4	1720	245	1140	763	88	327
16	110	10	3.0	1300	152	534	1240	162	605
17	96	9	2.3	1050	110	312	1230	186	955
18	88	8	1.9	896	88	213	2870	760	5880
19	82	7	1.6	1060	123	389	2770	500	3840
20	75	5	1.0	1030	74	206	1840	220	1090
21	71	3	.58	794	45	96	4540	1540	32500
22	66	2	.36	691	39	73	4390	1220	15700
23	62	2	.33	618	33	55	2510	349	2480
24	59	2	.32	580	26	41	2080	73	467
25	54	2	.29	549	18	27	3160	682	6190
26	48	2	.26	514	11	15	1930	320	1670
27	45	1	.12	464	12	15	1450	225	881
28	43	1	.12	445	21	25	1110	160	480
29	42	2	.23	---	---	---	872	110	259
30	41	2	.22	---	---	---	708	74	141
31	802	248	1290	---	---	---	595	45	72
MONTH	5331	---	2229.73	52347	---	245598	48383	---	83027
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	485	35	46	125	4	1.4	37	6	.60
2	412	30	.33	118	3	.96	36	6	.58
3	377	25	.25	114	3	.92	34	6	.55
4	408	41	45	111	3	.90	32	5	.43
5	402	32	.35	105	3	.85	28	7	.53
6	352	27	26	101	3	.82	27	12	.87
7	319	25	22	97	3	.79	28	12	.91
8	305	23	19	94	4	1.0	28	12	.91
9	283	21	16	91	5	1.2	27	11	.80
10	257	19	13	87	5	1.2	24	11	.71
11	234	17	11	86	4	.93	24	11	.71
12	220	16	9.5	81	4	.87	23	10	.62
13	204	13	7.2	78	4	.84	22	9	.53
14	192	11	5.7	76	4	.82	20	9	.49
15	186	9	4.5	76	3	.62	23	9	.56
16	180	7	3.4	73	3	.59	22	9	.53
17	170	6	2.8	71	4	.77	20	9	.49
18	163	6	2.6	69	6	1.1	23	8	.50
19	152	6	2.5	65	10	1.8	23	8	.50
20	145	6	2.3	60	8	1.3	23	7	.43
21	138	6	2.2	60	7	1.1	19	7	.36
22	132	6	2.1	57	6	.92	18	9	.44
23	133	5	1.8	54	6	.87	21	11	.62
24	308	36	41	51	6	.83	20	9	.49
25	267	36	27	49	6	.79	20	7	.38
26	183	16	7.9	47	6	.76	19	5	.26
27	161	8	3.5	45	6	.73	17	5	.23
28	148	5	2.0	43	6	.70	16	6	.26
29	138	4	1.5	42	6	.68	16	6	.26
30	132	4	1.4	40	6	.65	14	7	.26
31	---	---	---	39	6	.63	---	---	---
MONTH	7186	---	421.9	2305	---	28.34	704	---	15.81

## RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	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	3	.10	3.2	11	.10	1.2	4	.01	
2	11	6	.18	2.9	10	.08	1.2	4	.01	
3	12	6	.19	2.5	9	.06	1.2	4	.01	
4	12	5	.16	2.2	8	.05	1.2	5	.02	
5	12	5	.16	1.9	8	.04	1.2	7	.02	
6	12	7	.23	1.7	8	.04	1.2	10	.03	
7	11	10	.30	1.5	9	.04	1.2	11	.04	
8	9.5	13	.33	1.3	12	.04	1.2	13	.04	
9	8.9	13	.31	1.2	19	.06	1.2	16	.05	
10	11	12	.36	1.1	15	.04	1.2	15	.05	
11	8.7	11	.26	1.0	13	.04	1.2	14	.05	
12	7.7	11	.23	1.1	11	.03	1.2	13	.04	
13	7.3	9	.18	1.1	9	.03	1.2	12	.04	
14	7.5	7	.14	1.1	8	.02	1.2	12	.04	
15	8.6	10	.23	1.1	7	.02	1.2	12	.04	
16	11	12	.36	1.1	6	.02	1.3	15	.05	
17	15	17	.69	1.1	5	.01	1.3	15	.05	
18	13	15	.53	1.1	4	.01	1.4	15	.06	
19	11	11	.33	1.2	3	.01	1.4	12	.05	
20	9.2	7	.17	1.0	4	.01	1.3	9	.03	
21	8.5	6	.14	1.1	4	.01	1.1	6	.02	
22	8.0	7	.15	1.3	5	.02	1.0	4	.01	
23	8.6	8	.19	1.4	5	.02	.95	4	.01	
24	8.0	9	.19	1.4	6	.02	.86	4	.01	
25	7.0	11	.21	1.3	6	.02	.80	4	.01	
26	6.3	11	.19	1.3	6	.02	.70	4	.01	
27	5.6	11	.17	1.3	5	.02	.65	6	.01	
28	5.1	11	.15	1.2	5	.02	.60	8	.01	
29	4.5	11	.13	1.2	5	.02	.55	9	.01	
30	4.0	11	.12	1.2	4	.01	.50	9	.01	
31	3.6	11	.11	1.2	4	.01	---	---	---	
MONTH	279.6	---	7.19	44.3	---	.94	32.41	---	.84	
YEAR 123290.61			343156.78							

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		INSTAN- TANEOUS DIS- CHARGE (CFS)		SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (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
DATE	TIME	TEMPER- ATURE (DEG C)						
JAN.								
08...	0940	10.0	644	192	334	--	--	--
09...	0945	7.0	335	45	41	--	--	--
FEB.								
04...	1320	8.5	1170	291	920	26	37	48
07...	0930	11.5	1800	564	2740	21	28	39
11...	1500	10.5	1650	275	1230	23	34	44
13...	1005	13.5	7570	2180	44600	14	21	28
17...	1400	10.0	1030	108	301	--	--	--
MAR.								
18...	1130	12.0	2960	751	6000	18	24	33
20...	1620	12.5	1690	191	872	22	30	40
22...	1010	10.0	4350	1260	14800	13	19	26
25...	1515	15.0	2720	570	4190	24	29	38
		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
DATE								
JAN.								
08...	--	--	84	94	99	100	--	--
09...	--	--	90	94	100	--	--	--
FEB.								
04...	58	66	71	76	84	99	100	--
07...	52	67	79	92	99	100	--	--
11...	55	64	71	82	93	99	100	--
13...	36	47	61	84	98	100	--	--
17...	--	--	78	90	98	100	--	--
MAR.								
18...	43	54	63	76	96	100	--	--
20...	51	60	66	74	84	96	100	--
22...	35	48	63	83	99	100	--	--
25...	48	60	69	84	98	100	--	--



11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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
SEP.								
16...	1235	20.5	1	1.3	--	--	1	6
16...	1240	20.5	1	1.3	1	3	5	11
16...	1245	20.5	1	1.3	--	1	1	2
16...	1250	20.5	1	1.3	1	2	4	5
16...	1255	20.5	1	1.3	1	2	7	11

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
SEP.								
16...	15	22	34	55	89	100	--	--
16...	17	29	52	79	90	92	100	--
16...	3	6	12	18	29	44	69	100
16...	5	13	34	59	83	100	--	--
16...	12	18	43	74	94	100	--	--

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	SUS- PENDEO SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)	DATE	TIME	SUS- PENDEO SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
OCT.				FEB.			
01...	--	16	2	03...	--	258	120
04...	--	11	2	04...	--	291	140
07...	--	2	1	07...	--	564	200
08...	--	33	4	10...	--	1500	350
11...	--	2	1	11...	--	275	110
14...	--	20	2	13...	--	2180	400
18...	--	4	2	17...	--	108	40
24...	--	6	1	21...	--	44	20
30...	--	9	5	25...	--	16	6
NOV.				28...	--	22	2
02...	--	15	5	MAR.			
06...	--	4	4	03...	--	22	7
07...	--	8	3	06...	--	14	5
09...	--	7	2	10...	--	200	75
13...	--	4	1	14...	--	46	15
16...	--	9	2	18...	--	751	250
19...	--	5	1	20...	--	191	60
23...	--	7	1	22...	--	1260	300
27...	--	5	2	25...	--	570	200
30...	--	25	7	29...	--	110	40
DEC.				31...	--	41	15
03...	--	952	500	APR.			
04...	--	159	120	03...	--	24	6
05...	--	56	20	07...	--	25	5
10...	--	10	2	12...	--	15	5
14...	--	2	1	16...	--	7	1
18...	--	3	1	18...	--	6	1
21...	--	5	2	24...	--	20	3
23...	--	2	1	26...	--	14	3
26...	--	2	1	29...	--	4	1
30...	--	115	35	30...	--	4	1
JAN.				MAY			
02...	--	8	2	03...	--	3	1
04...	--	8	3	05...	--	3	1
08...	--	192	90	09...	--	5	1
09...	--	36	25	13...	--	4	1
11...	--	17	9	16...	--	3	1
13...	--	17	10	22...	--	6	1
16...	--	8	2	27...	--	6	1
22...	--	2	1	31...	--	6	1
25...	--	2	1	JUNE			
27...	--	1	1	03...	--	5	2
30...	--	2	1	04...	--	5	1
				11...	--	11	2

## RUSSIAN RIVER BASIN

11465200 DRY CREEK NEAR GEYSERVILLE, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	SUS- PENDE SEDIM- ENT (MG/L)	TUR- BID- ITY (JTU)
JUNE			
14...	--	9	3
16...	--	9	1
21...	--	7	1
23...	--	11	1
26...	--	5	1
30...	--	7	1
JULY			
01...	--	3	1
02...	--	6	1
05...	--	5	1
08...	--	13	1
12...	--	11	1
14...	--	7	1
18...	--	15	1
21...	--	6	1
25...	--	11	1
28...	--	11	1
31...	--	11	2
AUG.			
05...	--	8	1
09...	--	19	1
11...	--	13	1
15...	--	7	1
19...	--	3	1
20...	--	4	1
25...	--	6	1
28...	--	5	1
SEP.			
01...	--	4	1
06...	--	10	1
09...	--	16	2
13...	--	12	2
20...	--	9	1
22...	--	4	1
26...	--	4	1
29...	--	9	1

## RUSSIAN RIVER BASIN

261

11466500 LAGUNA DE SANTA ROSA NEAR GRATON, CALIF.

LOCATION.--Lat 38°27'10", long 122°50'03", in Molinos Grant, Sonoma County, on downstream side of left bank pier of highway bridge, 0.2 mi (0.3 km) downstream from Santa Rosa Creek, and 2 mi (3 km) northeast of Graton.

PERIOD OF RECORD.--February 1940 to September 1949 (contents only), October 1964 to current year in reports of Geological Survey. October 1949 to September 1964 available in files of district office.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Dec. 31, 1958, at site 75 ft (23 m) downstream at same datum.

EXTREMES.--Current year: Maximum elevation, 63.72 ft (19.422 m) Feb. 13.  
Period of record: Maximum elevation, 73.3 ft (22.34 m) Dec. 23, 1964.

REMARKS.--The laguna is a natural water channel and overflow basin connecting Santa Rosa Creek, Mark West Creek, and other smaller creeks with Russian River. During floods directions of flow may be either to or from Russian River and the laguna acts as a natural regulator of floods on lower Russian River. Figures given herein represent elevations above 55.0 ft (16.76 m).

ELEVATION, IN FEET ABOVE MEAN SEA LEVEL, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1					---	---						
2					---	---						
3					---	---						
4					---	---						
5					---	---						
6					---	55.10						
7					---	---						
8					56.20	---						
9					57.20	---						
10					56.00	---						
11					---	---						
12					61.40	---						
13					62.50	---						
14					57.80	---						
15					55.20	---						
16					---	---						
17					---	---						
18					---	---						
19					---	---						
20					---	---						
21					---	58.50						
22					---	58.40						
23					---	56.00						
24					---	55.40						
25					---	---						
26					---	---						
27					---	---						
28					---	---						
29					---	---						
30					---	---						
31					---	---						
MEAN					---	---						
MAX					---	---						
MIN					---	---						

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.  
(National stream-quality accounting network station)

LOCATION.--Lat 38°30'31", long 122°55'36", in NE¼SE¼ sec.26, T.8 N., R.10 W., Sonoma County, on right bank at downstream side of Hacienda bridge, 0.1 mi (0.2 km) upstream from Hobson Creek, and 3.8 mi (6.1 km) east of Guerneville. Prior to Oct. 24, 1974, at site 0.7 mi (1.1 km) downstream.

DRAINAGE AREA.--1,338 mi<sup>2</sup> (3,465 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Altitude of gage is 20 ft (6.1 m), from topographic map. Prior to Oct. 1, 1954, nonrecording gage at bridge 5.3 mi (8.5 km) downstream at datum 8.58 ft (2.615 m) lower. Oct. 1, 1954, to Oct. 23, 1974, at site 0.7 mi (1.1 km) downstream at datum 2.75 ft (0.838 m) lower. Supplementary water-stage recorder 2.1 mi (3.4 km) downstream used during periods of low flow 1948-54.

AVERAGE DISCHARGE.--36 years, 2,363 ft<sup>3</sup>/s (66.92 m<sup>3</sup>/s), 1,712,000 acre-ft/yr (2.11 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 67,300 ft<sup>3</sup>/s (1,910 m<sup>3</sup>/s) Feb. 13 (gage height, 37.97 ft or 11.573 m); minimum daily, 124 ft<sup>3</sup>/s (3.51 m<sup>3</sup>/s) Aug. 2, 3.

Period of record: Maximum discharge, 93,400 ft<sup>3</sup>/s (2,650 m<sup>3</sup>/s) Dec. 23, 1964 (gage height, 49.6 ft or 15.12 m, from floodmarks, site and datum then in use); maximum gage height, 49.7 ft (15.15 m) Dec. 23, 1955, from floodmarks, site and datum then in use; minimum daily discharge, 52 ft<sup>3</sup>/s (1.47 m<sup>3</sup>/s) May 30, 1964.

REMARKS.--Records good. Many diversions above station for irrigation of about 29,000 acres (117 km<sup>2</sup>). Flow also affected by diversion into basin (see REMARKS for East Fork Russian River stations), since November 1958 by storage in Lake Mendocino 77 mi (124 km) upstream (see sta 11461800) and by diversion at Wohler pumping plant beginning in May 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	358	434	254	789	5110	1960	4160	1180	319	226	129	208
2	358	415	287	686	14200	2810	3040	1180	347	185	124	207
3	353	407	1010	613	8930	2710	2590	1210	356	136	124	198
4	348	398	3920	579	10100	2250	2480	1210	364	175	129	189
5	353	394	1500	564	8480	2080	2560	1170	341	191	133	187
6	338	334	830	1500	8350	2210	2400	1140	322	197	140	206
7	336	290	612	4290	12400	9290	2110	1120	317	202	135	216
8	328	319	504	3030	16700	14900	2030	1110	321	192	138	253
9	331	311	431	3570	30100	10700	2000	1110	343	179	140	277
10	336	308	380	2270	25500	8250	1800	1140	336	167	145	280
11	343	293	362	1790	13700	7400	1680	1110	305	154	168	314
12	342	281	364	1380	19900	6190	1610	886	312	160	188	268
13	339	279	364	1110	62100	4480	1560	784	293	171	185	244
14	339	276	368	954	33700	3750	1500	713	283	186	182	252
15	335	276	386	838	14700	3280	1480	689	277	192	172	260
16	333	273	415	761	9780	6980	1470	643	277	207	166	265
17	334	266	405	694	7480	5640	1370	610	272	212	166	234
18	329	270	367	642	6100	18600	1300	581	244	196	172	234
19	328	271	339	603	5350	20500	1200	548	253	187	178	238
20	329	257	318	566	8160	13300	1190	513	253	178	184	242
21	333	281	309	538	5860	15600	1150	461	252	170	183	240
22	333	334	316	556	4390	41100	1110	373	245	164	183	234
23	345	335	319	721	3520	22200	1090	443	252	157	182	232
24	373	306	314	762	3080	15400	1300	437	254	148	183	235
25	373	320	312	777	2730	22300	2120	419	258	133	183	231
26	368	313	309	782	2440	16400	1650	406	247	130	180	226
27	363	290	1900	773	2220	12000	1420	393	243	130	186	227
28	486	271	7780	725	2050	10200	1310	319	240	131	207	236
29	552	261	2760	619	---	8210	1240	313	238	132	210	240
30	479	254	1470	587	---	6650	1220	323	240	132	207	246
31	444	---	991	789	---	5900	---	311	---	132	208	---
TOTAL	11239	9317	30196	34858	347130	323240	53140	22845	8604	5252	5210	7119
MEAN	363	311	974	1124	12400	10430	1771	737	287	169	168	237
MAX	552	434	7780	4290	62100	41100	4160	1210	364	226	210	314
MIN	328	254	254	538	2050	1960	1090	311	238	130	124	187
AC-FT	22290	18480	59890	69140	688500	641100	105400	45310	17070	10420	10330	14120
CAL YR 1974	TOTAL	1091064	MEAN	2989	MAX	61600	MIN	180	AC-FT	2164000		
WTR YR 1975	TOTAL	858150	MEAN	2351	MAX	62100	MIN	124	AC-FT	1702000		

Peak discharge (base, 23,000 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-9	0845	26.93	34,200	3-22	0730	30.71	44,400
2-13	1145	37.97	67,300	3-25	1930	23.59	26,000
3-18	1945	22.84	24,800				

## 11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to September 1965, water years 1966-67, 1969-74 (partial-record station), October 1974 to current year. Published as "at Guerneville" in 1961-65.  
 Specific conductance: October 1973 to current year.  
 Water temperatures: January 1964 to current year.  
 Sediment records: Water years 1966-67 (partial-record station), April 1967 to current year.  
 Turbidity: Water years 1967 to current year (partial-record station).

## EXTREMES.--Current year:

Specific conductance: Maximum daily, 335 micromhos Dec. 12; minimum daily, 78 micromhos Feb. 13.  
 Water temperatures: Maximum, 28.0°C July 24-26; minimum, 5.5°C Jan. 29.  
 Sediment concentrations: Maximum daily, 1,440 mg/l Feb. 13; minimum daily, 5 mg/l Dec. 23-25.  
 Sediment discharge: Maximum daily, 239,000 tons (217,000 tonnes) Feb. 13; minimum daily, 3.1 tons (2.8 tonnes) Aug. 10.

## Period of record:

Specific conductance: Maximum daily, 400 micromhos July 8, 9, 1974; minimum daily, 57 micromhos Nov 4, 1973.  
 Water temperatures: Maximum, 29.5°C June 26, 1973; minimum (1965-71, 1974 to current year), 4.5°C Dec. 15, 1967, Jan. 12, 1968.  
 Sediment concentrations (1969 to current year): Maximum daily, 2,350 mg/l Jan. 16, 1974; minimum daily, 3 mg/l on several days in 1972 and 1973.  
 Sediment discharge (1969 to current year): Maximum daily, 316,000 tons (287,000 tonnes) Jan. 16, 1974; minimum daily, 1.3 tons (1.2 tonnes) Sept. 23, 1972.

REMARKS.--The letter "A" following a data indicates chemical-quality data furnished by California Department of Water Resources; specific conductance data also furnished by California Department of Water Resources. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	ALKA- LINIT- Y AS CACO <sub>3</sub> (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT.											
10...A	1000	336	326	--	226	7.7	18.0	8.6	91	--	--
11...A	1220	343	349	111	264	8.1	17.5	--	--	15	30
NOV.											
11...A	1130	293	287	--	273	7.7	15.5	--	--	25	35
14...A	1030	276	276	--	275	7.4	14.0	8.8	85	--	--
DEC.											
12...A	0815	364	364	125	--	7.5	11.0	9.5	86	--	--
19...A	1300	339	332	--	280	7.8	9.0	--	--	815	24
JAN.											
07...A	1400	4290	3750	--	103	7.4	9.0	--	--	840	2000
09...A	1115	3570	3540	--	--	7.3	8.5	10.9	93	--	--
FEB.											
11...A	1400	13700	13500	63	157	7.2	--	--	--	190	290
14...A	1050	33700	33900	46	106	7.2	10.5	8.9	80	--	--
MAR.											
11...A	1340	7400	7470	--	160	7.8	12.5	--	--	250	876
12...A	0945	6190	6320	--	--	7.3	11.0	9.7	88	--	--
APR.											
10...A	1220	1800	1770	--	239	7.9	12.5	--	--	77	160
11...A	1000	1680	1690	--	244	7.4	13.0	9.8	92	--	--
MAY											
07...A	0945	1120	1120	102	--	7.6	16.0	9.0	91	--	--
12...A	1040	886	884	110	237	7.8	17.5	--	--	814	24
JUNE											
04...A	1315	364	345	--	--	7.8	24.5	8.3	--	--	--
09...A	1110	343	351	--	250	8.0	24.5	--	--	816	25
JULY											
11...A	1015	154	154	--	--	7.5	21.0	8.1	--	--	--
11...A	1315	154	152	--	262	8.2	25.0	--	--	83	816
21...A	1400	170	170	123	--	8.2	24.0	10.1	--	--	--
AUG.											
19...A	1045	178	172	109	258	8.0	22.0	--	--	83	812
26...A	1245	180	180	--	--	7.8	21.0	8.3	--	--	--
SEP.											
11...A	0945	314	280	100	--	7.9	19.0	8.4	--	--	--
22...A	1220	234	240	--	226	7.7	20.5	--	--	87	86

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



11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF TUNENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT.										
11...	.59	.40	150	155	.20	139	120	8	18	.5
NOV.										
11...	1.0	.52	--	--	--	--	--	--	--	--
DEC.										
12...	--	--	192	--	.26	189	136	11	--	--
19...	1.0	.30	--	--	--	--	--	--	--	--
JAN.										
07...	1.8	.35	--	--	--	--	--	--	--	--
FEB.										
11...	.97	.19	106	96	.14	3920	66	3	16	.3
14...	--	--	83	--	.11	7550	49	3	16	.3
MAR.										
11...	.61	.26	--	--	--	--	--	--	--	--
APR.										
10...	.95	.12	--	--	--	--	--	--	--	--
MAY										
07...	--	--	144	--	.20	435	105	2	--	--
12...	.63	.17	149	148	.20	356	110	4	16	.4
JUNE										
09...	1.2	.14	--	--	--	--	--	--	--	--
JULY										
11...	.47	.10	--	--	--	--	--	--	--	--
21...	--	--	164	--	.22	75.3	125	2	--	.4
AUG.										
19...	.23	.13	155	146	.21	74.5	120	6	16	.4
SEP.										
11...	--	--	140	--	.19	119	102	2	15	.4
22...	.45	.15	--	--	--	--	--	--	--	--

DATE	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	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL- PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.										
11...	264	8.1	17.5	6	--	--	1.7	15	30	2.9
NOV.										
11...	273	7.7	15.5	5	--	--	--	25	35	--
DEC.										
12...	--	7.5	11.0	6	9.5	86	7.7	--	--	--
19...	280	7.8	9.0	3	--	--	--	815	24	--
JAN.										
07...	103	7.4	9.0	300	--	--	--	840	2000	--
FEB.										
11...	157	7.2	--	100	--	--	7.8	190	290	6.3
14...	106	7.2	10.5	220	8.9	80	5.7	--	--	--
MAR.										
11...	160	7.8	12.5	70	--	--	--	250	876	--
APR.										
10...	239	7.9	12.5	15	--	--	--	77	160	--
MAY										
07...	--	7.6	16.0	7	9.0	91	5.0	--	--	--
12...	237	7.8	17.5	9	--	--	3.4	814	24	2.3
JUNE										
09...	250	8.0	24.5	15	--	--	--	816	25	--
JULY										
11...	262	8.2	25.0	15	--	--	--	83	816	--
21...	--	8.2	24.0	--	10.1	--	1.5	--	--	--
AUG.										
19...	258	8.0	22.0	9	--	--	2.1	83	812	7.4
SEP.										
11...	--	7.9	19.0	9	8.4	--	2.5	--	--	--
22...	226	7.7	20.5	5	--	--	--	87	86	--

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

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued  
 BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		PHYTOPLANKTON			
DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		..CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES			
OCT 11	1220	CHLOROPHYTA	GREEN ALGAE		
		..CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...HYDRODICTYACEAE			
		....PEDIASTRUM		390	13
		...SCENEDESMACEAE			
		....SCENEDESMUS		120	4
		..VOLVOCALES			
		...CHLAMYDOMONADACEAE			
		....CHLAMYDOMONAS		30	1
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		..BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCEAE			
		....CYCLOTELLA		300	10
		....MELOSIRA		210	7
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		210	7
		...CYMBELLACEAE			
		....CYMBELLA		390	13
		...DIATOMACEAE			
		....DIATOMA		30	1
		...FRAGILARIACEAE			
		....FRAGILARIA		120	4
		....SYNEDRA		480	16
		...GOMPHONEMACEAE			
		....GOMPHONEMA		30	1
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		390	13
		...NITZSCHACEAE			
		....NITZSCHIA		240	8
		TOTAL PHYTOPLANKTON		3000	
NOV 11	1130	CHLOROPHYTA	GREEN ALGAE		
		..CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...OOCYSTACEAE			
		....KIRCHNERIELLA		23	1
		...SCENEDESMACEAE			
		....SCENEDESMUS		370	16
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		..BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCEAE			
		....CYCLOTELLA		640	28
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....COCCONEIS		23	1
		...CYMBELLACEAE			
		....AMPHORA		120	5
		...DIATOMACEAE			
		....DIATOMA		69	3
		...FRAGILARIACEAE			
		....SYNEDRA		550	24
		...GOMPHONEMACEAE			
		....GOMPHONEMA		69	3
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		250	11
		....NEIDIUM		69	3
		...NITZSCHACEAE			
		....NITZSCHIA		140	6
		TOTAL PHYTOPLANKTON		2300	



11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued  
 BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		PHYTOPLANKTON			
DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		.CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES			
DEC 19	1300	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...SCENEDESMACEAE			
		....SCENEDESMUS		160	7
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		....CYCLOTELLA		120	5
		....MELOSIRA		120	5
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		23	1
		...CYMBELLACEAE			
		....CYMBELLA		120	5
		...FRAGILARIACEAE			
		....SYNEDRA		69	3
		...GOMPHONEMACEAE			
		....GOMPHONEMA		23	1
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		160	7
		...NITZSCHIACEAE			
		....NITZSCHIA		280	12
		CYANOPHYTA	BLUE-GREEN ALGAE		
		.MYXOPHYCEAE			
		..OSCILLATORIALES			
		...OSCILLATORIACEAE		1200	54
		....LYNGBYA			
		TOTAL PHYTOPLANKTON		2300	
JAN 7	1400	CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		....CYCLOTELLA		280	3
		....MELOSIRA		1000	11
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		190	2
		...COCCONEIS		190	2
		...RHOIACOSPHENIA		280	3
		...CYMBELLACEAE			
		....AMPHORA		94	1
		...CYMBELLA		280	3
		...EPITHEMIA		94	1
		...DIATOMACEAE			
		....DIATOMA		94	1
		...FRAGILARIACEAE			
		....SYNEDRA		280	3
		...GOMPHONEMACEAE			
		....GOMPHONEMA		470	5
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		940	10
		...PINNULARIA		94	1
		...NITZSCHIACEAE			
		....NITZSCHIA		850	9
		CYANOPHYTA	BLUE-GREEN ALGAE		
		.MYXOPHYCEAE			
		..OSCILLATORIALES			
		...OSCILLATORIACEAE		3900	41
		....OSCILLATORIA			
		TOTAL PHYTOPLANKTON		9400	
FEB 11	1400	CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		....MELOSIRA		230	46
		..PENNALES	PENNATE		
		...FRAGILARIACEAE			
		....SYNEDRA		120	25
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		64	13
		...NITZSCHIACEAE			
		....NITZSCHIA		83	17
		TOTAL PHYTOPLANKTON		490	

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		PHYTOPLANKTON			
DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		.CLASS .ORDER ...FAMILY ....GENUS .....SPECIES			
MAR 11	1340	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...SCENEDESMACEAE			
		....SCENEDESMUS		93	19
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		....MELOSIRA		160	33
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....RHOICOSPHENIA		25	5
		...FRAGILARIACEAE			
		....FRAGILARIA		25	5
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		120	24
		...NITZSCHIACEAE			
		....NITZSCHIA		49	10
		...SURIPELLACEAE			
		....SURIPELLA		25	5
TOTAL PHYTOPLANKTON			490		
APR 10	1220	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...SCENEDESMACEAE			
		....SCENEDESMUS		540	18
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		....CYCLOTELLA		30	1
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		30	1
		...FRAGILARIACEAE			
		....SYNEDRA		30	1
		...GOMPHONEMACEAE			
		....GOMPHONEMA		30	1
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		30	1
		...NITZSCHIACEAE			
		....NITZSCHIA		30	1
CYANOPHYTA	BLUE-GREEN ALGAE				
.MYXOPHYCEAE					
..CHROOCOCCALES					
...CHROOCOCCACEAE					
....ANACYSTIS		2200	73		
TOTAL PHYTOPLANKTON			3000		
MAY 12	1040	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...MICRACTINIACEAE			
		....GOLENKINIA		41	1
		...OOCYSTACEAE			
		....TETRAEDRON		41	1
		...SCENEDESMACEAE			
		....SCENEDESMUS		1100	27
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		....CYCLOTELLA		450	11
		....MELOSIRA		41	1
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		120	3
		...CYMBELLACEAE			
		....CYMBELLA		41	1
		...FRAGILARIACEAE			
....ASTERIONELLA		41	1		
....SYNEDRA		41	1		
...GOMPHONEMACEAE					
....GOMPHONEMA		120	3		
...NAVICULACEAE	NAVICULOID				
....NAVICULA		620	15		
...NITZSCHIACEAE					
....NITZSCHIA		1400	34		
TOTAL PHYTOPLANKTON			4100		

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.,--Continued  
 BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		PHYTOPLANKTON			
DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		..CLASS			
		..ORDER			
		...FAMILY			
		....GENUS			
		.....SPECIES			
JUN 9	1110	CHLOROPHYTA	GREEN ALGAE		
		..CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...OOCYSTACEAE			
		....ANKISTRODESMUS		89	1
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		..BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		....CYCLOTELLA		2800	32
		....MELOSIRA		270	3
		..PENNATAES	PENNATE		
		...ACHNANTHACEAE			
		...ACHNANTHES		450	5
		...COCCONEIS		89	1
		...CYMBELLACEAE			
		...CYMBELLA		89	1
		...FRAGILARIACEAE			
		...FRAGILARIA		270	3
		...GOMPHONEMATACEAE			
		...GOMPHONEHA		360	4
		...NAVICULACEAE	NAVICULOID		
		...NAVICULA		1800	20
		...NITZSCHIAEAE			
		...NITZSCHIA		1100	12
		...TABELLARIACEAE			
		...TETRACYCLUS		89	1
		CYANOPHYTA	BLUE-GREEN ALGAE		
		..HYXOPHYCEAE			
		..CHROOCOCCALES			
		...CHROOCOCCACEAE			
		....ANACYSTIS		1400	16
		TOTAL PHYTOPLANKTON		8900	
JUL 11	1315	CHLOROPHYTA	GREEN ALGAE		
		..CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...SCENEDESMACEAE			
		....SCENEDESMUS		1500	34
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		..BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCINODISCACEAE			
		....CYCLOTELLA		1200	29
		....MELOSIRA		160	4
		..PENNATAES	PENNATE		
		...ACHNANTHACEAE			
		...ACHNANTHES		53	1
		...CYMBELLACEAE			
		...AMPHORA		53	1
		...CYMBELLA		100	2
		...FRAGILARIACEAE			
		...SYNEDRA		260	6
		...GOMPHONEMATACEAE			
		...GOMPHONEHA		53	1
		...MERIDIONACEAE			
		...MERIDION		53	1
		...NAVICULACEAE	NAVICULOID		
		...NAVICULA		53	1
		...NITZSCHIAEAE			
		...NITZSCHIA		640	15
		EUGLENOPHYTA			
		..EUGLENOPHYCEAE			
		...EUGLENALES			
		...EUGLENACEAE			
		...TRACHELOMONAS		100	2
		PYRRHOPHYTA			
		..DINOPHYCEAE			
		...PERIDINIALES			
		...PERIDINIACEAE			
		....PERIDINIUM		53	1
		TOTAL PHYTOPLANKTON		4400	

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued  
 BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		PHYTOPLANKTON				
DATE	TIME	PHYLUM .CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL	
AUG 19	1045	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...HYDRODICTYACEAE				
		....PEDIASTRUM		1100	13	
		...MICRACTINIACEAE				
		....MICRACTINIUM		72	1	
		...OOCYSTACEAE				
		....TETRAEDRON		210	2	
		...SCENEDESMACEAE				
		....CRUCIGENIA		4000	44	
		...SCENEDESMUS		430	5	
		CHRYSOPHYTA	YELLOW-GREEN ALGAE			
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCONODISCACEAE		720	8	
		....CYCLOTELLA				
		...PENNALES	PENNATE			
		....ACHNANTHACEAE		430	5	
		...ACHNANTHES				
		...CYMBELLACEAE				
		....CYMBELLA		72	1	
		...FRAGILARIACEAE				
		....SYNEDRA		72	1	
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA		430	5	
		...NITZSCHACEAE				
		....NITZSCHIA		790	9	
		CYANOPHYTA	BLUE-GREEN ALGAE			
		.MYXOPHYCEAE	FILAMENTOUS			
		...OSCILLATORIALES				
		....OSCILLATORIAACEAE		650	7	
		...PHORMIDIUM				
		TOTAL PHYTOPLANKTON		9100		
SEP 22	1220	CHLOROPHYTA	GREEN ALGAE			
		.CHLOROPHYCEAE				
		..CHLOROCOCCALES				
		...OOCYSTACEAE		190	7	
		....ANKISTRODESMUS		48	2	
		...TETRAEDRON				
		...SCENEDESMACEAE				
		....ACTINASTRUM		96	4	
		...SCENEDESMUS		280	11	
		CHRYSOPHYTA	YELLOW-GREEN ALGAE			
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCONODISCACEAE		48	2	
		....CYCLOTELLA		48	2	
		...MELOSIRA				
		...PENNALES	PENNATE			
		....ACHNANTHACEAE				
		...ACHNANTHES		240	9	
		...CYMBELLACEAE				
		....CYMBELLA		140	6	
		...FRAGILARIACEAE				
		....SYNEDRA		96	4	
		...GOMPHONEMACEAE				
		....GOMPHONEMA		48	2	
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA		720	28	
		...NITZSCHACEAE				
		....NITZSCHIA		620	24	
		TOTAL PHYTOPLANKTON		2500		

QUALITATIVE AND ASSOCIATED QUANTITATIVE ANALYSES OF BIOLOGICAL DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

PERIPHYTON							
Date	Length of exposure (days)	Biomass (g/m <sup>2</sup> )		Chlorophyll <sup>a</sup>	Chlorophyll <sup>b</sup>	Biomass	Sampling method
		Dry weight	Ash weight	(mg/m <sup>2</sup> )	(mg/m <sup>2</sup> )	pigment ratio	
Nov. 11	31	42	33	21	4.1	440	Polyethylene strip
June 9	30	11	4.0	42	10	170	Polyethylene strip
Sept. 22	33	19	17	31	5.3	64	Polyethylene strip

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

[illegible]

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	255	250	252				---	---	---	270	260	265
2	300	252	262				---	---	---	280	270	275
3	300	242	265				---	---	---	280	280	280
4	268	240	252				---	---	---	290	280	285
5	325	255	275				---	---	---	295	290	290
6	280	255	265				---	---	---	315	200	255
7	260	255	258				---	---	---	205	135	155
8	265	250	255				---	---	---	210	170	190
9	268	243	252				---	---	---	170	145	155
10	---	---	---				---	---	---	205	170	190
11	---	---	---				---	---	---	220	205	210
12	---	---	---				335	315	320	235	220	225
13	---	---	---				320	310	315	250	235	245
14	---	---	---				315	305	310	260	250	255
15	---	---	---				315	310	310	270	260	265
16	---	---	---				310	305	305	270	270	270
17	---	---	---				310	300	305	280	270	275
18	---	---	---				310	300	305	280	280	280
19	---	---	---				315	305	310	290	280	285
20	---	---	---				320	310	315	290	290	290
21	---	---	---				320	310	315	300	290	295
22	---	---	---				320	315	320	300	290	295
23	---	---	---				320	315	320	290	255	275
24	---	---	---				320	310	315	205	200	205
25	---	---	---				315	310	310	210	200	205
26	---	---	---				315	310	315	210	210	210
27	---	---	---				315	135	251	205	205	205
28	---	---	---				155	125	140	210	200	205
29	---	---	---				220	155	195	230	210	220
30	---	---	---				250	220	240	290	280	285
31	---	---	---				260	250	255	290	210	280
MONTH	---	---	---				---	---	---	315	135	246
DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	210	135	165	225	220	220	230	190	210	---	---	---
2	135	100	105	225	200	210	245	230	235	---	---	---
3	155	115	140	210	195	200	255	245	250	---	---	---
4	155	130	140	220	210	215	255	250	255	---	---	---
5	170	130	155	220	220	220	250	245	245	---	---	---
6	170	150	160	220	215	215	255	245	250	---	---	---
7	150	130	140	215	120	170	255	255	255	---	---	---
8	130	105	125	140	125	135	255	255	255	245	240	240
9	110	100	105	165	140	150	255	250	250	245	235	240
10	135	110	115	170	165	165	255	250	255	235	235	235
11	165	130	150	180	170	175	---	---	---	240	235	235
12	185	82	135	185	180	185	---	---	---	265	240	255
13	100	78	89	210	185	205	---	---	---	280	270	275
14	140	100	125	215	210	215	---	---	---	290	280	280
15	165	130	150	225	210	220	---	---	---	290	275	280
16	185	165	175	210	155	165	---	---	---	280	275	280
17	190	180	185	190	170	185	---	---	---	280	280	280
18	200	190	195	170	115	125	---	---	---	280	280	280
19	205	200	200	125	115	120	---	---	---	285	280	280
20	195	120	150	160	125	145	---	---	---	290	280	285
21	175	160	170	165	96	140	---	---	---	295	285	285
22	195	175	185	125	92	100	---	---	---	315	290	300
23	200	195	200	145	120	135	---	---	---	290	285	285
24	205	200	205	150	145	150	---	---	---	285	285	285
25	215	205	210	145	110	125	---	---	---	290	285	290
26	220	215	220	155	120	145	---	---	---	290	285	290
27	220	220	220	165	155	160	---	---	---	290	285	290
28	225	220	220	170	165	165	---	---	---	310	290	295
29	---	---	---	185	170	180	---	---	---	310	290	295
30	---	---	---	190	185	185	---	---	---	290	290	290
31	---	---	---	190	190	190	---	---	---	300	290	295
MONTH	225	78	162	225	92	171	---	---	---	---	---	---

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

## SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JUNE			JULY			AUGUST			SEPTEMBER		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	295	290	290	270	265	265	285	280	285	250	245	250
2	295	285	290	275	270	275	285	280	280	250	245	250
3	285	280	280	295	275	285	285	275	280	245	240	245
4	280	280	280	305	275	285	285	275	280	250	245	245
5	280	275	280	280	270	275	280	275	275	250	245	250
6	285	275	280	280	275	275	280	275	275	245	245	245
7	285	280	285	285	275	280	275	260	270	245	235	240
8	280	280	280	275	265	270	270	260	265	240	240	240
9	280	275	275	280	270	275	270	255	265	245	240	240
10	275	270	275	275	275	275	265	260	265	245	240	240
11	275	270	275	280	275	280	270	265	265	245	240	240
12	275	270	275	280	270	275	270	255	260	250	245	245
13	275	265	270	280	270	275	260	260	260	250	245	250
14	275	270	275	280	270	275	265	255	260	250	250	250
15	285	270	275	280	270	275	260	250	255	250	245	245
16	285	280	285	280	275	275	250	245	245	255	245	250
17	285	275	280	280	270	275	255	245	250	250	250	250
18	295	285	290	275	270	270	260	255	260	250	250	250
19	295	275	285	275	270	270	265	260	260	250	250	250
20	285	270	280	280	270	275	260	260	260	250	245	250
21	285	275	280	290	280	285	260	250	255	255	250	250
22	285	280	285	285	280	280	260	255	255	250	245	250
23	285	275	280	285	280	285	260	255	260	250	245	245
24	285	275	280	285	275	280	265	260	260	250	245	250
25	285	275	280	285	280	285	265	260	260	250	245	245
26	280	275	280	285	275	280	265	260	260	245	245	245
27	285	275	280	285	280	280	260	260	260	245	245	245
28	280	265	275	285	280	280	260	255	255	250	245	245
29	280	275	280	290	280	285	280	240	245	245	245	245
30	280	265	270	290	270	280	240	235	240	265	245	255
31	---	---	---	280	270	270	245	240	245	---	---	---
MONTH	295	265	280	305	265	277	285	235	262	265	235	247

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	19.0	15.0	15.0	11.0	10.0	8.5	7.0	9.5	14.0	12.5	11.5
2	21.0	19.0	15.0	15.0	11.5	11.0	8.0	7.0	9.5	13.0	11.5	11.5
3	21.0	19.0	15.0	14.0	12.0	11.0	8.0	7.0	7.5	13.5	10.5	10.5
4	20.5	19.0	14.0	12.5	12.0	11.0	9.5	8.0	8.0	13.5	12.0	12.0
5	20.0	18.0	14.0	12.5	11.0	10.5	9.0	8.0	8.0	13.0	12.0	12.0
6	20.0	18.0	15.0	13.5	12.5	11.0	10.0	8.5	8.5	12.5	11.5	11.5
7	19.0	17.5	15.0	14.0	12.5	11.5	10.0	9.0	10.5	12.5	11.5	11.5
8	19.0	18.0	14.5	12.5	12.0	11.0	10.5	10.0	11.5	12.0	11.5	11.5
9	19.0	18.0	14.0	11.5	11.0	10.5	10.0	8.0	11.5	12.0	10.5	10.5
10	19.0	17.5	15.5	13.5	11.0	10.0	8.0	8.0	11.0	12.0	10.5	10.5
11	19.0	17.0	15.5	14.5	11.0	10.5	9.0	9.0	10.5	12.5	10.0	10.0
12	19.0	17.0	15.0	13.5	11.5	11.0	9.0	9.0	10.5	12.0	10.5	10.5
13	19.0	17.0	15.0	13.5	12.5	11.0	9.0	9.0	11.5	12.0	10.5	10.5
14	19.0	17.0	15.0	14.0	12.5	11.0	8.5	8.5	11.5	12.0	9.5	9.5
15	19.0	17.0	15.0	14.0	13.0	11.0	10.0	8.5	10.5	12.0	10.5	10.5
16	19.0	17.0	14.5	14.0	13.0	11.0	10.0	8.5	10.0	10.5	8.5	8.5
17	19.0	17.0	14.5	13.5	13.5	11.0	9.5	8.5	10.0	10.5	9.5	9.5
18	19.0	17.0	14.5	13.5	11.0	11.0	10.0	9.0	10.0	11.5	10.0	10.0
19	18.5	17.0	14.0	12.5	9.0	9.0	10.0	9.0	11.0	12.5	11.0	11.0
20	18.0	17.0	13.5	12.0	9.5	9.0	10.0	9.0	10.5	12.0	10.0	10.0
21	18.0	16.5	13.5	13.0	10.0	9.5	10.5	9.5	10.0	11.5	9.5	9.5
22	17.0	16.0	13.0	11.5	9.5	9.0	11.0	9.5	10.0	10.5	9.0	9.0
23	17.0	16.0	12.0	10.5	8.5	7.5	11.0	9.5	11.0	10.5	10.0	10.0
24	16.5	16.0	11.5	10.5	7.5	6.0	11.0	9.0	11.5	11.0	10.5	10.5
25	16.0	15.0	13.0	11.0	7.5	6.5	11.0	11.0	12.0	12.0	10.5	10.5
26	16.0	14.5	13.0	11.5	8.5	6.5	11.0	11.0	12.5	11.5	10.0	10.0
27	16.0	15.0	12.0	10.5	9.5	8.5	11.0	11.0	13.5	11.5	10.0	10.0
28	15.5	15.0	11.5	10.5	9.0	7.5	11.0	11.0	14.0	11.0	9.5	9.5
29	15.0	14.5	11.5	10.0	7.5	6.5	11.0	11.0	11.5	12.5	10.0	10.0
30	14.5	13.5	11.0	10.0	8.0	7.0	11.0	11.0	11.5	13.5	11.0	11.0
31	15.0	14.5	11.0	10.0	8.0	7.0	11.0	11.0	11.5	13.5	11.5	11.5
MONTH	21.0	13.5	15.5	10.0	11.0	10.0	11.0	11.0	11.0	14.0	8.5	8.5

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	MAX	APR DAILY	MIN	MAX	MAY DAILY	MIN	MAX	JUN DAILY	MIN	MAX	JUL DAILY	MIN	MAX	AUG DAILY	MIN	MAX	SEP DAILY	MIN
1	13.5	--	10.5	18.0	--	15.5	23.0	--	21.0	24.0	--	20.5	--	25.0	--	24.0	--	19.0
2	13.5	--	11.5	18.5	--	16.0	22.5	--	21.0	24.5	--	19.5	--	--	--	24.5	--	19.5
3	13.5	--	12.5	18.0	--	15.5	23.0	--	21.0	24.0	--	20.5	--	25.0	--	25.0	--	19.5
4	13.0	--	11.5	15.5	--	13.5	24.5	--	21.5	24.0	--	20.0	--	--	--	25.5	--	20.0
5	12.0	--	10.5	16.5	--	13.0	23.5	--	22.0	23.5	--	19.0	--	--	--	25.5	--	21.0
6	12.5	--	10.0	17.5	--	14.5	23.0	--	22.0	25.5	--	20.5	--	25.0	--	25.0	--	20.5
7	12.0	--	10.5	18.5	--	15.5	22.5	--	21.5	25.0	--	21.0	--	--	--	24.5	--	20.0
8	12.0	--	10.5	18.0	--	16.0	23.5	--	21.5	26.0	--	20.5	--	25.0	--	22.0	--	19.5
9	14.0	--	10.5	18.5	--	16.0	24.5	--	22.5	26.0	--	21.5	--	--	--	21.0	--	19.5
10	14.0	--	12.0	18.0	--	17.0	25.0	--	23.5	26.0	--	21.0	--	--	--	20.5	--	18.5
11	15.5	--	12.5	20.0	--	16.5	23.5	--	22.0	26.0	--	21.0	--	25.0	--	20.0	--	18.5
12	16.0	--	13.0	21.5	--	17.5	23.5	--	21.5	27.0	--	21.5	--	--	--	20.5	--	19.0
13	16.0	--	14.0	22.0	--	19.0	24.5	--	21.5	26.5	--	21.5	--	--	--	21.5	--	19.0
14	15.0	--	13.5	21.5	--	18.5	23.5	--	22.0	26.0	--	21.5	--	--	--	21.5	--	19.5
15	14.5	--	12.5	21.0	--	17.0	22.5	--	21.0	24.0	--	21.5	--	--	--	21.5	--	19.5
16	13.5	--	11.5	21.5	--	17.5	23.5	--	20.5	24.5	--	20.5	--	--	--	21.5	--	19.5
17	14.0	--	11.0	22.5	--	19.0	23.5	--	20.5	26.0	--	21.5	--	--	--	22.0	--	19.0
18	15.0	--	12.0	22.5	--	20.0	24.0	--	20.0	24.5	--	21.5	--	--	--	22.0	--	19.0
19	16.5	--	13.5	22.0	--	20.0	23.5	--	20.0	25.5	--	20.5	--	22.0	--	21.5	--	18.5
20	17.5	--	14.5	21.0	--	16.5	23.5	--	20.0	26.0	--	21.5	--	22.0	--	22.0	--	18.5
21	17.5	--	15.0	20.5	--	16.5	24.0	--	20.5	26.0	--	21.5	25.0	--	20.5	22.0	--	19.0
22	17.0	--	14.0	22.0	--	19.0	24.0	--	20.0	27.0	--	22.0	25.5	--	20.5	22.5	--	19.5
23	14.0	--	13.5	23.5	--	18.5	24.0	--	20.0	27.5	--	22.5	26.0	--	20.5	23.0	--	19.0
24	14.5	--	13.0	24.5	--	19.5	23.5	--	20.0	28.0	--	22.5	26.5	--	21.5	23.5	--	19.5
25	13.5	--	11.5	24.5	--	20.0	23.5	--	19.0	28.0	--	22.0	26.5	--	22.0	23.5	--	20.0
26	15.0	--	12.0	24.5	--	20.0	24.0	--	19.5	28.0	--	23.5	24.5	--	21.0	23.0	--	19.5
27	16.5	--	13.0	25.0	--	20.5	24.0	--	20.5	27.5	--	23.0	21.5	--	19.5	21.5	--	19.0
28	17.5	--	14.5	25.0	--	20.5	24.5	--	20.5	26.0	--	23.0	23.5	--	19.0	20.5	--	18.0
29	18.0	--	15.0	25.0	--	21.5	25.0	--	21.0	--	--	--	24.0	--	19.0	20.5	--	17.5
30	18.5	--	16.0	25.5	--	23.5	25.0	--	20.5	--	25.5	--	24.5	--	19.0	20.5	--	17.5
31	--	--	--	24.0	--	22.5	--	--	--	--	--	--	24.0	--	19.5	--	--	--
MONTH	18.5	--	10.0	25.5	--	13.0	25.0	--	19.0	28.0	--	19.0	--	--	--	25.5	--	17.5

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	358	8	7.7	434	22	26	254	7	4.8
2	358	8	7.7	415	21	24	287	14	11
3	353	9	8.6	407	21	23	1010	317	2120
4	348	10	9.4	398	20	22	3920	843	9110
5	353	12	11	394	20	21	1500	378	1670
6	338	14	13	334	18	16	830	54	121
7	336	14	15	290	13	10	612	28	46
8	328	19	17	319	23	20	504	19	26
9	331	23	21	311	17	14	431	18	21
10	336	20	18	308	16	13	380	17	17
11	343	17	16	293	15	12	362	17	17
12	342	16	15	281	14	11	364	23	23
13	339	13	12	279	14	11	364	17	17
14	339	13	12	276	13	9.7	368	12	12
15	335	13	12	276	12	8.9	386	17	18
16	333	13	12	273	12	8.8	415	15	17
17	334	15	14	266	12	8.6	405	14	15
18	329	16	14	270	13	9.5	367	15	15
19	328	16	14	271	13	9.5	339	11	10
20	329	15	13	257	12	8.3	318	10	8.6
21	333	13	12	281	14	11	309	11	9.2
22	333	12	11	334	24	22	316	8	6.8
23	345	12	11	335	21	19	319	5	4.3
24	373	25	25	306	17	14	314	5	4.2
25	373	29	29	320	18	16	312	5	4.2
26	368	26	26	313	16	14	309	8	6.7
27	363	15	15	290	9	7.0	1900	484	4950
28	486	15	20	271	8	5.9	7780	1330	30100
29	552	25	48	261	8	5.6	2760	280	2330
30	479	43	56	254	7	4.8	1470	89	367
31	444	28	34	---	---	---	991	38	102
MONTH	11239	---	549.4	9317	---	405.6	30196	---	51183.8



11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY); WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	789	25	53	5110	445	6950	1960	45	238
2	686	20	37	14200	1230	47500	2810	63	478
3	613	16	26	8930	457	11600	2710	51	373
4	579	12	19	10100	441	12600	2250	40	243
5	564	22	34	8480	135	3090	2080	32	180
6	1500	206	1460	8350	432	9740	2210	228	1360
7	4290	705	9200	12400	510	17100	9290	515	17500
8	3030	187	1920	16700	502	23600	14900	768	31100
9	3570	270	2770	30100	1340	113000	10700	516	15500
10	2270	66	405	25500	722	51100	8250	180	4010
11	1790	57	275	13700	410	15200	7400	190	3800
12	1380	54	201	19900	924	77100	6190	120	2010
13	1110	52	156	62100	1440	239000	4480	97	1170
14	954	44	113	33700	610	59300	3750	78	790
15	838	33	75	14700	342	13600	3280	58	514
16	761	25	51	9780	275	7260	6980	81	1550
17	694	20	37	7480	228	4600	5640	62	944
18	642	17	29	6100	180	2960	18600	472	27000
19	603	16	26	5350	260	3760	20500	474	26200
20	566	14	21	8160	270	5950	13300	460	16500
21	538	10	15	5860	235	3720	15600	907	55300
22	556	12	18	4390	168	1990	41100	1100	124000
23	721	35	68	3520	120	1140	22200	740	43200
24	762	108	222	3080	92	765	15400	700	29100
25	777	32	67	2730	77	568	22300	861	53400
26	782	23	49	2440	74	488	16400	101	5190
27	773	25	52	2220	64	384	12000	50	1620
28	725	25	49	2050	50	277	10200	68	1870
29	619	25	42	---	---	---	8210	80	1770
30	587	24	38	---	---	---	6650	75	1350
31	789	60	206	---	---	---	5900	86	1370
MONTH	34858	---	17734	347130	---	734342	323240	---	469630
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4160	125	1400	1180	18	57	319	20	17
2	3040	145	1190	1180	18	57	347	21	20
3	2590	136	951	1210	16	52	356	22	21
4	2480	131	877	1210	15	49	364	21	21
5	2560	86	594	1170	18	57	341	20	18
6	2400	56	363	1140	29	89	322	25	22
7	2110	53	302	1120	25	76	317	31	27
8	2030	49	269	1110	20	60	321	25	22
9	2000	42	227	1110	15	45	343	19	18
10	1800	36	175	1140	15	46	336	17	15
11	1680	37	168	1110	15	45	305	15	12
12	1610	38	165	886	15	36	312	13	11
13	1560	35	147	784	15	32	293	12	9.5
14	1500	29	117	713	15	29	283	12	9.2
15	1480	26	104	689	14	26	277	13	9.7
16	1470	33	131	643	14	24	277	14	10
17	1370	33	122	610	13	21	272	14	10
18	1300	36	126	581	13	20	244	14	9.2
19	1200	33	107	548	13	19	253	11	7.5
20	1190	27	87	513	13	18	253	9	6.1
21	1150	18	56	461	13	16	252	9	6.1
22	1110	16	48	373	13	13	245	8	5.3
23	1090	13	38	443	13	16	252	8	5.4
24	1300	23	86	437	13	15	254	9	6.2
25	2120	33	189	419	14	16	258	9	6.3
26	1650	22	98	406	15	16	247	11	7.3
27	1620	20	77	393	15	16	243	13	8.5
28	1310	22	78	319	15	13	240	13	8.4
29	1240	24	80	313	16	14	238	13	8.4
30	1220	20	66	323	18	16	240	13	8.4
31	---	---	---	311	19	16	---	---	---
MONTH	53140	---	8438	22845	---	1025	8604	---	365.5

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	226	14	8.5	129	16	5.6	208	19	11
2	185	15	7.5	124	16	5.4	207	19	11
3	136	11	4.0	124	16	5.4	198	19	10
4	175	8	3.8	129	14	4.9	189	17	8.7
5	191	8	4.1	133	12	4.3	187	18	9.1
6	197	7	3.7	140	11	4.2	206	18	10
7	202	7	3.8	135	10	3.6	216	18	11
8	192	10	5.2	138	9	3.4	253	20	14
9	179	15	7.3	140	9	3.4	277	17	13
10	167	14	6.3	145	8	3.1	280	19	14
11	154	13	5.4	168	7	3.2	314	18	15
12	160	12	5.2	188	8	4.1	268	17	12
13	171	11	5.1	185	9	4.5	244	17	11
14	186	10	5.0	182	9	4.4	252	16	11
15	192	10	5.2	172	10	4.6	260	16	11
16	207	10	5.6	166	11	4.9	265	16	11
17	212	10	5.7	166	9	4.0	234	16	10
18	196	11	5.8	172	8	3.7	234	16	10
19	187	12	6.1	178	18	8.7	238	16	10
20	178	14	6.7	184	13	6.5	242	16	10
21	170	15	6.9	183	14	6.9	240	16	10
22	164	15	6.6	183	15	7.4	234	16	10
23	157	16	6.8	182	16	7.9	232	15	9.4
24	148	15	6.0	183	17	8.4	235	15	9.5
25	133	14	5.0	183	17	8.4	231	14	8.7
26	130	15	5.3	180	17	8.3	226	14	8.5
27	130	16	5.6	186	17	8.5	227	14	8.6
28	131	17	6.0	207	18	10	236	14	8.9
29	132	17	6.1	210	18	10	240	15	9.7
30	132	16	5.7	207	18	10	246	16	11
31	132	---	---	208	19	11	---	---	---
MONTH	5252	---	170.0	5210	---	188.7	7119	---	317.1
YEAR	858150		1284349						

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE DIS- CHARGE (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM
OCT.										
11...	1205	17.5	348	12	11	--	--	--	--	--
DEC.										
04...	1130	12.0	4680	1110	14000	40	56	65	75	84
27...	1700	--	2790	863	6500	31	41	52	63	70
28...	1035	--	9420	1500	38200	19	25	32	39	48
JAN.										
07...	1315	9.0	3770	712	7250	48	61	73	85	90
07...	1630	9.5	3240	542	4740	--	--	--	--	--
FEB.										
08...	1630	11.5	17200	551	25600	--	--	--	--	--
08...	2030	11.0	19300	734	38300	--	--	--	--	--
09...	0930	11.0	33900	1640	150000	25	37	49	62	75
09...	1200	11.0	33600	1490	135000	--	--	--	--	--
10...	1500	11.0	25300	636	43400	34	43	56	69	81
11...	1220	--	13700	413	15300	28	40	51	62	75
11...	1315	--	13200	447	15900	22	30	40	51	64
13...	1040	11.0	66800	1290	233000	36	49	64	78	91
14...	1800	10.0	24200	543	35500	--	--	--	--	--
19...	1305	11.0	4970	152	2040	--	--	--	--	--
MAR.										
06...	1735	--	2190	295	1750	--	--	--	--	--
07...	0945	--	5640	217	3310	--	--	--	--	--
11...	1350	12.5	7480	242	4890	25	31	39	47	56
22...	0845	10.5	44400	1170	140000	33	44	57	68	80
22...	2200	10.0	34900	557	52500	25	32	41	50	64
23...	1130	10.0	21400	941	54400	--	--	--	--	--
25...	1945	10.5	25900	803	56200	--	--	--	--	--
APR.										
06...	1230	11.0	2380	49	315	--	--	--	--	--
10...	1220	12.5	1770	31	151	--	--	--	--	--
JUNE										
09...	1100	24.5	351	19	18	--	--	--	--	--
AUG.										
19...	1030	22.0	176	19	9.0	--	--	--	--	--
SEP.										
22...	1140	20.5	240	16	10	--	--	--	--	--

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM
OCT.										
11...	--	98	--	100	--	--	--	--	--	--
DEC.										
04...	92	--	100	--	--	--	--	--	--	--
27...	76	--	85	--	98	--	100	--	--	--
28...	61	--	89	--	98	--	99	--	100	--
JAN.										
07...	93	--	97	--	100	--	--	--	--	--
07...	--	97	--	99	--	100	--	--	--	--
FEB.										
08...	--	78	--	88	--	98	--	100	--	--
08...	--	73	--	86	--	98	--	100	--	--
09...	85	--	93	--	100	--	--	--	--	--
09...	--	84	--	92	--	99	--	100	--	--
10...	--	90	--	96	--	99	--	100	--	--
11...	--	85	--	95	--	99	--	100	--	--
11...	75	--	89	--	99	--	99	--	100	--
13...	96	--	99	--	100	--	--	--	--	--
14...	--	82	--	95	--	99	--	100	--	--
19...	--	87	--	98	--	100	--	--	--	--
MAR.										
06...	--	82	--	91	--	98	--	100	--	--
07...	--	94	--	99	--	100	--	--	--	--
11...	--	65	--	78	--	96	--	100	--	--
22...	--	89	--	96	--	99	--	100	--	--
22...	--	79	--	95	--	100	--	--	--	--
23...	--	89	--	97	--	99	--	100	--	--
25...	--	95	--	99	--	100	--	--	--	--
APR.										
06...	--	93	--	97	--	100	--	--	--	--
10...	--	88	--	97	--	100	--	--	--	--
JUNE										
09...	--	92	--	94	--	100	--	--	--	--
AUG.										
19...	--	83	--	87	--	94	--	100	--	--
SEP.										
22...	--	86	--	89	--	91	--	94	--	100

## PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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
SEP.								
22...	1205	20.5	1	240	--	--	2	6
22...	1210	20.5	1	240	--	--	1	8
22...	1215	20.5	1	240	1	1	3	10
22...	1220	20.5	1	240	1	2	4	13
22...	1225	20.5	1	240	3	6	14	27

DATE	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM
SEP.							
22...	9	17	35	56	74	89	100
22...	15	19	27	43	67	83	100
22...	14	20	27	39	57	82	100
22...	20	27	39	57	82	89	100
22...	32	35	38	44	58	66	100

## RUSSIAN RIVER BASIN

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	SUS- PEN- DED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)	DATE	TIME	SUS- PEN- DED SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
OCT.				JAN.			
09...	--	23	7	31...	0945	25	10
11...	--	17	6	31...	1600	32	10
14...	--	13	4	FEB.			
16...	--	13	5	01...	--	320	100
18...	--	16	5	02...	--	1390	500
22...	--	12	5	03...	--	498	200
23...	--	12	4	04...	--	658	200
25...	--	29	9	05...	--	306	120
28...	--	17	9	06...	1200	334	150
30...	--	40	15	06...	1700	418	120
NOV.				07...	1040	530	200
01...	--	21	8	07...	1400	470	200
04...	--	20	9	07...	1700	391	150
06...	--	17	8	08...	0900	466	180
08...	--	22	10	08...	1630	551	180
10...	--	16	5	08...	2030	734	200
11...	--	15	6	09...	0930	1640	600
13...	--	14	5	09...	1200	1490	520
18...	--	13	5	09...	1900	837	300
21...	--	14	5	10...	1130	910	300
22...	--	28	9	10...	1500	636	250
25...	--	14	40	11...	1220	413	150
27...	--	8	3	11...	1315	447	150
29...	--	68	9	11...	1520	392	140
DEC.				12...	1145	432	120
02...	--	14	6	12...	1400	771	180
04...	--	1110	600	12...	1805	1620	400
05...	--	192	150	13...	--	1290	600
07...	--	29	10	14...	1010	556	250
08...	--	18	8	14...	1800	543	200
09...	--	18	7	15...	--	320	200
12...	--	26	15	16...	--	285	100
13...	--	12	6	17...	--	212	75
14...	--	12	5	18...	--	168	60
15...	--	18	6	19...	1305	152	60
16...	--	14	6	19...	2145	174	60
17...	--	14	6	21...	--	222	80
18...	--	16	7	22...	--	138	40
19...	--	11	5	23...	1015	127	40
20...	--	10	6	23...	1800	108	40
21...	--	12	3	24...	--	96	40
22...	--	8	3	25...	--	76	30
23...	--	5	3	26...	--	74	30
24...	--	5	3	27...	--	62	25
25...	--	5	2	28...	0930	53	20
26...	--	8	2	28...	1710	46	20
27...	--	863	350	MAR.			
28...	--	1500	400	01...	--	45	20
29...	--	205	100	02...	0940	74	35
30...	--	68	35	02...	1610	66	30
31...	--	37	20	04...	--	39	15
JAN.				05...	--	30	15
01...	--	25	15	06...	0900	244	100
02...	--	21	10	06...	1735	295	100
05...	--	11	4	07...	0945	217	100
06...	--	78	30	07...	1810	348	150
07...	1315	722	400	08...	--	739	35
07...	1445	622	350	09...	--	731	40
07...	1630	542	250	10...	--	132	35
08...	--	156	90	11...	0945	225	80
09...	--	254	150	11...	1320	244	80
10...	--	65	35	11...	1435	206	80
11...	--	57	10	15...	--	54	25
12...	--	54	20	16...	1030	66	30
15...	--	33	10	16...	1810	43	20
16...	--	24	8	17...	1015	74	20
18...	--	17	5	17...	1845	52	20
20...	--	14	6	20...	--	455	150
21...	--	10	5	21...	--	1920	350
22...	--	12	5	22...	0845	1170	500
23...	--	36	15	22...	2200	557	200
24...	--	142	30	23...	1130	941	350
27...	--	25	10	23...	1815	780	350
28...	--	24	10	24...	1030	770	350
29...	--	24	15	24...	1815	808	350
				25...	--	803	350
				26...	--	54	15

11467000 RUSSIAN RIVER NEAR GUERNEVILLE, CALIF.--Continued

PERIODIC DETERMINATIONS OF SUSPENDED-SEDIMENT  
CONCENTRATION AND TURBIDITY, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	SUS- PENDE SEDI- MENT (MG/L)	TUR- BID- ITY (JTU)
MAR.			
27...	--	52	15
28...	--	66	25
APR.			
01...	--	135	40
02...	--	148	40
03...	--	134	40
04...	--	133	40
05...	--	98	15
06...	--	49	15
08...	--	49	15
10...	1220	31	15
10...	1225	34	15
10...	1555	38	10
12...	--	38	10
14...	--	28	8
16...	--	34	10
18...	--	37	8
21...	--	17	6
24...	--	22	6
26...	--	21	6
28...	--	24	6
30...	--	20	8
MAY			
02...	0945	19	8
02...	1615	17	5
04...	--	15	4
06...	--	29	7
09...	--	15	6
13...	--	15	5
18...	--	38	7
23...	--	13	6
27...	--	15	6
31...	--	19	7
JUNE			
03...	--	22	8
05...	--	20	6
07...	--	31	7
09...	1100	19	8
09...	1230	21	9
11...	--	15	5
13...	--	12	3
16...	--	14	5
18...	--	14	4
20...	--	9	3
23...	--	8	3
25...	--	9	4
27...	--	13	4
30...	--	13	4
JULY			
02...	--	15	4
04...	--	8	3
07...	--	7	4
09...	--	15	3
11...	1115	17	4
11...	1305	13	4
14...	--	10	4
16...	--	10	4
18...	--	10	2
21...	--	15	5
23...	--	16	6
25...	--	14	5
28...	--	17	4
30...	--	16	5
AUG.			
01...	--	16	2
03...	--	9	2
06...	--	11	4
08...	--	9	2
11...	--	7	2
13...	--	9	2
16...	--	11	3
18...	--	8	3
19...	--	18	6
20...	--	13	3
24...	--	17	4
26...	--	17	4
SEP.			
03...	--	19	2
04...	--	17	2
05...	--	18	6
22...	--	13	4

## GARCIA RIVER BASIN

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, on left bank 0.9 mi (1.4 km) downstream from North Fork, and 3.5 mi (5.6 km) northeast of town of Point Arena.

DRAINAGE AREA.--98.5 mi<sup>2</sup> (255.1 km<sup>2</sup>).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1951-56, and annual maximum water years 1952-56, August 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 55.31 ft (16.858 m) above mean sea level. July 17, 1951, to Jan. 31, 1956, crest-stage only, at site 15 ft (5 m) upstream at different datum.

AVERAGE DISCHARGE.--13 years, 360 ft<sup>3</sup>/s (10.20 m<sup>3</sup>/s), 260,800 acre-ft/yr (322 hm<sup>3</sup>/yr).

EXTREMES.--Current year; Maximum discharge, 14,600 ft<sup>3</sup>/s (413 m<sup>3</sup>/s) Feb. 12 (gage height, 13.08 ft or 3.987 m); minimum daily, 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Sept. 15-26.

Period of record: Maximum discharge, 30,300 ft<sup>3</sup>/s (858 m<sup>3</sup>/s) Jan. 16, 1974 (gage height, 17.41 ft or 5.307 m), from rating curve extended above 9,600 ft<sup>3</sup>/s (272 m<sup>3</sup>/s) on basis of slope-area measurements at gage heights 15.11 ft (4.606 m) and 16.63 ft (5.069 m); minimum daily, 8.2 ft<sup>3</sup>/s (0.23 m<sup>3</sup>/s) Sept. 24, 1972.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	21	24	134	981	188	398	145	51	30	18	13
2	12	20	401	112	2300	310	356	134	51	30	18	13
3	12	18	993	101	1480	207	323	130	49	30	18	13
4	12	18	842	101	1690	170	316	122	49	30	18	13
5	11	18	246	106	1190	153	304	115	47	28	18	13
6	11	17	131	1780	1340	145	280	108	45	28	17	13
7	11	21	100	1060	2720	1130	254	105	45	28	17	13
8	11	32	83	1250	3830	1540	235	98	43	28	17	12
9	11	26	73	810	5290	1080	223	95	43	28	16	12
10	11	22	65	557	3600	771	207	95	41	28	16	12
11	11	21	69	403	1850	530	197	95	40	26	16	12
12	11	20	69	317	6900	383	188	89	40	26	16	12
13	11	19	72	261	8580	304	183	87	40	26	15	12
14	11	18	84	223	2620	241	175	81	38	24	15	12
15	10	18	106	200	1490	280	166	79	38	24	15	12
16	10	17	92	197	1040	506	162	79	38	26	15	12
17	10	17	82	200	733	742	162	76	38	26	15	12
18	10	21	75	187	554	2970	153	74	36	24	15	12
19	10	22	69	175	1600	3320	149	74	36	24	15	12
20	10	20	62	166	1540	1740	145	71	36	23	15	11
21	10	49	60	158	944	4880	141	71	36	23	15	11
22	10	91	58	149	642	4070	130	71	34	23	15	11
23	10	47	53	141	466	2010	130	71	34	21	15	11
24	10	35	49	136	349	1600	442	71	34	21	14	11
25	10	47	47	131	267	3240	405	68	34	21	14	11
26	10	46	45	129	207	1830	273	66	33	20	14	11
27	14	36	887	126	170	1220	223	63	33	20	14	11
28	55	31	1880	122	149	881	193	61	33	20	13	11
29	49	27	576	119	---	669	175	58	31	20	13	11
30	29	25	267	117	---	546	157	56	31	20	13	11
31	23	---	172	507	---	466	---	54	---	18	13	---
TOTAL	448	840	7832	10175	54522	38122	6845	2662	1177	764	478	356
MEAN	14.5	28.0	253	328	1947	1230	228	85.9	39.2	24.6	15.4	11.9
MAX	55	91	1880	1780	8580	4880	442	145	51	30	18	13
MIN	10	17	24	101	149	145	130	54	31	18	13	11
AC-FT	889	1670	15530	20180	108100	75610	13580	5280	2330	1520	948	706
CAL YR 1974	TOTAL	174898	MEAN	479	MAX	21300	MIN	10	AC-FT	346900		
WTR YR 1975	TOTAL	124221	MEAN	340	MAX	8580	MIN	10	AC-FT	246400		

Peak discharge (base, 5,000 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-9	0030	10.20	7,270	3-21	1630	12.37	12,700
2-12	2330	13.08	14,600				

11467600 GARCIA RIVER NEAR POINT ARENA, CALIF.--Continued

PERIOD OF RECORD.--Water temperatures: October 1963 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 22.0°C Aug. 1; minimum, 6.0°C Jan. 30, 31.

Period of record:

Water temperatures: Maximum (1963 to current year), 22.0°C June 22, 1964, Aug. 29, 1968, June 25, 1973, Aug. 1, 1975; minimum, 5.0°C Dec. 14-16, 1967, Dec. 11, 1972.

## TEMPERATURE (DEG, C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

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

## NAVARRO RIVER BASIN

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, on right bank 2.9 mi (4.7 km) downstream from North Fork, 5.2 mi (8.4 km) upstream from mouth, and 6.8 mi (10.9 km) west of Navarro.

DRAINAGE AREA.--303 mi<sup>2</sup> (785 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 4.79 ft (1.460 m) above mean sea level. Prior to Oct. 1, 1969, at site 0.2 mi (0.3 km) upstream at datum 1.86 ft (0.567 m) higher.

AVERAGE DISCHARGE.--25 years, 547 ft<sup>3</sup>/s (15.49 ft), 396,300 acre-ft/yr (489 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 17,800 ft<sup>3</sup>/s (504 m<sup>3</sup>/s) Mar. 21 (gage height, 22.88 ft or 6.974 m); minimum daily, 7.3 ft<sup>3</sup>/s (0.21 m<sup>3</sup>/s) Sept. 30.  
Period of record: Maximum discharge, 64,500 ft<sup>3</sup>/s (1,830 m<sup>3</sup>/s) Dec. 22, 1955 (gage height, 40.60 ft or 12.375 m, site and datum then in use), from rating curve extended above 19,000 ft<sup>3</sup>/s (538 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 3.8 ft<sup>3</sup>/s (0.11 m<sup>3</sup>/s) Aug. 15, 16, 1972.  
Flood of December 1937 reached a stage of 38.2 ft (11.64 m), from floodmarks.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. No regulation or diversion above station.

REVISIONS (WATER YEARS).--WSP 1445: 1954(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	34	42	105	2400	372	824	252	64	27	13	9.2
2	11	30	54	90	4670	764	723	236	61	27	13	14
3	11	27	678	142	2980	654	668	220	58	27	11	13
4	10	26	1560	210	3680	939	668	216	56	27	11	11
5	10	26	345	850	2310	462	644	205	54	27	11	9.2
6	11	26	152	4500	1760	514	622	191	52	27	11	9.2
7	10	30	122	3650	2230	880	549	180	50	26	11	8.2
8	10	35	100	4100	2500	2900	523	177	49	25	9.2	8.2
9	11	36	82	2150	5790	2610	483	170	48	25	9.2	9.2
10	11	35	74	1180	5690	1940	443	160	47	24	11	9.2
11	11	34	88	728	3050	1400	409	157	45	24	9.2	11
12	11	30	108	481	6900	1050	375	148	43	21	11	11
13	11	29	142	415	11200	880	357	141	42	21	9.2	13
14	11	28	190	354	4470	770	340	132	40	21	11	14
15	11	28	270	318	2660	662	321	127	39	20	9.2	13
16	12	28	160	264	1810	1180	308	124	38	24	8.2	13
17	11	27	92	250	1290	6000	299	118	38	22	8.2	13
18	11	31	78	215	978	7200	282	115	37	21	11	9.2
19	11	35	70	198	2530	6100	256	108	36	22	14	9.2
20	11	35	64	182	3200	3750	248	104	35	21	14	9.2
21	11	46	76	166	1870	7090	236	97	35	21	13	9.2
22	11	80	86	169	1380	9330	220	95	34	20	13	8.2
23	11	72	64	140	1030	4810	216	95	33	19	13	8.2
24	12	58	52	120	845	3910	299	93	32	14	11	8.2
25	12	60	45	112	713	7340	591	89	31	15	14	8.2
26	12	67	260	109	575	4050	416	87	31	15	14	8.2
27	15	60	3300	107	472	2600	368	81	30	14	11	8.2
28	42	51	3650	106	400	1870	333	77	28	13	11	8.2
29	74	45	250	104	---	1390	295	73	27	15	11	8.2
30	51	43	165	100	---	1130	269	70	27	14	11	7.3
31	39	---	130	522	---	963	---	66	---	14	11	---
TOTAL	507	1192	12549	22137	79383	85110	12585	4204	1240	653	348.4	298.1
MEAN	16.4	39.7	405	714	2835	2745	420	136	41.3	21.1	11.2	9.94
MAX	74	80	3650	4500	11200	9330	824	252	64	27	14	14
MIN	10	26	42	90	400	372	216	66	27	13	8.2	7.3
AC-FT	1010	2360	24890	43910	157500	168800	24960	8340	2460	1300	691	591
CAL YR 1974	TOTAL	290602.0	MEAN 796	MAX 45100	MIN	10	AC-FT 576400					
WTR YR 1975	TOTAL	220206.5	MEAN 603	MAX 11200	MIN	7.3	AC-FT 436800					

Date	Time	Peak discharge (base, 7,000 ft <sup>3</sup> /s)	G.H.	Discharge	Date	Time	G.H.	Discharge
2-10	0115	14.95	8,180		3-21	2145	22.88	17,800
2-12	2330	22.37	17,000		3-25	0700	16.93	9,840
3-18	unknown	15.75	8,880					

NOTE.--No gage-height record Dec. 2 to Jan. 27, May 29 to July 2.



## 11468000 NAVARRO RIVER NEAR NAVARRO, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: January 1959 to July 1965, water years 1966, 1973 to current year (partial-record station).

Water temperatures: October 1965 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 25.5°C July 25; minimum, 6.0°C Jan. 17, 20, Jan. 30 to Feb. 1.

Period of record:

Water temperatures: Maximum (1965-68, 1969-71, 1974 to current year), 25.0°C Aug. 20, June 20, 1967, June 5, Sept. 14, 15, 1971; minimum (1967-68, 1971-72, 1974 to current year), 5.5°C on several days in 1967 and 1972.

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCTY- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)				
NOV. 15...	1030	--	28	285	7.6	12.0	1	9.4				
JAN. 08...	0800	4100	--	131	7.4	10.0	30	10.7				
FEB. 13...	1020	--	12600	89	--	--	700	--				
MAR. 13...	0900	880	--	160	8.1	10.0	28	10.0				
MAY 15...	0805	127	--	229	7.4	14.0	0	9.2				
JULY 10...	0800	24	--	264	7.2	17.5	1	7.6				
SEP. 04...	1545	--	11	265	8.1	21.5	1	10.0				

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (CO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)
FEB. 13...	1020	--	12600	--	--	6.6	4.2	5.0	.7	41	0	34
MAY 15...	0805	127	--	70	20	--	--	10	--	119	0	98

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
FEB. 13...	1.8	3.8	.18	--	--	60	.08	2040	34	0	24	.4
MAY 15...	--	7.0	.00	.10	.03	--	--	--	95	0	--	.4

DATE	SPE- CIFIC CON- DUCTY- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB. 13...	89	--	--	700	--	--	100	--	--	--	--
MAY 15...	229	7.4	14.0	0	9.2	7.6	100	0	0	0	0

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

## 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, on right bank 0.7 mi (1.1 km) downstream from South Fork, and 3.5 mi (5.6 km) east of Fort Bragg.

DRAINAGE AREA.--106 mi<sup>2</sup> (275 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 11.73 ft (3.575 m) above mean sea level.

AVERAGE DISCHARGE.--24 years, 230 ft<sup>3</sup>/s (6.514 m<sup>3</sup>/s), 166,600 acre-ft/yr (205 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 7,350 ft<sup>3</sup>/s (208 m<sup>3</sup>/s) Mar. 18 (gage height, 16.70 ft or 5.090 m); minimum daily, 5.5 ft<sup>3</sup>/s (0.16 m<sup>3</sup>/s) Sept. 6-10, 28-30.

Period of record: Maximum discharge, 26,600 ft<sup>3</sup>/s (753 m<sup>3</sup>/s) Mar. 29, 1974 (gage height, 27.14 ft or 8.272 m), from rating curve extended above 4,500 ft<sup>3</sup>/s (127 m<sup>3</sup>/s) on basis of slope-conveyance study; minimum daily, 0.80 ft<sup>3</sup>/s (0.023 m<sup>3</sup>/s) Sept. 12, 1968.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	12	16	45	650	194	292	126	35	20	11	6.5
2	11	10	27	37	1220	235	254	115	35	20	11	7.5
3	11	10	105	31	853	208	236	114	35	20	11	6.4
4	11	10	690	71	908	185	231	105	34	19	10	6.0
5	11	9.7	100	270	801	170	250	97	33	19	10	5.9
6	9.0	9.7	49	1800	674	159	234	92	32	18	10	5.5
7	6.9	16	34	1200	745	333	209	87	30	17	10	5.5
8	6.8	24	25	1600	750	1370	197	83	29	17	9.8	5.5
9	6.7	17	21	840	1260	1140	181	79	29	17	9.5	5.5
10	6.5	15	18	570	1740	838	167	76	28	16	9.2	5.5
11	6.6	13	23	420	1070	631	155	75	28	16	8.8	5.9
12	6.2	12	30	310	3420	480	143	71	27	15	8.6	6.0
13	6.2	11	54	250	5280	397	134	68	27	15	8.4	6.3
14	6.3	11	71	200	2000	332	128	64	26	15	8.1	6.5
15	6.2	10	81	160	1050	312	125	64	26	17	7.8	6.5
16	6.0	10	56	130	723	507	120	61	26	19	7.5	6.2
17	6.0	11	41	104	528	1390	115	56	25	17	8.1	6.9
18	6.0	19	30	83	427	5790	107	54	25	16	9.4	13
19	6.0	21	25	69	2180	3580	102	52	24	15	9.6	7.0
20	6.0	16	22	57	2290	1720	97	50	24	14	8.9	7.0
21	6.0	23	24	49	1100	2740	93	47	24	14	8.2	6.6
22	6.2	35	27	43	718	3400	90	46	24	13	7.5	6.5
23	7.0	27	20	37	521	1960	94	45	23	13	7.1	6.4
24	7.8	22	18	33	416	1770	178	44	23	12	6.9	6.4
25	7.8	31	16	31	348	4190	245	42	22	12	6.5	6.0
26	8.4	28	15	31	291	1850	203	41	22	12	6.5	6.1
27	12	23	1100	29	244	1040	181	39	21	12	6.6	6.0
28	54	20	1300	26	204	701	162	38	21	12	7.4	5.5
29	43	18	180	25	---	519	148	38	21	12	7.1	5.5
30	19	17	64	24	---	416	136	37	20	11	7.2	5.5
31	14	---	56	123	---	349	---	36	---	11	6.9	---
TOTAL	336.6	511.4	4338	8698	32411	38906	5007	2042	799	476	264.6	191.6
MEAN	10.9	17.0	140	281	1158	1255	167	65.9	26.6	15.4	8.54	6.39
MAX	54	35	1300	1800	5280	5790	292	126	35	20	11	13
MIN	6.0	9.7	15	24	204	159	90	36	20	11	6.5	5.5
AC-FT	668	1010	8600	17250	64290	77170	9930	4050	1580	944	525	380
CAL YR 1974 TOTAL	138253.3			MEAN 379	MAX 20100	MIN 3.7	AC-FT 274200					
WTR YR 1975 TOTAL	93981.2			MEAN 257	MAX 5790	MIN 5.5	AC-FT 186400					

		Peak discharge (base, 2,400 ft <sup>3</sup> /s)					
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
1-6	unknown	10.40	2,650	3-18	0530	16.70	7,350
2-12	2015	16.27	6,960	3-21	2030	14.38	5,360
2-19	1915	13.28	4,350	3-25	0530	14.94	5,800

## NOYO RIVER BASIN

11468500 NOYO RIVER NEAR FORT BRAGG, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: January 1959 to September 1965, water year 1966 (partial-record station).  
 Water temperatures: December 1965 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 22.0°C July 22, 24, 25.

Period of record:

Water temperatures: Maximum, 23.5°C July 26, 1974; minimum (1965-69, 1970-74), 2.0°C Dec. 17-21, 1965.

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	17.5	-- 14.5	11.5	-- 10.0	10.5	-- 9.0	--	--	--	--	11.0	-- 10.5
2	16.5	-- 15.0	10.5	-- 8.5	10.5	-- 10.0	--	--	--	--	11.5	-- 11.0
3	16.5	-- 14.5	10.0	-- 8.0	--	11.0	--	--	--	--	11.0	-- 10.0
4	16.0	-- 13.5	11.0	-- 9.0	--	--	--	--	--	--	11.5	-- 9.5
5	15.5	-- 13.0	12.0	-- 9.0	--	--	--	--	--	--	11.0	-- 10.0
6	14.5	-- 12.5	12.5	-- 11.0	--	--	--	--	--	--	11.5	-- 10.5
7	14.5	-- 12.5	12.5	-- 11.5	--	--	--	--	--	--	11.0	-- 11.0
8	15.5	-- 14.0	11.5	-- 11.0	--	--	--	--	--	--	11.0	-- 11.0
9	16.5	-- 15.0	12.0	-- 10.0	--	--	--	--	--	--	11.0	-- 10.5
10	16.0	-- 13.5	13.0	-- 12.0	--	--	--	--	--	--	10.5	-- 10.0
11	15.5	-- 13.0	13.0	-- 12.0	--	--	--	--	--	--	10.5	-- 10.0
12	15.5	-- 12.5	13.0	-- 12.0	--	--	--	--	--	--	10.0	-- 9.5
13	15.0	-- 12.5	13.0	-- 12.5	--	--	--	--	10.5	--	10.0	-- 9.0
14	14.5	-- 12.0	13.0	-- 12.5	--	--	--	--	9.0	--	10.0	-- 8.5
15	14.0	-- 11.5	13.0	-- 12.5	--	--	--	--	9.5	-- 9.0	9.5	-- 9.0
16	14.0	-- 11.5	13.0	-- 12.0	--	--	7.0	--	9.5	-- 8.5	9.5	-- 8.5
17	13.0	-- 11.5	13.0	-- 12.0	--	--	8.0	-- 7.0	8.5	-- 8.0	10.0	-- 9.0
18	14.0	-- 11.5	13.0	-- 12.0	--	--	--	--	9.0	-- 8.0	11.0	-- 10.0
19	13.5	-- 12.5	12.0	-- 11.5	--	--	--	--	10.5	-- 9.0	11.0	-- 11.0
20	13.5	-- 12.0	12.5	-- 11.0	--	--	--	--	10.5	-- 9.5	11.0	-- 9.0
21	12.5	-- 11.0	13.5	-- 12.5	--	--	--	--	9.5	-- 8.5	10.0	-- 9.0
22	12.0	-- 10.0	13.5	-- 11.0	--	--	--	--	9.0	-- 8.0	10.0	-- 9.5
23	13.0	-- 11.0	11.0	-- 10.5	--	--	--	--	9.0	-- 8.5	10.0	-- 10.0
24	12.5	-- 11.5	11.5	-- 10.5	--	--	--	--	9.0	-- 8.5	11.0	-- 10.0
25	13.0	-- 11.5	11.5	-- 11.5	--	--	--	--	9.5	-- 9.0	11.0	-- 10.5
26	13.0	-- 11.5	11.5	-- 10.5	--	--	--	--	10.0	-- 9.0	10.5	-- 9.0
27	13.0	-- 12.0	11.0	-- 10.0	--	--	--	--	11.0	-- 9.5	10.0	-- 9.0
28	13.0	-- 12.0	11.0	-- 10.0	--	--	--	--	11.5	-- 10.5	10.0	-- 8.5
29	12.0	-- 11.0	11.0	-- 9.0	--	--	--	--	--	--	10.0	-- 8.5
30	12.0	-- 10.5	10.0	-- 9.0	--	--	--	--	--	--	11.0	-- 9.5
31	12.5	-- 10.5	--	--	--	--	--	--	--	--	10.5	-- 9.0
MONTH	17.5	-- 10.0	13.5	-- 8.0	--	--	--	--	--	--	11.5	-- 8.5
DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	10.0	-- 8.0	13.5	-- 11.0	18.5	-- 16.5	19.5	-- 16.0	--	--	--	--
2	10.0	-- 8.0	15.0	-- 11.5	18.5	-- 15.5	19.5	-- 16.0	--	--	--	--
3	10.0	-- 9.0	13.5	-- 11.5	20.0	-- 15.0	19.0	-- 16.0	--	--	--	--
4	10.0	-- 8.5	13.5	-- 10.0	21.0	-- 16.0	19.5	-- 17.0	--	--	--	--
5	9.5	-- 8.0	13.5	-- 10.5	21.0	-- 17.0	20.5	-- 15.5	--	--	--	--
6	11.0	-- 8.5	14.5	-- 10.5	20.0	-- 16.5	20.5	-- 16.5	--	--	--	--
7	10.0	-- 8.5	15.5	-- 11.5	20.0	-- 16.0	19.0	-- 17.5	--	--	--	--
8	11.0	-- 9.0	16.0	-- 13.0	21.0	-- 15.5	20.5	-- 16.5	--	--	--	--
9	12.0	-- 9.0	16.0	-- 13.5	21.5	-- 17.0	20.5	-- 17.0	--	--	--	--
10	12.0	-- 9.0	15.0	-- 13.0	21.5	-- 18.0	21.0	-- 17.5	--	--	--	--
11	12.5	-- 9.5	17.0	-- 13.0	20.5	-- 18.0	20.5	-- 18.0	--	--	--	--
12	13.0	-- 9.0	17.5	-- 13.0	20.0	-- 16.5	20.0	-- 16.5	--	--	--	--
13	12.5	-- 10.5	18.0	-- 14.0	21.0	-- 16.5	20.0	-- 16.0	--	--	--	--
14	11.5	-- 10.0	17.0	-- 14.0	20.5	-- 17.5	20.0	-- 15.5	--	--	--	--
15	10.5	-- 8.5	15.5	-- 13.0	17.5	-- 16.5	19.0	-- 17.5	20.0	-- 16.0	--	--
16	10.5	-- 8.5	17.0	-- 13.5	19.0	-- 15.5	20.0	-- 17.0	--	--	--	--
17	11.5	-- 8.0	18.0	-- 13.5	18.5	-- 16.0	20.5	-- 17.0	--	--	--	--
18	12.0	-- 9.0	18.0	-- 14.0	18.5	-- 15.0	20.5	-- 17.5	--	--	15.0	--
19	13.5	-- 10.5	17.0	-- 14.5	18.0	-- 16.0	21.0	-- 18.0	--	--	--	--
20	14.0	-- 10.0	17.0	-- 13.0	19.0	-- 15.5	21.5	-- 18.0	--	--	--	--
21	13.5	-- 11.0	17.0	-- 12.5	19.5	-- 16.5	21.5	-- 18.5	--	--	--	--
22	12.5	-- 11.0	17.5	-- 13.0	19.0	-- 16.5	22.0	-- 17.5	--	--	--	--
23	12.0	-- 10.5	18.0	-- 13.5	17.0	-- 15.5	21.5	-- 17.0	--	--	--	--
24	12.0	-- 11.0	18.0	-- 13.5	17.5	-- 15.0	22.0	-- 18.0	--	--	--	--
25	11.5	-- 10.0	18.5	-- 13.0	18.5	-- 14.5	22.0	-- 17.0	--	--	--	--
26	12.0	-- 9.0	19.0	-- 15.0	19.5	-- 16.5	21.5	-- 17.0	--	--	--	--
27	13.0	-- 9.5	18.5	-- 15.0	18.5	-- 15.0	21.5	-- 17.5	--	--	--	--
28	13.5	-- 9.5	19.0	-- 14.5	19.5	-- 14.5	21.5	-- 18.0	--	--	--	--
29	13.5	-- 10.0	19.0	-- 15.0	20.0	-- 15.5	21.0	-- 17.5	--	--	--	--
30	14.0	-- 10.5	19.5	-- 16.0	20.0	-- 16.0	21.0	-- 16.0	--	--	--	--
31	--	--	19.5	-- 16.5	--	--	--	--	--	--	--	--
MONTH	14.0	-- 8.0	19.5	-- 10.0	21.5	-- 14.5	22.0	-- 15.5	--	--	--	--

## 11468990 HONEYDEW CREEK NEAR HONEYDEW, CALIF.

LOCATION.--Lat 40°13'23", long 124°06'35", in NE¼SW¼ sec.7, T.3 S., R.1 E., Humboldt County, on left bank just upstream from highway bridge, 0.1 mi (0.2 km) downstream from small right-bank tributary, 1.4 mi (2.3 km) upstream from mouth, and 1.6 mi (2.6 km) south of town of Honeydew.

DRAINAGE AREA.--14.9 mi<sup>2</sup> (38.6 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Altitude of gage is 400 ft (122 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 4,920 ft<sup>3</sup>/s (139 m<sup>3</sup>/s) Mar. 18 (gage height, 14.74 ft or 4.493 m), from rating curve extended above 1,400 ft<sup>3</sup>/s (39.6 m<sup>3</sup>/s); minimum daily, 3.5 ft<sup>3</sup>/s (0.099 m<sup>3</sup>/s) Oct. 19-22.  
Period of record: Maximum discharge, 4,920 ft<sup>3</sup>/s (139 m<sup>3</sup>/s) Mar. 18, 1975 (gage height, 14.74 ft or 4.493 m), from rating curve extended above 1,400 ft<sup>3</sup>/s (39.6 m<sup>3</sup>/s); minimum daily, 3.5 ft<sup>3</sup>/s (0.099 m<sup>3</sup>/s) Oct. 19-22, 1974.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	5.4	28	73	788	516	121	79	25	12	9.0	6.3
2	4.8	4.9	879	61	1000	1030	106	76	26	12	9.5	7.1
3	4.8	4.6	1250	85	550	558	101	102	26	11	9.2	6.0
4	4.8	4.6	536	139	1120	236	99	81	23	12	7.4	5.4
5	4.7	4.6	155	268	650	130	94	75	21	14	7.1	5.6
6	4.8	4.4	80	1000	1000	86	89	72	20	13	7.0	5.4
7	5.0	82	47	600	2000	493	81	66	20	11	7.4	5.5
8	5.0	13	34	1080	1500	1190	78	62	21	11	5.9	5.3
9	5.0	8.2	26	601	2280	481	74	60	22	11	6.2	5.5
10	4.9	7.1	22	300	1440	284	76	71	19	11	5.9	6.3
11	4.8	6.3	26	150	826	156	69	65	19	10	7.1	5.8
12	4.8	5.9	42	110	3440	94	62	56	20	9.3	7.1	5.7
13	4.9	5.5	32	90	2490	67	58	61	18	8.6	8.4	5.8
14	4.3	5.4	113	75	1640	42	57	55	18	9.5	6.7	6.2
15	3.7	5.3	69	65	952	313	53	54	23	12	7.0	6.2
16	3.7	5.1	46	55	538	219	50	53	16	11	8.6	7.0
17	3.7	11	34	50	283	2480	50	50	20	12	8.2	10
18	3.6	17	26	45	217	3820	45	43	19	12	7.7	11
19	3.5	8.9	22	40	1710	1590	44	42	14	11	6.9	11
20	3.5	7.3	19	38	1080	378	41	39	15	8.5	6.2	9.3
21	3.5	176	27	36	515	1560	39	40	14	8.1	6.5	7.4
22	3.5	48	20	34	239	854	39	41	13	8.8	6.0	8.9
23	3.6	25	17	32	139	295	98	39	13	7.0	6.3	8.1
24	3.7	85	15	30	95	886	663	35	16	7.4	4.9	7.2
25	3.7	104	14	28	68	1250	293	33	14	8.5	4.6	9.6
26	3.8	40	22	56	48	621	177	32	17	8.5	6.4	8.0
27	5.7	30	1160	46	52	422	142	32	12	9.1	5.6	8.4
28	25	26	419	43	40	272	117	29	13	10	6.9	9.9
29	8.6	24	200	41	---	201	100	28	12	7.7	6.8	9.7
30	5.6	23	131	38	---	158	89	29	12	6.7	6.7	8.6
31	6.4	---	90	271	---	137	---	27	---	6.8	6.7	---
TOTAL	162.3	797.5	5601	5580	26700	20819	3205	1627	541	310.5	215.9	222.2
MEAN	5.24	26.6	181	180	954	672	107	52.5	18.0	10.0	6.96	7.41
MAX	25	176	1250	1080	3440	3820	663	102	26	14	9.5	11
MIN	3.5	4.4	14	28	40	42	39	27	12	6.7	4.6	5.3
AC-FT	322	1580	11110	11070	52960	41290	6360	3230	1070	616	428	441
CAL YR 1974	TOTAL	51615.4	MEAN	141	MAX	3500	MIN	3.5	AC-FT	102400		
WTR YR 1975	TOTAL	65781.4	MEAN	180	MAX	3820	MIN	3.5	AC-FT	130500		

Peak discharge (base, 2,000 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
12-3	1430	12.78	2,840	3-18	0215	14.74	4,920
12-27	0600	12.87	2,480	3-21	1000	12.86	3,050
2-8	2115	13.15	3,330	3-24	2230	13.00	3,190
2-12	1500	14.38	4,550				

## MATTOLE RIVER BASIN

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, on right bank 0.2 mi (0.3 km) upstream from Clear Creek, 1.5 mi (2.4 km) southeast of Petrolia, and 1.7 mi (2.7 km) upstream from North Fork.

DRAINAGE AREA.--240 mi<sup>2</sup> (622 km<sup>2</sup>).

PERIOD OF RECORD.--October 1911 to December 1913, October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft (12 m), from topographic map. November 1911 to December 1913, nonrecording gages at several sites upstream within 0.3 mi (0.5 km) of present site at various datums. Dec. 11, 1950, to July 14, 1955, at site 0.3 mi (0.5 km) upstream at datum 7.48 ft (2.280 m) higher. July 15, 1955, to Oct. 26, 1967, at site 0.4 mi (0.6 km) downstream at different datum.

AVERAGE DISCHARGE.--27 years, 1,406 ft<sup>3</sup>/s (39.82 m<sup>3</sup>/s) 1,019,000 acre-ft/yr (1.26 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 61,200 ft<sup>3</sup>/s (1,730 m<sup>3</sup>/s) Mar. 18 (gage height, 24.73 ft or 7.538 m), from rating curve extended as explained below; minimum daily, 24 ft<sup>3</sup>/s (0.68 m<sup>3</sup>/s) Oct. 21.  
Period of record: Maximum discharge, 90,400 ft<sup>3</sup>/s (2,560 m<sup>3</sup>/s) Dec. 22, 1955 (gage height, 29.60 ft or 9.022 m, site and datum then in use), from rating curve extended above 26,000 ft<sup>3</sup>/s (736 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum observed, 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) Sept. 1, 2, 15-30, Oct. 27-31, 1913, Sept. 14-18, 25, Oct. 10-16, 1970.

REMARKS.--Records good except those for periods of no gage-height record, which are poor. Diversions for irrigation of about 350 acres (1.42 km<sup>2</sup>) above station.

REVISIONS (WATER YEARS).--WSP 1285: 1912-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	52	80	550	2000	7500	1440	826	238	124	52	39
2	27	47	1890	500	9000	10000	1300	756	232	120	52	37
3	28	42	4700	450	4800	5000	1240	865	225	120	52	37
4	27	39	3930	2800	10000	2200	1280	791	218	117	52	37
5	27	37	1600	5000	6000	2000	1160	711	209	115	50	36
6	27	36	1010	8500	9000	1950	1040	661	200	114	50	36
7	26	128	726	5000	17000	2700	948	616	194	112	50	35
8	26	176	570	9000	13000	5720	897	593	196	109	48	35
9	26	90	463	4000	19000	4090	833	560	192	108	46	35
10	26	65	394	2000	12000	3460	773	567	191	104	45	36
11	26	56	528	1700	7200	2820	725	608	185	101	44	37
12	26	50	598	1300	30000	2370	686	545	182	98	43	38
13	26	47	805	1000	22000	2160	648	510	178	97	42	38
14	26	44	1540	900	15000	1980	624	479	172	95	40	37
15	26	42	1430	800	8000	2180	602	466	168	92	40	37
16	26	41	1040	700	4500	2840	577	438	160	96	40	37
17	26	40	796	640	2500	12100	541	419	156	93	40	37
18	26	59	629	560	1800	54600	520	397	156	90	40	36
19	26	88	520	530	15000	17500	513	378	155	83	45	35
20	26	64	455	500	9000	6770	491	365	148	76	45	34
21	24	291	496	480	4500	9090	470	351	146	71	45	34
22	26	409	520	470	2100	8730	452	338	142	67	44	34
23	26	182	431	460	1200	5750	486	322	142	64	40	33
24	25	126	374	450	720	5940	2680	312	159	61	38	33
25	25	404	343	440	540	14600	2590	303	153	60	37	33
26	25	243	323	700	420	6690	1690	288	141	58	37	33
27	27	159	5500	600	450	3960	1370	276	134	57	36	32
28	68	121	2800	502	400	2780	1150	271	129	56	39	31
29	112	101	1100	491	---	2200	985	262	126	55	40	31
30	68	87	840	461	---	1870	903	249	127	57	41	31
31	57	---	670	1050	---	1650	---	245	---	53	40	---
TOTAL	1009	3366	37101	52534	227130	213200	29614	14768	5154	2723	1353	1054
MEAN	32.5	112	1197	1695	8112	6877	987	476	172	87.8	43.6	35.1
MAX	112	409	5500	9000	30000	54600	2680	865	238	124	52	39
MIN	24	36	80	440	400	1650	452	245	126	53	36	31
AC-FT	2000	6680	73590	104200	430500	422900	58740	29290	10220	5400	2680	2090
CAL YR 1974	TOTAL	506858	MEAN	1389	MAX	51100	MIN	24	AC-FT	1005000		
WTR YR 1975	TOTAL	589006	MEAN	1614	MAX	54600	MIN	24	AC-FT	1168000		

Peak discharge (base, 15,000 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
12-27	unknown	--	25,000	3-18	0930	24.73	61,200
2-8	unknown	--	30,000	3-25	0400	14.32	20,400
2-12	unknown	18.78	37,300				

NOTE.--No gage-height record Dec. 27 to Jan. 28, Feb. 1 to Mar. 6.

## 11469000 MATTOLE RIVER NEAR PETROLIA, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: January 1959 to September 1968, water years 1969 to current year (partial-record station).

Water temperatures: November 1965 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 25.5°C July 11, 20, 21, 23, 24; minimum, 4.5°C Jan. 30.

Period of record:

Water temperatures: Maximum (1966-68, 1969-70, 1971 to current year), 28.0°C July 13, 14, 1972, June 26, 1973; minimum (1966-70, 1971 to current year), 3.0°C Jan. 9, 1969, Dec. 11, 1972.

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT. 02...	1235	26	270	8.2	20.5	1	12.3
FEB. 19...	1315	7650	101	8.3	10.0	400	10.9
SEP. 03...	1035	37	260	8.0	19.0	1	9.2

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	15.0	13.5	10.5	11.0	9.0	8.0	6.5	6.5	5.5	12.5	11.0
2	21.0	16.5	13.5	10.0	11.0	10.5	7.5	6.0	7.5	6.5	11.5	11.0
3	20.5	15.0	13.0	9.5	11.0	11.0	8.0	6.0	8.0	6.5	12.0	10.0
4	19.0	14.0	12.5	10.5	11.5	11.0	9.0	8.0	8.0	7.5	12.5	10.0
5	19.0	14.0	13.5	10.5	11.0	10.0	9.5	8.5	8.5	7.5	12.0	11.0
6	19.0	13.0	13.5	11.5	11.5	11.0	11.0	9.5	10.0	8.5	12.5	11.0
7	19.0	13.0	12.5	11.5	12.0	11.0	11.0	10.5	10.5	9.5	12.0	11.0
8	18.0	14.0	11.5	10.5	11.0	10.0	11.0	9.5	11.5	10.5	11.0	10.5
9	19.0	14.0	11.5	10.0	11.0	10.0	9.5	9.0	11.0	9.5	11.5	10.0
10	19.5	14.0	14.0	11.5	10.5	10.0	10.0	9.0	10.5	9.5	11.5	10.0
11	19.0	15.0	13.5	11.5	11.0	10.0	10.0	9.0	10.5	10.0	11.5	9.5
12	20.0	14.0	13.5	11.5	12.0	10.0	9.5	8.5	10.5	9.5	11.5	9.5
13	19.0	13.5	13.0	10.5	10.5	10.0	9.5	8.0	10.5	9.5	11.0	9.5
14	19.0	14.0	13.0	11.0	11.0	10.0	8.5	7.5	9.5	8.5	11.0	9.0
15	19.0	13.5	12.5	10.5	11.5	10.5	8.5	7.0	9.5	8.5	10.0	8.0
16	19.0	13.0	11.5	9.5	11.0	10.0	9.0	7.5	9.5	8.5	10.5	8.0
17	18.5	13.0	11.5	9.5	10.0	9.0	9.5	7.5	9.5	8.0	10.0	9.0
18	18.0	13.5	12.5	10.5	10.0	8.0	9.5	7.5	10.0	9.0	11.0	10.0
19	17.5	13.0	11.5	10.0	10.0	9.0	9.5	7.5	10.5	10.0	11.0	10.0
20	17.0	13.0	11.0	10.0	11.0	10.0	9.5	8.0	10.0	9.0	10.5	9.5
21	17.0	12.0	11.5	10.5	11.0	9.0	9.5	7.5	10.0	8.0	10.0	9.0
22	16.5	11.0	10.5	9.5	9.0	8.0	9.5	8.0	10.0	8.0	9.5	8.5
23	17.0	12.0	10.5	9.5	10.0	7.0	10.0	8.5	10.5	9.0	9.5	9.5
24	16.0	12.0	10.5	9.5	7.5	6.0	10.5	8.5	11.0	9.0	10.5	9.5
25	16.5	12.5	10.5	9.5	8.0	7.0	11.0	10.0	11.0	10.0	10.5	9.5
26	17.0	12.5	9.5	8.5	10.0	8.0	10.5	7.5	10.5	10.0	10.0	8.5
27	14.5	13.5	10.5	9.5	10.0	9.0	7.5	6.5	11.5	10.5	10.5	8.5
28	13.5	12.0	10.5	9.0	9.5	7.5	7.5	6.0	13.0	11.0	10.5	8.5
29	13.5	11.5	10.0	9.0	8.0	7.0	7.5	6.0	---	---	11.5	8.5
30	12.5	10.5	9.5	9.0	8.5	7.5	6.5	4.5	---	---	11.5	9.5
31	13.5	11.5	---	---	7.5	6.0	6.5	5.0	---	---	11.0	8.5
MONTH	21.0	10.5	14.0	8.5	12.0	6.0	11.0	4.5	13.0	5.5	12.5	8.0

## MATTOLE RIVER BASIN

11469000 MATTOLE RIVER NEAR PETROLIA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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



## EEL RIVER BASIN

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## 11470000 LAKE PILLSBURY NEAR POTTER VALLEY, CALIF.

LOCATION.--Lat 39°24'30", long 122°57'30", on line between secs.14 and 23, T.18 N., R.10 W., Lake County, Mendocino National Forest, at Scott Dam near right bank of Eel River, 0.3 mi (0.5 km) downstream from Rice Fork, and 10.2 mi (16.4 km) northeast of town of Potter Valley.

DRAINAGE AREA.--289 mi<sup>2</sup> (749 km<sup>2</sup>).

PERIOD OF RECORD.--October 1922 to September 1928 (daily gage heights only), October 1928 to current year. Monthend contents only for some periods, published in WSP 1315-B. Prior to October 1953, published as "at Hullville."

GAGE.--Water-stage recorder and nonrecording gage. Datum of gage is 81.7 ft (24.90 m) below mean sea level (river-profile survey). Prior to Jan. 26, 1950, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 87,600 acre-ft (108 hm<sup>3</sup>) June 4 (gage height, 1,910.35 ft or 582.275 m); minimum contents, 11,100 acre-ft (13.7 hm<sup>3</sup>) Dec. 27 (gage height, 1,853.92 ft or 565.075 m). Period of record: Maximum contents, 95,600 acre-ft (118 hm<sup>3</sup>) May 13, 16, 1925 (gage height, 1,910.8 ft or 582.41 m); maximum gage height, 1,911.84 ft (582.729 m) Dec. 22, 1964, from floodmarks; minimum contents, 10 acre-ft (12,300 m<sup>3</sup>) Dec. 9, 10, 1931 (gage height, 1,822.5 ft or 555.50 m).

REMARKS.--Reservoir is formed by concrete overflow type dam; storage began in December 1921. Usable capacity, 86,400 acre-ft (107 hm<sup>3</sup>) between gage heights 1,822.4 ft (555.47 m), sill of outlet gate and 1,910.0 ft (582.17 m), top of spillway gates; dead storage, 397 acre-ft (490,000 m<sup>3</sup>); spillway at gage height 1,900.0 ft (579.12 m). Water is released down Eel River to Van Arsdale Reservoir, from which it is diverted through tunnel to Potter Valley powerhouse; part is then used for irrigation and remainder flows into East Fork Russian River. Records given herein represent total contents.

COOPERATION.--Record of contents furnished by Pacific Gas and Electric Co. in connection with a Federal Power Commission project.

## CAPACITY TABLE (GAGE HEIGHT, IN FEET, AND CONTENTS, IN ACRE-FEET)

1,822.4	397	1,840	3,990	1,865	19,100	1,890	48,400
1,824	534	1,845	6,080	1,870	23,500	1,895	56,700
1,827	864	1,850	8,690	1,875	28,700	1,900	65,800
1,830	1,310	1,855	11,800	1,880	34,500	1,905	75,800
1,835	2,410	1,860	15,200	1,885	41,100	1,910	86,800

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48556	31543	14964	14538	24515	67912	68717	84535	86785	81050	73946	65472
2	47950	31080	14538	14433	26147	68777	69855	85210	86785	80920	73645	63634
3	47398	30416	13982	14426	26992	68737	70215	85118	86560	80724	73386	64727
4	46786	29900	18803	14468	28174	68361	70818	85343	86785	80768	73120	63672
5	46300	29369	19050	14715	29829	67833	71746	84714	86785	80550	72947	63391
6	45775	28720	18885	15690	32247	67697	74591	84826	86335	80332	72669	62620
7	45196	28174	18560	16211	37148	70155	73015	84534	86220	80135	72148	61791
8	44462	27634	17993	23267	45670	70698	74070	84534	85885	80004	71840	61327
9	44024	27076	17753	25755	59145	69675	74990	85412	86064	78896	71536	60945
10	43658	26568	17516	27826	66588	68797	76022	85660	85862	79394	71334	60147
11	42996	25825	17049	27688	67931	68285	77183	85660	85210	79111	71030	59501
12	42471	24805	16457	28390	74990	67969	78400	86785	84893	78894	70849	59003
13	41878	24917	16211	28390	72235	67833	79026	86785	84466	78615	70526	58401
14	41266	24265	16061	28555	70015	68029	79852	86491	84535	78379	70376	57816
15	40682	23623	15617	28580	68896	67501	81028	86289	83748	78142	70075	57573
16	40083	23240	15398	28500	68127	67697	81862	85885	83438	77949	69775	57138
17	39520	22671	14964	28555	67793	67754	82306	86335	83238	77736	69375	56636
18	38935	22577	14398	28238	67697	73180	82306	86335	82772	77523	69075	55810
19	38364	21200	13775	28033	69335	72914	82306	86785	82860	77310	68777	54991
20	37796	20693	13466	27850	69155	70035	82306	86785	82528	77099	68579	54362
21	37263	20322	12997	27613	68441	70015	82416	86785	82306	76931	68323	53806
22	36670	19892	12568	27472	67989	69935	82528	86785	82194	76761	68146	53302
23	36096	19384	12056	27098	67773	69455	83238	86785	82150	76592	67793	52755
24	35596	18763	11647	26780	67697	69775	84535	86785	82194	76255	67637	52147
25	34969	18276	11332	26568	67617	74278	84535	86401	82306	76107	67381	51314
26	34349	18074	11140	26044	67597	71402	84535	86514	81928	75833	66936	51008
27	33677	17281	12436	25838	67873	70055	84935	86537	81772	75622	66531	50352
28	34165	16664	14538	25529	68009	69335	84535	86693	81640	75254	66338	49808
29	33085	16211	14715	25119	---	69155	84489	86785	80986	74654	66164	49217
30	32601	15690	14538	24967	---	69155	84535	86785	81182	74320	66049	48617
31	32129	---	14489	24615	---	69015	---	86785	---	74014	65664	---
MAX	48556	31543	19050	28580	74990	74278	84535	86785	86785	81050	73946	65472
MIN	32129	15690	11140	14426	24515	67501	68717	84534	80986	74014	65664	48617
(a)	1,878.00	1,860.70	1,859.03	1,871.10	1,901.16	1,901.67	1,909.00	1,910.00	1,907.49	1,904.13	1,899.95	1,890.13
(b)	-16,700	-16,400	-1,200	+10,100	+43,400	+1,010	+15,500	+2,250	-5,600	-7,170	-8,350	-17,000

CAL YR 1974 b -54,100  
WTR YR 1975 b -177

a Elevation, in feet, at end of month.

b Change in contents, in acre-feet, rounded to Geological Survey standards.

## 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, on left bank 0.4 mi (0.6 km) upstream from Soda Creek, 0.7 mi (1.1 km) downstream from Scott Dam, and 9.7 mi (15.6 km) northeast of town of Potter Valley.

DRAINAGE AREA.--290 mi<sup>2</sup> (751 km<sup>2</sup>).

PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Hullville, and October 1929 to September 1953 as "at Hullville."

GAGE.--Water-stage recorder. Altitude of gage is 1,740 ft (530 m), from topographic map. Prior to Dec. 15, 1930, at datum 3.00 ft (0.914 m) higher.

AVERAGE DISCHARGE.--53 years, 559 ft<sup>3</sup>/s (15.83 m<sup>3</sup>/s), 405,000 acre-ft/yr (499 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 13,700 ft<sup>3</sup>/s (388 m<sup>3</sup>/s) Feb. 13 (gage height, 13.91 ft or 4.240 m), from rating curve extended as explained below; minimum daily, 65 ft<sup>3</sup>/s (1.84 m<sup>3</sup>/s) Jan. 3, 4.  
Period of record: Maximum discharge, 56,300 ft<sup>3</sup>/s (1,590 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 24.24 ft or 7.388 m, from floodmarks), from rating curve extended above 9,400 ft<sup>3</sup>/s (266 m<sup>3</sup>/s) on basis of computed flow over Scott Dam at gage heights 18.50 ft (5.639 m) and 21.85 ft (6.660 m); minimum daily, 0.1 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) Sept. 8, 1924.

REMARKS.--Flow regulated by Lake Pillsbury 0.7 mi (1.1 km) upstream (see sta 11470000). No diversion above station.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 1315-B: 1923(M), 1938(M). WSP 1395: Drainage area. WRD Calif. 1967: 1963-64.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	307	296	102	203	1350	1330	714	409	142	124	121
2	296	312	298	91	87	1800	983	617	409	145	124	197
3	294	313	308	65	127	1680	1180	928	407	147	124	296
4	293	311	254	65	158	1420	903	928	384	147	124	308
5	292	309	210	66	83	1260	694	923	342	145	122	317
6	290	311	249	75	88	1210	799	919	309	144	122	330
7	289	316	278	76	96	2640	610	914	300	141	122	321
8	288	314	285	83	104	4590	330	550	301	139	122	315
9	285	312	290	97	120	3530	330	337	286	137	121	314
10	280	309	295	114	163	2530	272	337	308	137	121	313
11	316	308	295	147	1540	1960	226	337	309	136	121	312
12	310	305	293	194	5370	1570	214	685	311	134	119	312
13	309	308	285	215	11600	1340	214	965	312	133	119	311
14	308	310	281	216	5480	1170	214	944	313	133	119	310
15	307	309	278	225	2990	1060	212	937	315	133	119	305
16	306	309	276	245	1990	1080	301	725	316	131	118	298
17	305	307	278	253	1460	1580	504	559	316	131	118	297
18	304	304	278	254	1190	7310	698	559	251	131	118	284
19	303	301	276	259	2170	7950	698	559	176	130	116	271
20	302	298	271	265	3690	4920	698	556	136	130	116	313
21	303	200	270	265	2260	3990	694	551	137	128	116	312
22	303	282	264	270	1610	4110	428	542	137	128	116	312
23	302	296	260	274	1340	3230	264	535	138	128	115	311
24	305	297	207	273	1210	3780	1100	472	138	128	122	290
25	306	296	130	272	1170	9190	2870	427	138	127	125	283
26	306	291	128	270	1150	5550	1790	418	137	127	125	306
27	308	290	137	269	1120	3750	1170	411	142	127	124	311
28	308	292	174	267	1220	2740	1170	404	145	125	122	310
29	306	294	243	266	---	2130	1160	386	145	125	122	310
30	306	295	202	269	---	1990	1110	391	144	125	122	309
31	307	---	114	276	---	1960	---	409	---	124	121	---
TOTAL	9315	9006	7703	6078	49789	94370	23166	18939	7611	4138	3739	8899
MEAN	300	300	248	196	1778	3044	772	611	254	133	121	297
MAX	316	316	308	276	11600	9190	2870	965	409	147	125	330
MIN	265	200	114	65	83	1060	212	337	136	124	115	121
AC-FT	18480	17860	15280	12060	98760	187200	45950	37570	15100	8210	7420	17650
CAL YR 1974 TOTAL	308460		MEAN 845	MAX 24800	MIN 33	AC-FT 611800						
WTR YR 1975 TOTAL	242753		MEAN 665	MAX 11600	MIN 65	AC-FT 481500						

11470500 EEL RIVER BELOW SCOTT DAM, NEAR POTTER VALLEY, CALIF.--Continued

PERIOD OF RECORD.--Water temperatures: October 1963 to current year.

Sediment records: Water years 1966-67 (partial-record station).

Turbidity: Water years 1966-67, 1969-71 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 20.5°C Oct. 1-3, Sept. 25; minimum, 5.0°C on several days during January and February.

Period of record:

Water temperatures: Maximum, 23.0°C on several days in 1967; minimum (1966-72, 1973 to current year), 4.5°C on several days in 1969.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	20.0	16.5	16.5	11.5	11.5	5.5	5.5	5.5	5.5	7.5	6.5
2	20.5	20.5	16.5	16.5	11.5	11.5	5.5	5.0	5.5	5.5	7.5	7.0
3	20.5	20.0	16.5	16.0	11.5	11.0	5.0	5.0	5.5	5.0	7.5	7.0
4	20.0	20.0	16.0	16.0	11.0	10.5	5.0	5.0	5.5	5.0	8.5	7.5
5	20.0	20.0	16.0	16.0	10.5	10.5	5.0	5.0	6.0	5.5	8.5	8.5
6	20.0	20.0	16.0	15.5	10.5	10.5	5.0	5.0	5.5	5.5	9.0	8.5
7	20.0	19.5	15.5	15.5	10.5	10.0	5.0	5.0	5.5	5.5	9.0	8.5
8	19.5	19.5	15.5	15.5	10.0	9.5	5.0	5.0	5.5	5.5	8.5	8.5
9	20.0	19.5	15.5	15.5	9.5	9.5	5.0	5.0	5.5	5.5	8.5	8.5
10	20.0	19.5	15.5	15.0	9.5	9.5	5.0	5.0	5.5	5.5	9.0	8.5
11	20.0	20.0	15.5	15.0	9.5	9.0	5.0	5.0	6.0	5.5	9.0	9.0
12	20.0	19.5	15.5	15.5	9.0	9.0	5.0	5.0	6.0	6.0	9.0	9.0
13	20.0	19.5	15.5	15.5	9.0	8.5	5.0	5.0	6.0	6.0	9.0	9.0
14	20.0	19.5	15.5	15.5	8.5	8.5	5.0	5.0	6.0	6.0	9.0	9.0
15	20.0	19.5	15.5	15.0	8.5	7.5	5.0	5.0	6.0	6.0	9.0	9.0
16	20.0	19.5	15.0	15.0	7.5	7.5	5.0	5.0	6.0	6.0	9.0	9.0
17	19.5	19.5	15.0	15.0	7.5	7.5	5.5	5.0	6.0	6.0	9.0	9.0
18	19.5	19.0	15.0	15.0	7.5	7.5	5.5	5.5	6.0	6.0	9.0	9.0
19	19.5	19.0	15.0	15.0	7.5	7.0	5.5	5.5	6.0	6.0	9.0	9.0
20	19.0	19.0	15.0	15.0	7.0	7.0	5.5	5.5	6.0	6.0	9.0	9.0
21	19.0	19.0	15.0	14.5	7.0	6.5	5.5	5.5	6.5	6.0	9.0	9.0
22	19.0	18.5	14.5	14.5	6.5	6.5	5.5	5.5	6.5	6.5	9.0	8.5
23	18.5	18.5	14.5	14.0	6.5	6.5	5.5	5.5	6.5	6.5	8.5	8.5
24	18.5	18.5	14.0	14.0	6.5	6.5	5.5	5.5	6.5	6.5	8.5	8.5
25	18.5	17.5	14.0	13.5	6.5	6.0	5.5	5.5	6.5	6.5	8.5	8.5
26	18.5	17.5	13.5	12.5	6.0	6.0	5.5	5.5	6.5	6.5	8.5	8.5
27	18.5	18.5	12.5	12.5	6.0	6.0	5.5	5.5	6.5	6.5	8.5	8.5
28	18.5	18.5	12.5	12.5	6.0	6.0	6.0	5.5	7.0	6.5	8.5	8.5
29	18.5	17.5	12.5	12.0	6.0	6.0	6.0	5.5	---	---	8.5	8.5
30	17.5	16.5	12.0	11.5	6.0	5.5	6.0	6.0	---	---	9.0	8.5
31	16.5	16.5	---	---	5.5	5.5	6.0	5.5	---	---	9.5	9.0
MONTH	20.5	16.5	16.5	11.5	11.5	5.5	6.0	5.0	7.0	5.0	9.5	6.5

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

## EEL RIVER BASIN

## 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, on right bank 100 ft (30 m) downstream from powerhouse of Pacific Gas and Electric Co., 1.8 mi (2.9 km) southwest of Van Arsdale Dam, and 2.9 mi (4.7 km) northwest of town of Potter Valley.

PERIOD OF RECORD.--December 1909 to current year. Prior to October 1922, monthly discharge only, published in WSP 1315-B. Prior to October 1931, published as Snow Mountain Water and Power Co.'s tailrace near Potter Valley.

GAGE.--Water-stage recorder and Parshall flume. Altitude of gage is 1,020 ft (311 m), from topographic map. No gage prior to Dec. 1, 1922. Dec. 1, 1922, to Sept. 30, 1923, nonrecording gage and Oct. 1, 1923, to Apr. 12, 1950, water-stage recorder, at site 50 ft (15 m) upstream at different datum.

AVERAGE DISCHARGE.--65 years (1910-75), 203 ft<sup>3</sup>/s (5.749 m<sup>3</sup>/s), 147,100 acre-ft/yr (181 hm<sup>3</sup>/yr).

EXTREMES.--Period of record (1922 to current year): Maximum daily discharge, 348 ft<sup>3</sup>/s (9.86 m<sup>3</sup>/s) Apr. 24, 1953; no flow at times in several years.

REMARKS.--Water is diverted from Eel River above Van Arsdale Dam. After passing through powerhouse, part of it is used for irrigation in Potter Valley and remainder flows into East Fork Russian River. Water for irrigation diverted from tailrace is included in figures of discharge.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 1395: 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	279	297	293	137	290	288	284	289	293	134	134	138
2	281	297	296	134	289	288	286	287	294	132	132	172
3	263	297	290	99	276	287	285	286	295	136	132	311
4	281	297	288	117	288	287	285	286	295	137	132	308
5	273	298	256	122	287	264	284	250	294	142	133	307
6	263	283	267	274	287	284	284	279	291	145	133	306
7	271	297	288	280	287	283	284	291	250	146	132	305
8	289	297	294	285	282	290	283	290	146	146	135	305
9	289	297	290	286	247	294	282	289	170	145	133	305
10	289	297	297	286	285	291	284	289	285	142	134	305
11	284	280	298	273	285	285	286	289	291	143	134	304
12	292	284	298	284	229	283	283	289	293	146	134	305
13	292	297	300	285	277	283	283	293	292	147	128	304
14	289	297	300	284	289	282	284	176	290	146	130	304
15	295	297	300	280	290	285	284	202	289	146	134	305
16	305	297	286	284	293	285	284	286	291	140	137	304
17	298	297	268	288	295	277	284	287	288	138	134	302
18	303	297	279	289	264	263	278	286	255	137	133	267
19	302	297	268	285	222	288	287	287	162	139	133	262
20	298	294	268	289	192	287	287	282	132	143	133	303
21	307	212	277	288	217	283	243	238	130	143	134	302
22	305	280	273	285	216	255	290	288	130	143	133	303
23	284	295	267	288	216	294	217	289	129	141	131	300
24	295	293	241	289	217	284	284	289	130	139	133	294
25	295	295	150	286	215	255	269	289	131	139	136	286
26	296	296	150	287	215	280	284	288	133	139	136	299
27	297	293	224	279	214	279	285	288	134	139	137	300
28	290	292	285	281	248	277	285	268	134	139	136	301
29	293	290	277	277	---	276	284	292	133	195	136	301
30	297	293	255	276	---	276	285	293	135	141	136	300
31	297	---	162	175	---	242	---	292	---	132	137	---
TOTAL	8992	8733	8285	7872	7212	8675	8407	8627	6515	4420	4145	8708
MEAN	290	291	267	254	258	280	280	278	217	143	134	290
MAX	307	298	300	289	295	294	290	293	295	195	137	311
MIN	263	212	150	99	192	242	217	176	129	132	128	138
AC-FT	17840	17320	16430	15610	14300	17210	16680	17110	12920	8770	8220	17270
CAL YR 1974 TOTAL	90186.67			MEAN 247	MAX 320	MIN	.87	AC-FT 178900				
WTR YR 1975 TOTAL	90591.00			MEAN 248	MAX 311	MIN	99	AC-FT 179700				

## 11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to September 1965, water year 1966 (partial-record station). Published as "East Fork Russian River at Potter Valley" in 1952-59.

Water temperatures: March 1964 to current year.

Sediment records: March 1964 to May 1968.

Turbidity: Water years 1964-71 (partial-record station).

## EXTREMES.--Current year:

Water temperatures: Maximum, 21.5°C on several days during October and September; minimum, 2.5°C Feb. 2.

Period of record:

Water temperatures (1964-65, 1966 to current year): Maximum (1967 to current year), 25.0°C July 27-29, Aug. 1, 2, 1974; minimum, 2.5°C Feb. 2, 1975.

REMARKS.--Recorder stopped Oct. 4-9, Oct. 12 to Nov. 4; range in temperature, 16.5°C to 20.5°C and 11.5°C to 18.0°C, respectively.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	18.0	---	---	10.0	9.0	4.5	3.5	4.5	3.0	7.5	6.5
2	21.5	19.0	---	---	10.5	10.0	4.0	3.5	4.0	2.5	8.0	7.5
3	21.0	18.5	---	---	10.5	9.5	4.5	3.5	5.0	4.0	8.0	7.0
4	---	---	---	---	10.0	9.5	5.5	4.5	5.5	4.0	9.0	7.0
5	---	---	14.0	12.0	9.5	9.0	5.5	5.0	5.5	5.5	8.5	7.5
6	---	---	14.5	12.5	10.5	9.5	7.5	5.5	5.5	5.5	9.0	8.0
7	---	---	14.5	13.5	10.0	9.5	8.0	7.5	6.0	5.5	8.5	7.5
8	---	---	13.5	12.0	10.0	9.0	8.0	7.0	7.0	6.0	8.5	7.5
9	---	---	14.0	12.0	9.5	8.5	7.0	5.5	7.0	7.0	8.5	7.5
10	18.0	16.0	14.5	13.0	9.5	8.0	7.0	6.0	7.5	7.0	9.0	7.5
11	18.0	16.0	14.0	12.0	10.0	9.5	7.0	6.0	7.0	7.0	10.0	8.0
12	---	---	13.5	12.0	10.0	10.0	6.0	5.5	7.0	6.5	9.5	8.0
13	---	---	13.5	12.0	10.0	8.5	6.0	5.0	6.5	6.0	8.5	8.0
14	---	---	13.5	12.0	9.0	8.5	5.5	4.5	6.0	6.0	9.5	7.5
15	---	---	13.5	12.0	9.0	9.0	5.5	4.5	6.0	5.5	8.5	7.5
16	---	---	13.0	12.0	9.0	8.0	6.0	5.0	6.5	6.0	9.0	7.0
17	---	---	13.5	12.5	9.0	8.0	6.0	5.0	6.5	5.5	7.5	7.0
18	---	---	13.5	12.5	8.0	7.0	6.0	5.0	6.0	6.0	7.5	7.5
19	---	---	13.0	11.5	8.0	7.0	6.0	5.0	7.0	6.0	8.0	7.5
20	---	---	12.5	12.0	8.0	7.0	6.0	5.0	6.5	6.0	8.5	7.5
21	---	---	13.0	12.0	8.5	8.0	6.0	5.0	7.0	6.0	8.0	7.0
22	---	---	12.0	11.0	8.0	6.5	6.0	5.5	7.0	5.5	7.5	7.0
23	---	---	12.0	10.5	7.5	6.0	6.0	5.5	7.0	5.5	8.0	7.0
24	---	---	12.0	10.5	6.5	5.5	6.5	5.5	7.0	6.0	8.0	7.5
25	---	---	12.0	11.5	6.5	5.5	7.0	5.5	7.0	6.0	9.5	7.5
26	---	---	11.5	10.0	7.0	6.0	7.0	6.0	7.0	5.5	8.5	7.0
27	---	---	11.0	10.5	7.5	7.0	6.0	4.5	8.0	6.5	8.5	7.0
28	---	---	11.0	9.5	7.5	5.5	5.5	4.0	8.0	6.5	8.5	7.0
29	---	---	10.0	9.0	6.0	4.5	5.0	4.0	---	---	9.0	7.0
30	---	---	10.0	9.0	6.0	5.5	5.0	4.0	---	---	9.0	7.0
31	---	---	---	---	5.5	3.5	5.0	3.5	---	---	9.5	7.5
MONTH	---	---	14.5	9.0	10.5	3.5	8.0	3.5	8.0	2.5	10.0	6.5

## EEL RIVER BASIN

11471000 POTTER VALLEY POWERHOUSE TAILRACE NEAR POTTER VALLEY, CALIF.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	7.0	13.0	10.0	18.0	13.0	17.5	14.5	19.5	16.0	19.5	16.5
2	9.0	7.0	13.5	10.0	17.5	13.5	18.0	15.0	20.0	16.5	19.5	16.5
3	8.5	7.5	12.0	10.5	18.0	13.0	18.0	15.5	20.0	16.5	19.0	15.5
4	9.0	7.0	12.5	10.5	18.0	13.0	17.5	16.0	20.0	16.5	19.0	15.5
5	9.0	7.0	13.5	10.5	18.5	13.5	18.0	15.0	20.5	17.5	19.5	16.0
6	9.0	7.5	13.5	10.0	18.0	13.5	19.0	16.0	20.5	17.5	19.5	16.0
7	9.0	7.5	14.0	10.0	18.5	14.0	19.5	16.5	19.5	16.5	19.5	16.0
8	9.0	7.5	15.5	10.5	18.0	14.0	19.5	17.0	20.0	17.0	19.5	16.0
9	10.0	6.5	14.0	11.0	18.0	13.5	20.0	17.0	20.5	17.5	19.0	17.0
10	10.5	7.5	13.5	11.0	17.5	13.5	20.0	17.0	20.5	18.0	17.5	16.5
11	11.0	8.0	14.5	10.5	18.0	13.5	20.0	16.5	20.5	18.0	20.0	16.5
12	11.5	8.0	14.5	10.5	18.0	13.5	20.5	18.0	20.5	18.0	20.0	17.0
13	11.0	8.5	15.5	12.0	18.5	14.0	20.5	17.5	20.5	18.0	20.0	17.0
14	10.5	8.5	15.5	12.5	18.5	14.0	20.5	18.0	20.5	18.0	20.0	17.5
15	9.5	7.0	15.5	12.5	18.5	14.0	20.0	17.0	20.5	18.5	20.0	17.5
16	8.0	7.0	16.5	12.0	18.0	14.0	19.5	16.0	20.5	18.0	20.0	17.0
17	11.0	7.0	16.5	12.0	17.0	14.0	19.5	17.0	20.5	18.0	20.0	17.0
18	11.5	8.5	16.5	12.5	17.5	13.0	18.0	16.0	20.5	18.5	20.5	17.0
19	11.5	8.5	16.0	13.5	17.5	14.5	18.5	16.5	20.5	18.5	20.5	18.0
20	12.0	9.0	15.5	12.0	19.0	15.0	19.0	16.0	21.0	18.5	21.0	17.5
21	12.5	9.0	16.0	12.0	19.5	15.5	19.0	17.0	21.0	19.0	21.0	18.0
22	11.0	9.0	16.0	12.5	19.0	16.0	19.0	16.5	21.0	18.5	21.0	18.5
23	11.0	9.0	16.5	12.0	18.0	16.0	19.5	17.0	21.0	18.5	21.5	18.0
24	10.0	9.0	17.0	12.5	16.5	15.0	20.0	17.5	21.0	18.5	21.5	18.5
25	10.0	9.0	17.0	12.5	17.5	13.5	20.5	18.0	21.0	18.5	21.5	18.5
26	12.0	9.0	17.0	12.5	19.0	15.0	20.5	18.0	21.0	19.0	21.5	18.5
27	12.5	9.5	17.0	12.5	19.0	15.5	20.5	18.0	20.5	18.0	21.0	18.0
28	11.5	9.5	17.5	13.0	18.5	15.0	20.5	18.5	19.5	17.0	21.0	18.0
29	12.0	9.5	17.5	13.0	18.5	15.5	20.5	18.5	19.5	17.0	21.0	18.0
30	12.0	10.0	18.0	13.5	18.0	15.0	19.5	16.0	19.0	17.0	21.5	18.5
31	---	---	17.5	13.0	---	---	19.5	16.0	19.0	16.5	---	---
MONTH	12.5	6.5	18.0	10.0	19.5	13.0	20.5	14.5	21.0	16.0	21.5	15.5

## 11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CALIF.

LOCATION.--Lat 39°23'19", long 123°06'54", in NE¼ sec.30, T.18 N., R.11 W., Mendocino County, on left bank 1,000 ft (305 m) downstream from Van Arsdale Dam, and 4.6 mi (7.4 km) north of town of Potter Valley.

DRAINAGE AREA.--349 mi<sup>2</sup> (904 km<sup>2</sup>).

PERIOD OF RECORD.--November 1909 to September 1922 (combined monthly discharge only, of Eel River at this station and Snow Mountain Water and Power Co.'s tailrace near Potter Valley), October 1922 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1929, published as South Eel River at Van Arsdale Dam, near Potter Valley.

GAGE.--Water-stage recorder. Altitude of gage is 1,400 ft (427 m), from topographic map, Nov. 18, 1909, to Mar. 3, 1927, recorder in reservoir 800 ft (244 m) upstream from Van Arsdale Dam at different datum. Oct. 1, 1927, to Feb. 28, 1937, nonrecording gage at present site and datum.

AVERAGE DISCHARGE (combined flow of Eel River at Van Arsdale Dam and Potter Valley powerhouse tailrace).--66 years (1909-75), 650 ft<sup>3</sup>/s (18.41 m<sup>3</sup>/s), 470,900 acre-ft/yr (581 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 18,900 ft<sup>3</sup>/s (535 m<sup>3</sup>/s) Feb. 13 (gage height, 19.49 ft or 5.941 m); minimum daily, 1.3 ft<sup>3</sup>/s (0.037 m<sup>3</sup>/s) Oct. 9.

Period of record: Maximum discharge, 64,100 ft<sup>3</sup>/s (1,820 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 33.9 ft or 10.33 m, from floodmarks); no flow at times.

REMARKS.--Flow regulated by Lake Pillsbury 11 mi (18 km) upstream (see sta 11470000). Water is diverted from Van Arsdale Reservoir through tunnel to Potter Valley powerhouse (see sta 11471000) after which part is used for irrigation and remainder flows into East Fork Russian River. Records given herein show only flow passing dam down Eel River.

COOPERATION.--Records collected by Pacific Gas and Electric Co., under general supervision of the Geological Survey, in connection with a Federal Power Commission project.

REVISIONS (WATER YEARS).--WSP 1315-B: 1913, 1920-23, 1925-27. WSP 1395: 1923(M), 1938.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.1	4.3	3.4	9.3	87	1250	1440	617	122	3.9	2.7	4.2
2	3.9	4.3	51	5.1	86	1770	877	335	120	4.0	2.9	4.0
3	3.9	4.3	165	5.0	34	1710	1090	710	120	4.2	3.0	3.4
4	3.3	4.3	165	4.5	311	1400	905	703	103	4.3	3.2	3.4
5	2.3	4.3	7.4	4.7	47	1230	569	731	65	4.4	3.5	3.4
6	1.8	4.3	3.8	278	192	1130	667	686	30	4.4	3.7	3.7
7	2.3	14	3.8	57	744	2410	545	666	48	4.2	3.8	4.3
8	2.7	11	3.8	517	890	4750	201	438	154	4.0	3.8	4.5
9	1.3	6.8	3.8	90	1920	3620	188	111	120	3.8	3.9	4.6
10	1.7	5.3	4.0	34	1340	2590	150	107	16	3.5	3.9	4.4
11	1.8	28	4.1	7.9	1860	2010	91	105	5.9	3.5	4.0	4.4
12	1.6	18	15	11	7050	1600	77	285	4.3	3.6	4.1	4.6
13	1.5	4.3	18	19	15900	1320	71	690	3.7	3.6	4.1	4.6
14	1.6	6.9	11	7.9	6710	1120	69	805	3.5	3.5	4.2	4.4
15	4.3	4.3	11	5.3	3230	964	62	771	3.3	3.5	4.6	4.2
16	6.8	5.3	9.0	6.1	2140	1010	104	521	3.3	3.5	4.5	3.8
17	6.6	8.1	28	11	1570	1830	251	288	3.2	3.5	4.4	3.2
18	6.4	11	14	5.8	1230	9810	454	284	3.2	3.8	4.4	3.2
19	6.1	3.1	22	5.1	2510	10600	442	282	3.4	4.0	4.5	3.3
20	5.9	2.2	19	5.1	4140	5640	442	284	4.2	4.1	4.7	3.3
21	5.2	5.0	5.1	5.4	2510	4470	483	327	4.2	4.1	4.6	3.6
22	5.1	2.3	4.7	5.3	1830	4680	265	263	4.2	4.0	4.5	3.6
23	4.6	2.3	4.1	9.1	1470	3450	136	252	4.2	3.9	4.4	3.8
24	4.3	2.4	4.0	5.6	1290	4380	797	214	4.2	3.8	4.4	3.9
25	3.9	16	4.0	5.2	1230	12900	2610	157	4.2	3.8	4.7	3.5
26	3.7	4.6	4.0	5.2	1180	6700	1780	148	4.1	3.8	4.7	3.1
27	8.3	2.3	234	5.1	1120	3900	1050	140	4.0	5.0	4.6	3.2
28	26	3.2	35	5.0	1160	2790	1020	154	4.0	5.5	4.6	3.3
29	6.0	3.4	12	4.9	---	2210	1000	114	4.2	4.6	4.6	3.3
30	4.3	3.4	22	4.9	---	2030	948	105	4.2	1.7	4.5	3.3
31	4.3	---	5.6	109	---	1990	---	122	---	2.1	4.4	---
TOTAL	144.6	199.0	896.6	1253.5	63781	107264	18784	11415	977.5	119.6	127.9	113.5
MEAN	4.66	6.63	28.9	40.4	2278	3460	626	368	32.6	3.86	4.13	3.78
MAX	26	28	234	517	15900	12900	2610	805	154	5.5	4.7	4.6
MIN	1.3	2.2	3.4	4.5	34	964	62	105	3.2	1.7	2.7	3.1
AC-FT	287	395	1780	2490	126500	212800	37260	22640	1940	237	254	225

CAL YR 1974 TOTAL 289680.17 MEAN 794 MAX 31700 MIN .48 AC-FT 574600  
WTR YR 1975 TOTAL 205076.20 MEAN 562 MAX 15900 MIN 1.3 AC-FT 406800

11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1972-75 (partial-record station).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS-CHARGE (CFS)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL NITRO-GEN IN BOTTOM MATERIAL (N) (MG/KG)
OCT. 10...	0900	.58	.03	.00	.03	.03	.16	.19	40
JAN. 10...	0900	45	.05	.00	.05	.01	.18	.19	--
FEB. 11...	0800 1780		.05	.01	.06	.01	.40	.41	--

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO-PHOS-PHATE (P04) (MG/L)	DIS-SOLVED ORTHO-PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MATERIAL (MG/KG)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TEMPER-ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MATERIAL (C) (G/KG)
OCT. 10...	.01	.00	.00	420	188	16.5	1.7	.1
JAN. 10...	.08	.03	.01	--	276	7.5	2.6	--
FEB. 11...	.11	.25	.08	--	107	6.0	7.4	--

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MATERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MATERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MATERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)
OCT. 10...	0900	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00
JAN. 10...	0900	.00	--	.0	--	.00	--	.00	--	.00	--	.00

DATE	TOTAL DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MATERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM MATERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MATERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MATERIAL (UG/KG)	TOTAL MALA-THION (UG/L)
OCT. 10...	.00	.0	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
JAN. 10...	.00	--	.00	--	.00	.00	--	.00	--	.00	--	.00

DATE	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MATERIAL (UG/KG)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOTTOM MATERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT. 10...	.00	.00	.00	.0	0	0	0	.00	.00	.00	.00
JAN. 10...	.00	.00	.00	.0	--	0	--	.00	.00	.00	.00



11471500 EEL RIVER AT VAN ARSDALE DAM, NEAR POTTER VALLEY, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)
OCT. 10...	0900	2	1	1	12	<10	<10	0	<1	0	26
JAN. 10...	0900	0	0	0	--	10	9	1	--	20	--
FEB. 11...	0800	3	2	1	--	10	9	1	--	40	--

DATE	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS- PENDE COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS- PENDE COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE LEAD (PB) (UG/L)
OCT. 10...	0	<50	<50	0	25	<10	<9	1	23	<100	<97
JAN. 10...	0	<50	<50	0	--	67	64	3	--	<100	<96
FEB. 11...	<10	<50	<50	0	--	50	42	8	--	200	200

DATE	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 10...	3	<10	.0	.0	.0	.0	10	0	10	43
JAN. 10...	4	--	.1	.1	.0	--	70	50	20	--
FEB. 11...	4	--	.5	.2	.3	--	30	20	6	--

## EEL RIVER BASIN

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, on left bank 1,100 ft (335 m) upstream from Outlet Creek, and 6.3 mi (10.1 km) south of Dos Rios.

DRAINAGE AREA.--528 mi<sup>2</sup> (1,368 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 1,001.28 ft (305.190 m) above mean sea level.

AVERAGE DISCHARGE.--9 years, 1,152 ft<sup>3</sup>/s (32.62 m<sup>3</sup>/s), 834,600 acre-ft/yr (1.03 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 29,300 ft<sup>3</sup>/s (830 m<sup>3</sup>/s) Feb. 13 (gage height, 20.63 ft or 6.288 m), from rating curve extended as explained below; minimum daily, 4.5 ft<sup>3</sup>/s (0.13 m<sup>3</sup>/s) Aug. 15.

Period of record: Maximum discharge, 65,500 ft<sup>3</sup>/s (1,850 m<sup>3</sup>/s) Jan. 16, 1974 (gage height, 33.64 ft or 10.253 m), from rating curve extended above 26,000 ft<sup>3</sup>/s (736 m<sup>3</sup>/s) on basis of slope-area measurement of peak flow; minimum daily, 1.8 ft<sup>3</sup>/s (0.051 m<sup>3</sup>/s) Oct. 7, 8, 1970.

Flood of Dec. 22, 1964, reached a stage of 45.52 ft (13.874 m), from information by local resident (discharge, 100,000 ft<sup>3</sup>/s or 2,830 m<sup>3</sup>/s).

REMARKS.--Records good. Flow partly regulated by Lake Pillsbury 40 mi (64 km) upstream (see sta 11470000) and by diversion through Potter Valley powerhouse (see sta 11471000).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	16	15	212	1210	1510	2370	1120	152	23	9.0	7.8
2	7.4	13	119	180	2870	2240	1390	540	152	22	8.6	7.8
3	7.4	11	809	152	2070	2170	1560	883	147	22	7.4	7.6
4	7.4	10	1140	130	3310	1820	1650	965	142	22	5.1	7.2
5	7.4	10	232	160	2410	1600	1130	965	122	21	4.6	6.5
6	7.4	10	101	1730	2940	1490	1210	912	95	21	5.1	6.4
7	7.4	16	62	675	4330	3710	1190	877	75	21	5.1	5.8
8	7.4	19	49	3750	3830	8070	725	849	86	20	5.1	5.3
9	7.4	22	39	1500	6910	5430	619	349	160	19	5.3	5.1
10	7.8	19	32	912	5530	3980	570	293	126	18	5.8	5.1
11	8.2	16	30	602	3300	2900	453	282	62	16	5.8	6.6
12	8.2	16	70	392	12300	2250	401	267	47	16	5.8	7.0
13	8.2	26	111	297	24000	1870	367	731	39	15	5.8	7.3
14	8.2	22	142	227	10500	1630	354	860	35	13	5.1	7.0
15	8.2	13	114	167	5410	1570	337	923	30	15	4.5	6.5
16	8.2	11	89	135	3380	2000	312	789	29	19	4.8	6.5
17	8.2	11	65	114	2380	7800	413	431	26	21	5.1	6.5
18	8.2	13	65	108	1870	20700	624	405	25	19	6.5	6.4
19	8.2	20	56	92	5900	17000	669	380	25	16	7.8	5.9
20	8.2	19	49	86	6690	9260	658	369	25	15	16	5.4
21	8.2	27	49	83	4010	10000	680	550	25	15	16	5.4
22	8.2	33	35	77	2750	10600	635	388	25	15	11	5.4
23	8.2	32	23	72	2110	7400	301	255	25	13	8.4	5.3
24	8.2	21	23	67	1800	9300	1480	312	26	12	7.4	5.1
25	8.2	27	23	67	1650	21300	3290	236	29	11	7.7	5.3
26	8.2	29	23	65	1550	10800	2690	210	29	10	7.1	5.4
27	9.9	30	1470	60	1460	6610	1470	194	29	9.9	6.4	5.3
28	32	22	800	56	1450	4750	1360	186	26	8.6	7.1	5.1
29	49	17	490	54	---	3570	1310	189	25	7.0	7.1	5.1
30	29	16	350	52	---	2950	1260	152	23	7.0	7.8	5.1
31	19	---	270	77	---	2750	---	145	---	8.6	7.8	---
TOTAL	344.5	567	6945	12351	127920	189030	31478	16007	1862	491.1	222.1	182.2
MEAN	11.1	18.9	224	398	4569	6098	1049	516	62.1	15.8	7.16	6.07
MAX	49	33	1470	3750	24000	21300	3290	1120	160	23	16	7.8
MIN	7.4	10	15	52	1210	1490	301	145	23	7.0	4.5	5.1
AC-FT	683	1120	13780	24500	253700	374900	62440	31750	3690	974	441	361
CAL YR 1974 TOTAL	515982.4			1414	MAX 56200	MIN 7.4	AC-FT 1023000					
WTR YR 1975 TOTAL	387399.9			1061	MAX 24000	MIN 4.5	AC-FT 768400					

## 11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), October 1958 to current year.  
 Water temperatures: October 1966 to current year.  
 Sediment records: October 1966 to current year.  
 Turbidity: Water years 1967-68 (partial-record station).

## EXTREMES.--Current year:

Water temperatures: Maximum, 29.0°C Aug. 11; minimum, 3.0°C Feb. 1.  
 Sediment concentrations: Maximum daily, 1,520 mg/l Feb. 12; minimum daily, 1 mg/l on many days.  
 Sediment discharge: Maximum daily, 95,400 tons (86,500 tonnes) Feb. 13; minimum daily, 0.01 ton (0.01 tonne) on several days during September.

## Period of record:

Water temperatures (1966-67, 1968 to current year): Maximum (1971 to current year), 31.0°C July 17, 1972; minimum, 1.0°C Dec. 12, 1972.  
 Sediment concentrations: Maximum daily, 4,740 mg/l Jan. 16, 1974; minimum daily, 0 mg/l on several days in 1969-70, 1973.  
 Sediment discharge: Maximum daily, 729,000 tons (661,000 tonnes) Jan. 16, 1974; minimum daily, 0 tons (0 tonnes) on several days in 1969-70, 1973.

REMARKS.--The letter "A" following a date indicates chemical-quality data 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 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
OCT.								
03...A	0930	--	7.4	236	8.1	17.0	0	9.2
10...	1245	--	8.0	234	--	18.0	--	--
NOV.								
14...A	0920	--	17	279	7.9	11.5	0	10.5
DEC.								
04...A	0900	--	1270	154	7.6	10.0	130	10.3
JAN.								
08...A	1335	3750	--	93	7.6	9.0	150	11.5
09...	1100	--	1130	129	--	5.5	--	--
FEB.								
10...	1500	--	4650	85	--	7.5	--	--
20...A	0945	--	7070	94	7.7	7.0	166	12.2
MAR.								
12...A	0715	--	2360	115	8.1	8.0	49	10.4
APR.								
16...A	1025	--	312	158	7.6	10.0	5	10.5
MAY								
14...A	1005	--	794	135	7.6	14.0	10	9.3
JUNE								
11...A	0755	--	62	176	8.0	21.0	2	7.9
JULY								
09...A	0930	--	19	230	8.2	23.0	0	8.4
AUG.								
13...A	0915	--	5.8	242	8.1	23.0	1	7.8
SEP.								
04...A	0945	--	7.0	227	8.2	20.0	0	8.3

DATE	TIME	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CaCO3 (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)
OCT.											
03...A	0930	7.4	--	--	8.8	114	0	94	3.7	.03	--
10...	1245	8.0	--	--	--	--	--	--	--	--	.14
JAN.											
09...	1100	1130	--	--	--	--	--	--	--	--	.15
FEB.											
10...	1500	4650	--	--	--	--	--	--	--	--	.02
20...A	0945	7070	--	--	4.2	51	0	42	.3	.10	--
APR.											
16...A	1025	312	450	10	4.6	80	0	66	4.5	.01	--
SEP.											
04...A	0945	7.0	--	--	9.5	104	0	85	4.4	.10	--

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	AMMONIA NITRO-GEN (N) (MG/L)	TOTAL ORGANIC NITRO-GEN (N) (MG/L)	TOTAL KJEL-DAHL NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED ORTHO PHOS-PHATE (PO4) (MG/L)	DIS-SOLVED ORTHO PHOS-PHORUS (P) (MG/L)	TOTAL PHOS-PHORUS IN BOT-TOM MA-TERIAL (MG/KG)	HARD-NESS (CA, MG) (MG/L)
OCT. 03...	--	--	--	--	--	--	--	--	--	96
10...	.00	.14	.08	.31	.39	.23	.00	.00	1070	--
JAN. 09...	.00	.15	.01	.42	.43	.16	.03	.01	--	--
FEB. 10...	.01	.03	.02	.32	.34	.16	.15	.05	--	--
20...	--	--	--	--	--	--	--	--	--	44
APR. 16...	--	--	--	--	.00	.01	--	--	--	70
SEP. 04...	--	--	--	--	--	--	--	--	--	95

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 OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT-TOM MA-TERIAL (C) (G/KG)
OCT. 03...	--	.4	236	8.1	17.0	0	9.2	1.4	--	--
10...	--	--	234	--	18.0	--	--	--	.9	.2
JAN. 09...	--	--	129	--	5.5	--	--	--	3.0	--
FEB. 10...	--	--	85	--	7.5	--	--	--	4.8	--
20...	2	.3	94	7.7	7.0	166	12.2	1.6	--	--
APR. 16...	4	.2	158	7.6	10.0	5	10.5	3.2	--	--
SEP. 04...	10	.4	227	8.2	20.0	0	8.3	1.0	--	--

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL CHLOR-DANE (UG/L)	CHLOR-DANE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL DI-AZINON (UG/L)
OCT. 10...	1245	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00
JAN. 09...	1100	.00	--	.0	--	.00	--	.00	--	.00	--	.00

DATE	TOTAL DIELDRIN (UG/L)	DI-ELDRIN IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL MALA-THION (UG/L)
OCT. 10...	.00	.0	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
JAN. 09...	.00	--	.00	--	.00	.00	--	.00	--	.00	--	.00

DATE	TOTAL METHYL PARA-THION (UG/L)	TOTAL METHYL TRI-THION (UG/L)	TOTAL PARA-THION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TOX-APHENE (UG/L)	TOX-APHENE IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT. 10...	.00	.00	.00	.0	0	0	0	.00	.00	.00	.00
JAN. 09...	.00	.00	.00	.0	--	0	--	.00	.00	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

[illegible]

	SUS- PENDE LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
OCT. 03... 10... JAN. 09... FEB. 10... 20... APR. 16... SEP. 04...	-- <97 97 94 --	-- 3 3 6 --	-- <10 -- -- --	-- .0 1.4 .5 --	-- .0 .0 1.5 --	-- .0 -- .4 --	-- .0 -- -- --	-- 50 60 40 -- 0 -- --	-- 40 0 40 -- -- -- --	-- 10 80 0 -- -- -- --	-- 36 -- -- -- -- -- --

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	14.0	10.0	---	3.0	9.0	10.5	---	---	---	---	25.5
2	22.5	14.5	10.0	5.0	6.0	10.0	9.5	16.0	---	25.0	---	---
3	---	---	10.0	4.5	6.0	9.0	9.0	---	---	---	---	21.5
4	21.0	---	10.0	4.0	5.0	---	8.0	---	25.5	24.5	27.0	---
5	---	13.0	9.5	5.0	5.0	9.0	8.0	14.0	---	---	---	26.5
6	---	---	10.5	8.0	6.0	10.0	10.5	---	21.0	---	25.0	---
7	21.0	13.5	11.0	7.5	---	11.0	7.5	17.0	---	28.0	---	---
8	---	10.0	10.0	7.5	9.0	9.0	11.0	---	---	---	28.0	25.5
9	17.0	11.5	10.0	6.0	8.0	---	12.0	18.5	22.0	26.0	---	---
10	---	---	---	7.5	8.0	9.0	12.5	---	---	---	---	24.5
11	---	---	10.5	8.0	8.5	10.0	14.0	---	26.5	25.0	29.0	---
12	---	14.0	12.0	6.5	8.0	10.0	12.0	19.0	---	---	---	24.0
13	---	12.5	9.0	8.5	9.0	8.5	14.0	---	28.5	---	28.5	---
14	---	14.0	8.0	---	7.5	8.5	---	10.5	---	21.0	---	---
15	---	---	---	8.0	7.5	9.0	11.5	---	---	---	28.0	---
16	19.5	13.5	9.5	7.5	---	8.0	---	14.5	22.5	25.5	---	---
17	---	---	9.0	8.0	---	7.0	11.5	---	---	---	---	24.0
18	23.0	10.5	---	8.5	7.0	8.0	12.0	---	25.5	28.5	24.5	---
19	---	12.0	9.0	8.0	8.0	9.0	---	16.0	---	---	---	24.0
20	---	---	10.5	8.0	7.0	9.0	15.0	---	23.5	---	26.0	---
21	20.0	12.0	10.0	8.0	6.0	6.5	15.5	17.5	---	27.5	---	---
22	---	---	6.5	9.5	7.0	7.5	---	---	---	---	---	---
23	16.0	11.5	7.0	---	7.0	7.5	10.5	21.0	21.5	28.5	---	---
24	---	10.0	5.5	10.0	9.5	8.0	10.5	---	---	---	---	---
25	15.5	11.0	---	8.0	9.0	---	10.5	---	22.0	---	27.5	---
26	---	10.0	7.0	8.0	9.5	8.5	9.0	20.5	---	---	25.0	23.5
27	14.0	10.0	7.0	7.0	11.0	9.5	14.0	---	21.0	---	22.5	---
28	13.5	---	6.0	5.5	---	10.0	14.5	20.5	---	---	---	---
29	12.5	9.5	6.0	6.0	---	---	15.0	---	---	---	25.5	21.5
30	---	9.5	6.5	---	---	---	15.5	23.0	27.5	---	---	---
31	---	---	5.0	---	---	---	---	---	---	---	---	---
MONTH	---	---	8.5	7.0	7.5	9.0	11.5	---	---	---	---	---

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7.4	1	.02	16	2	.09	15	1	.04
2	7.4	1	.02	13	3	.11	119	65	39
3	7.4	1	.02	11	3	.09	809	334	1530
4	7.4	1	.02	10	2	.05	1140	262	935
5	7.4	1	.02	10	2	.05	232	75	47
6	7.4	1	.02	10	2	.05	101	29	7.9
7	7.4	2	.04	16	2	.09	62	17	2.8
8	7.4	1	.02	19	5	.26	49	9	1.2
9	7.4	1	.02	22	2	.12	39	5	.53
10	7.8	2	.04	19	3	.15	32	5	.43
11	8.2	2	.04	16	3	.13	30	6	.49
12	8.2	2	.04	16	3	.13	70	10	1.9
13	8.2	2	.04	26	2	.14	111	6	1.8
14	8.2	2	.04	22	1	.06	142	2	.77
15	8.2	2	.04	13	1	.04	114	5	1.5
16	8.2	2	.04	11	3	.09	89	5	1.2
17	8.2	2	.04	11	5	.15	65	6	1.1
18	8.2	2	.04	13	8	.28	65	8	1.4
19	8.2	2	.04	20	2	.11	56	4	.60
20	8.2	2	.04	19	2	.10	49	3	.40
21	8.2	6	.13	27	5	.36	49	3	.40
22	8.2	4	.09	33	3	.27	35	3	.28
23	8.2	2	.04	32	2	.17	23	3	.19
24	8.2	2	.04	21	1	.06	23	3	.19
25	8.2	2	.04	27	2	.15	23	4	.25
26	8.2	2	.04	29	1	.08	23	4	.25
27	9.9	3	.08	30	1	.08	1470	750	2980
28	32	11	.95	22	1	.06	800	240	518
29	49	2	.26	17	1	.05	490	57	75
30	29	2	.16	16	1	.04	350	25	24
31	19	3	.15	---	---	---	270	14	10
MONTH	344.5	---	2.62	567	---	3.61	6945	---	6183.62

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	212	12	6.9	1210	252	1180	1510	50	204
2	180	11	5.3	2870	170	1320	2240	114	702
3	152	13	5.3	2070	108	745	2170	81	475
4	130	40	14	3310	218	1950	1820	57	280
5	160	30	13	2410	87	566	1600	44	190
6	1730	600	2800	2940	167	1460	1490	40	161
7	675	200	364	4330	240	2810	3710	404	5490
8	3750	500	5060	3830	268	3300	8070	711	15700
9	1500	90	364	6910	785	14800	5430	330	4840
10	912	35	86	5530	415	6200	3980	190	2040
11	602	19	31	3300	195	1740	2900	114	893
12	392	12	13	12300	1520	71800	2250	77	468
13	297	12	9.6	24000	1410	95400	1870	57	288
14	227	10	6.1	10500	700	19800	1630	45	198
15	167	8	3.6	5410	400	5840	1570	52	231
16	135	6	2.2	3380	280	2560	2000	59	319
17	114	8	2.5	2380	160	1030	7800	751	32800
18	108	6	1.8	1870	100	505	20700	1370	78600
19	92	3	.75	5900	614	13100	17000	800	36700
20	86	3	.70	6690	465	8400	9260	490	12300
21	83	2	.45	4010	258	2790	10000	693	22900
22	77	4	.83	2750	138	1020	10600	510	14600
23	72	3	.58	2110	89	507	7400	330	6470
24	67	3	.54	1800	72	350	9300	545	17300
25	67	2	.36	1650	63	281	21300	1110	65900
26	65	2	.35	1550	55	230	10800	560	16300
27	60	4	.65	1460	51	201	6610	310	5530
28	56	2	.30	1450	48	188	4750	200	2570
29	54	1	.15	---	---	---	3570	150	1450
30	52	1	.14	---	---	---	2950	115	916
31	77	20	4.2	---	---	---	2750	90	668
MONTH	12351	---	8798.30	127920	---	260073	189030	---	347483
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2370	69	442	1120	15	45	152	2	.82
2	1390	40	150	540	13	19	152	2	.82
3	1560	44	185	883	18	43	147	2	.79
4	1650	46	205	965	18	47	142	3	1.2
5	1130	34	104	965	16	42	122	3	.99
6	1210	29	95	912	15	37	95	3	.77
7	1190	26	84	877	15	36	75	2	.41
8	725	22	43	849	14	32	86	2	.46
9	619	17	28	349	12	11	160	1	.43
10	570	14	22	293	10	7.9	126	1	.34
11	453	12	15	282	8	6.1	62	2	.33
12	401	9	9.7	267	7	5.0	47	2	.25
13	367	6	5.9	731	20	39	39	3	.32
14	354	9	8.6	860	14	33	35	2	.19
15	337	6	5.5	923	13	32	30	2	.16
16	312	6	5.1	789	12	26	29	2	.16
17	413	7	7.8	431	10	12	26	2	.14
18	624	16	27	405	9	9.8	25	2	.14
19	669	16	29	380	8	8.2	25	1	.07
20	658	16	28	369	8	8.0	25	1	.07
21	680	17	31	550	8	12	25	1	.07
22	635	15	26	388	8	8.4	25	1	.07
23	301	14	11	255	11	7.6	25	2	.14
24	1480	94	480	312	10	8.4	26	1	.07
25	3290	123	1100	236	7	4.5	29	1	.08
26	2690	76	552	210	5	2.8	29	1	.08
27	1470	32	127	194	4	2.1	29	1	.08
28	1360	26	95	186	3	1.5	26	1	.07
29	1310	24	85	189	3	1.5	25	1	.07
30	1260	20	68	152	2	.82	23	2	.12
31	---	---	---	145	2	.78	---	---	---
MONTH	31478	---	4074.6	16007	---	549.40	1862	---	9.71

## EEL RIVER BASIN

11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

JULY				AUGUST				SEPTEMBER			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	23	2	.12	9.0	2	.05	7.8	2	.04		
2	22	4	.24	8.6	2	.05	7.8	1	.02		
3	22	3	.18	7.4	1	.02	7.6	1	.02		
4	22	3	.18	5.1	1	.01	7.2	1	.02		
5	21	3	.17	4.6	1	.01	6.5	2	.04		
6	21	3	.17	5.1	5	.07	6.4	1	.02		
7	21	3	.17	5.1	7	.10	5.8	1	.02		
8	20	2	.11	5.1	9	.12	5.3	1	.01		
9	19	2	.10	5.3	8	.11	5.1	1	.01		
10	18	2	.10	5.8	7	.11	5.1	2	.03		
11	16	2	.09	5.8	6	.09	6.6	2	.04		
12	16	2	.09	5.8	6	.09	7.0	1	.02		
13	15	2	.08	5.8	9	.14	7.3	1	.02		
14	13	5	.18	5.1	6	.08	7.0	1	.02		
15	15	4	.16	4.5	4	.05	6.5	1	.02		
16	19	3	.15	4.8	4	.05	6.5	1	.02		
17	21	3	.17	5.1	4	.06	6.5	13	.23		
18	19	3	.15	6.5	6	.11	6.4	10	.17		
19	16	3	.13	7.8	6	.13	5.9	9	.14		
20	15	3	.12	16	7	.30	5.4	6	.09		
21	15	5	.20	16	7	.30	5.4	4	.06		
22	15	5	.20	11	7	.21	5.4	3	.04		
23	13	5	.18	8.4	7	.16	5.3	2	.03		
24	12	4	.13	7.4	7	.14	5.1	2	.03		
25	11	4	.12	7.7	7	.15	5.3	1	.01		
26	10	4	.11	7.1	6	.12	5.4	1	.01		
27	9.9	4	.11	6.4	3	.05	5.3	1	.01		
28	8.6	3	.07	7.1	2	.04	5.1	1	.01		
29	7.0	3	.06	7.1	2	.04	5.1	1	.01		
30	7.0	3	.06	7.8	2	.04	5.1	1	.01		
31	8.6	2	.05	7.8	2	.04	---	---	---		
MONTH	491.1	---	4.15	222.1	---	3.04	182.2	---	1.22		
YEAR	387399.9		627186.27								

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1974	344.50	2.62	0	3
NOVEMBER ...	567.00	3.61	0	4
DECEMBER ...	6945.00	6183.62	10	6190
JANUARY 1975	12351.00	8798.30	479	9280
FEBRUARY ...	127920.00	260073.00	42700	303000
MARCH .....	189030.00	347483.00	83000	430000
APRIL .....	31478.00	4074.60	561	4640
MAY .....	16007.00	549.40	6	555
JUNE .....	1862.00	9.71	0	10
JULY .....	491.10	4.15	0	4
AUGUST .....	222.10	3.04	0	3
SEPTEMBER ..	182.20	1.22	0	1
TOTAL .....	387399.90	627186.27	126756	753690



11472150 EEL RIVER NEAR DOS RIOS, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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
DEC.									
04...	0745	9.0	--	1540	288	1200	--	--	--
27...	1630	7.0	1470	--	733	2910	45	57	69
FEB.									
01...	1315	3.0	--	1070	282	816	--	--	--
03...	1230	6.0	--	2120	53	304	--	--	--
08...	1150	9.0	--	3200	180	1560	--	--	--
09...	1100	8.0	--	5930	747	12000	--	--	--
11...	1715	8.5	--	3320	208	1870	--	--	--
12...	1115	8.0	--	9610	1170	30400	27	35	46
12...	1745	8.0	--	20200	2720	148000	20	29	37
13...	1130	9.0	--	26100	1320	93100	24	32	43
18...	1600	7.0	--	1790	103	498	--	--	--
19...	1715	8.0	--	9560	1010	26100	23	33	41
21...	1100	6.0	--	4040	204	2230	--	--	--
MAR.									
08...	1000	9.0	--	8920	776	18700	20	27	35
18...	1030	9.0	--	20200	1330	72600	--	--	--
18...	1625	8.5	--	17900	1160	56100	18	25	33
21...	1840	6.0	--	16300	1240	54600	--	--	--

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.								
04...	--	--	96	98	99	100	--	--
27...	80	88	92	99	100	--	--	--
FEB.								
01...	--	--	93	97	99	100	--	--
03...	--	--	93	98	100	--	--	--
08...	--	--	86	92	97	100	--	--
09...	--	--	85	92	98	100	--	--
11...	--	--	80	88	96	100	--	--
12...	57	69	81	92	99	100	--	--
12...	48	60	71	85	95	100	--	--
13...	53	64	74	85	95	99	100	--
18...	--	--	77	79	80	81	81	86
19...	51	63	72	84	95	100	--	--
21...	--	--	86	92	98	100	--	--
MAR.								
08...	44	55	66	78	92	99	100	--
18...	--	--	72	84	94	99	100	--
18...	42	52	61	72	84	94	99	100
21...	--	--	64	78	93	99	100	--

## EEL RIVER BASIN

11472150 EEL RIVER NEAR DOS RIOS, CALF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)
OCT. 09...	1440	17.0	--	7.4	--	.00
NOV. 08...	1045	10.0	--	20	--	.00
DEC. 16...	1435	9.0	--	86	--	.00
FEB. 18...	1645	7.0	--	1790	--	.00
MAR. 18...	1650	8.0	5	18000	216	16700
MAY 19...	1535	18.0	--	380	--	.00
AUG. 04...	1420	27.0	--	5.1	--	.00
26...	1125	25.0	--	7.6	--	.00

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
MAR. 18...	1650	8.0	5	18000	216	16700	1	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	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
MAR. 18...	13	22	31	40	53	65	84	100

## 11472200 OUTLET CREEK NEAR LONGVALE, CALIF.

LOCATION.--Lat 39°37'05", long 123°21'20", in NE¼ sec.1, T.20 N., R.14 W., Mendocino County, on right bank 0.2 mi (0.3 km) downstream from Bloody Run Creek, 0.9 mi (1.4 km) upstream from mouth, and 6.9 mi (11.1 km) northeast of Longvale.

DRAINAGE AREA.--161 mi<sup>2</sup> (417 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 1,018.14 ft (310.329 m) above mean sea level.

AVERAGE DISCHARGE.--19 years, 458 ft<sup>3</sup>/s (12.97 m<sup>3</sup>/s), 331,800 acre-ft/yr (409 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 14,500 ft<sup>3</sup>/s (411 m<sup>3</sup>/s) Mar. 25 (gage height, 14.61 ft or 4.453 m); minimum daily, 1.3 ft<sup>3</sup>/s (0.037 m<sup>3</sup>/s) Aug. 14, 15.

Period of record: Maximum discharge, 77,900 ft<sup>3</sup>/s (2,210 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 30.6 ft or 9.33 m, from floodmarks), from rating curve extended above 17,000 ft<sup>3</sup>/s (481 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; no flow Aug. 15-17, 1959, Sept. 14, 15, 1967.

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

REVISIONS (WATER YEARS).--WSP 1929: 1958(M), 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	10	23	144	1250	203	720	245	25	7.8	2.2	2.2
2	1.5	7.9	257	114	2930	703	670	220	25	7.5	2.0	2.4
3	2.8	6.0	914	98	2450	409	730	195	24	7.5	2.0	2.2
4	1.5	3.8	727	329	2910	275	830	172	22	7.5	1.7	1.9
5	1.5	3.4	320	928	2670	237	1030	155	21	7.8	1.6	1.7
6	1.5	2.3	164	4200	2780	237	700	145	19	7.1	1.6	1.6
7	1.5	9.7	108	2780	3160	2270	600	128	18	6.8	1.7	1.6
8	1.5	30	85	3890	2720	4540	530	114	18	6.2	1.7	1.7
9	1.5	13	71	1900	4660	1920	490	104	16	5.8	1.7	1.6
10	1.9	12	64	1150	4150	1350	440	94	15	5.5	1.9	1.6
11	1.9	8.4	64	586	2220	1150	420	88	15	4.9	1.7	1.6
12	1.5	7.4	200	389	7110	980	390	80	14	4.7	1.5	1.6
13	1.9	5.4	230	299	7870	880	370	74	13	4.7	1.5	1.6
14	1.9	3.8	308	244	3310	780	350	68	13	4.7	1.3	1.6
15	1.9	3.4	263	199	1720	800	325	64	12	4.7	1.3	1.6
16	1.5	3.4	174	167	847	1200	305	59	12	6.2	1.5	1.6
17	1.5	3.4	128	140	495	3500	294	55	11	5.8	1.6	1.6
18	1.9	14	101	125	399	7400	280	52	11	5.2	2.4	1.5
19	2.3	18	87	111	4670	4400	265	50	11	4.7	3.0	1.4
20	2.3	16	77	98	3050	2760	260	48	11	4.7	3.9	1.4
21	2.3	123	85	91	1680	4860	250	46	10	4.7	3.2	1.4
22	2.8	128	101	85	796	5880	400	44	9.9	4.1	2.8	1.4
23	3.4	62	79	79	510	3970	620	42	9.4	3.9	1.9	1.4
24	2.3	35	69	73	409	5400	1120	40	10	3.4	1.8	1.4
25	2.3	131	62	71	325	7570	1120	38	11	3.2	1.8	1.4
26	3.4	75	58	75	263	3350	680	34	10	3.0	1.7	1.4
27	6.7	50	2350	73	223	2100	450	32	11	3.0	1.7	1.4
28	47	30	1590	66	192	1500	350	31	9.4	2.8	2.2	1.4
29	32	27	602	62	---	1000	300	29	9.0	2.4	2.8	1.4
30	16	25	283	58	---	820	270	27	8.2	2.2	2.4	1.4
31	15	---	185	87	---	700	---	26	---	2.4	2.4	---
TOTAL	169.8	867.3	9829	18711	65769	73144	15559	2599	423.9	154.9	62.5	48.0
MEAN	5.48	28.9	317	604	2349	2359	519	83.8	14.1	5.00	2.02	1.60
MAX	47	131	2350	4200	7870	7570	1120	245	25	7.8	3.9	2.4
MIN	1.5	2.3	23	58	192	203	250	26	8.2	2.2	1.3	1.4
AC-FT	337	1720	19500	37110	130500	145100	30860	5160	841	307	124	95

CAL YR 1974 TOTAL 192896.4 MEAN 528 MAX 21000 MIN 1.1 AC-FT 382600  
WTR YR 1975 TOTAL 187337.4 MEAN 513 MAX 7870 MIN 1.3 AC-FT 371600

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-12	1415	13.33	12,000	3-21	1715	12.41	10,800
2-19	1515	12.12	10,000	3-25	0030	14.61	14,500
3-18	unknown	14.10	13,400				

NOTE.--No gage-height record Mar. 27 to May 18.

## EEL RIVER BASIN

11472500 EEL RIVER ABOVE DOS RIOS, CALIF.

LOCATION.--Lat 39°41'20", long 123°21'30", in SW¼ sec.7, T.21 N., R.13 W., Mendocino County, temperature recorder at site of former gaging station on left bank, 1.8 mi (2.9 km) upstream from Middle Fork, and 2.1 mi (3.4 km) south of Dos Rios.

DRAINAGE AREA.--705 mi<sup>2</sup> (1,826 km<sup>2</sup>).

PERIOD OF RECORD.--Water temperatures: October 1957 to September 1959, October 1960 to September 1965, May 1966 to current year.

Sediment records: Water year 1957 (partial-record station), October 1957 to September 1965.

EXTREMES.--Current year:

Water temperatures: Maximum, 27.5°C July 27, 28; minimum, 2.5°C Jan. 31 to Feb. 2.

Period of record:

Water temperatures: Maximum (1962-66, 1972 to current year), 29.0°C June 15, 1966, Aug. 2, 1974; minimum (1962-67, 1971 to current year), 1.0°C on several days in 1972.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	17.0	13.0	11.5	9.0	8.0	5.5	4.5	3.0	2.5	8.5	8.0
2	20.0	18.0	12.5	10.0	9.5	9.0	5.0	4.0	4.0	2.5	8.5	7.5
3	20.0	16.5	12.5	10.0	10.0	9.5	5.0	4.0	5.0	4.0	8.5	7.0
4	19.0	16.0	12.0	10.5	10.0	9.5	6.5	5.0	5.0	4.5	9.0	6.5
5	18.0	15.0	12.5	10.5	9.5	9.0	7.0	6.0	5.5	5.0	8.5	8.0
6	17.0	14.5	13.0	11.0	10.0	9.5	8.5	7.0	6.5	5.5	9.0	8.0
7	17.5	14.5	12.5	11.5	10.0	9.0	9.5	8.5	7.0	6.5	9.0	7.5
8	16.0	15.0	11.5	10.0	10.0	9.0	9.5	8.5	8.0	7.0	9.0	7.5
9	17.5	15.0	10.5	9.5	9.5	9.0	8.5	7.0	8.0	7.5	8.5	7.0
10	17.5	14.0	12.5	10.5	9.5	8.5	8.0	7.0	8.0	7.0	8.0	6.0
11	16.5	14.0	12.5	10.5	10.0	9.0	8.0	7.0	8.0	7.5	8.5	6.5
12	17.5	14.0	12.5	11.0	10.5	9.5	8.0	7.0	7.5	7.0	9.5	6.5
13	18.0	14.5	12.5	11.0	9.5	9.0	8.0	7.0	7.5	7.0	8.5	6.0
14	18.0	14.5	13.0	11.0	9.5	9.0	7.5	7.0	7.5	7.0	8.0	6.0
15	18.0	15.0	13.0	11.0	10.5	9.5	7.0	6.5	7.0	6.0	7.5	5.0
16	18.0	15.0	12.0	11.0	10.5	9.5	7.5	6.5	7.0	6.0	6.0	5.0
17	18.0	15.0	12.0	11.0	10.0	8.5	7.5	6.0	6.5	5.5	7.5	4.5
18	17.5	14.5	12.5	11.5	8.5	8.0	8.0	6.5	6.5	6.0	8.5	7.5
19	17.0	14.5	11.5	10.5	8.5	7.5	8.0	6.5	8.0	6.5	9.0	8.5
20	16.5	14.5	11.0	10.5	9.0	8.0	8.5	7.0	7.5	6.5	8.5	8.0
21	15.5	13.0	11.0	10.5	9.0	8.5	8.0	6.0	7.0	5.5	8.5	6.0
22	15.0	12.5	10.5	9.5	8.5	7.0	8.0	6.5	8.0	5.5	7.5	6.5
23	14.5	12.0	10.0	8.5	7.0	5.5	8.0	7.0	8.0	6.0	8.0	7.5
24	14.5	12.5	10.5	9.5	5.5	4.5	8.0	7.0	8.0	6.5	9.0	8.0
25	14.0	13.0	10.5	10.0	5.0	4.5	9.0	7.5	8.5	7.0	9.0	8.0
26	14.5	12.0	10.0	9.0	6.5	5.0	8.5	7.0	7.5	6.5	8.5	7.5
27	14.0	13.0	10.0	9.0	8.0	6.5	7.0	5.5	8.5	7.5	9.0	7.5
28	13.5	12.5	9.5	8.5	8.0	6.5	5.5	4.5	9.5	8.0	9.0	7.5
29	13.0	11.0	9.5	8.5	6.5	5.5	4.5	4.0	---	---	10.5	8.0
30	13.0	11.5	9.0	8.0	6.5	5.5	4.5	3.0	---	---	11.0	9.5
31	13.5	12.5	---	---	5.5	5.0	4.0	2.5	---	---	10.5	9.5
MONTH	21.0	11.0	13.0	8.0	10.5	4.5	9.5	2.5	9.5	2.5	11.0	4.5

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

[illegible]

## EEL RIVER BASIN

11472900 BLACK BUTTE RIVER NEAR COVELO, CALIF.

LOCATION.--Lat 39°49'15", long 123°04'50", in SE4 sec.28, T.23 N., R.11 W., Mendocino County, on right bank 10 ft (3 m) upstream from highway bridge, 0.5 mi (0.8 km) upstream from mouth, and 9.5 mi (15.3 km) east of Covelo.

DRAINAGE AREA.--162 mi<sup>2</sup> (420 km<sup>2</sup>).

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1951-56, and annual maximum, water years 1954-57, October 1958 to September 1975 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 1,456.71 ft (444.005 m) above mean sea level. Sept. 10, 1953, to Sept. 30, 1957, crest-stage gage only at same site at different datum. Oct. 1, 1958, to Dec. 22, 1964, water-stage recorder at site 0.1 mi (0.2 km) upstream at same datum.

AVERAGE DISCHARGE.--17 years, 333 ft<sup>3</sup>/s (9.431 m<sup>3</sup>/s), 241,300 acre-ft/yr (298 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 9,460 ft<sup>3</sup>/s (268 m<sup>3</sup>/s) Mar. 25 (gage height, 18.63 ft or 5.678 m); minimum daily, 4.4 ft<sup>3</sup>/s (0.12 m<sup>3</sup>/s) Oct. 18-23.

Period of record: Maximum discharge, 29,000 ft<sup>3</sup>/s (821 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 26.4 ft or 8.05 m, from floodmarks, site then in use), from rating curve extended above 13,000 ft<sup>3</sup>/s (368 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum (1958 to current year), 1.2 ft<sup>3</sup>/s (0.034 m<sup>3</sup>/s) Sept. 11, 1959.

Flood of Dec. 11, 1937, reached a stage of 36.2 ft (11.03 m), from floodmarks at crest-stage site (discharge, 26,000 ft<sup>3</sup>/s or 736 m<sup>3</sup>/s).

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

REVISIONS (WATER YEARS).--WSP 1715: 1959(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	24	22	74	148	1570	961	675	410	78	20	10
2	5.0	20	27	68	166	1870	815	745	380	74	19	10
3	5.0	17	120	65	173	1610	728	791	350	70	18	10
4	4.8	13	500	153	252	1460	667	679	330	66	18	11
5	4.8	11	250	209	196	1370	625	588	320	61	17	11
6	4.8	10	140	2730	376	1310	545	563	330	57	16	10
7	4.8	14	72	1580	1090	2120	517	607	350	54	15	9.8
8	4.8	25	58	2480	2040	2670	517	675	310	50	14	9.4
9	5.3	19	48	876	3300	1890	494	736	270	47	14	9.0
10	5.5	16	45	720	1710	1500	444	754	245	45	13	8.8
11	5.5	15	42	542	1020	1230	418	719	215	42	13	8.4
12	5.5	14	47	384	3720	1040	412	736	185	39	12	8.2
13	5.3	12	450	323	4360	944	467	821	160	37	12	8.0
14	5.1	12	240	252	1710	786	517	895	145	36	11	7.8
15	5.0	12	340	219	977	706	447	847	130	34	10	7.8
16	4.6	11	150	188	668	679	402	777	120	33	10	7.6
17	4.6	11	76	166	433	1380	364	750	110	32	9.5	7.5
18	4.4	17	61	162	352	3600	367	777	100	31	9.4	7.4
19	4.4	18	56	152	2740	3180	386	782	94	30	9.6	7.3
20	4.4	14	51	137	2570	1710	444	690	90	29	10	7.2
21	4.4	15	56	119	1680	1920	535	630	88	29	11	7.1
22	4.4	39	60	109	1410	1350	545	590	87	28	13	7.0
23	4.4	26	47	103	1270	1240	950	600	85	28	13	6.9
24	4.6	17	40	96	1230	2600	1140	625	83	27	12	6.8
25	4.6	29	40	93	1270	4410	1060	620	84	26	12	6.7
26	4.8	36	39	94	1250	1570	772	600	88	25	11	6.6
27	6.7	33	396	79	1350	1190	686	570	88	24	11	6.5
28	36	29	225	70	1490	950	667	530	87	24	10	6.4
29	32	25	117	69	---	847	679	500	82	23	10	6.4
30	21	23	96	60	---	1030	683	470	80	22	9.6	6.4
31	22	---	79	74	---	1130	---	440	---	21	9.5	---
TOTAL	243.6	577	3990	12446	38951	50462	18254	20782	5496	1222	392.6	243.0
MEAN	7.86	19.2	129	401	1391	1628	608	670	183	39.4	12.7	8.10
MAX	36	39	500	2730	4360	4410	1140	895	410	78	20	11
MIN	4.4	10	22	60	148	679	364	440	80	21	9.4	6.4
AC=FT	483	1140	7910	24690	77260	100100	36210	41220	10900	2420	779	482

CAL YR 1974 TOTAL 145591.5 MEAN 399 MAX 14600 MIN 2.8 AC=FT 288800  
WTR YR 1975 TOTAL 153059.2 MEAN 419 MAX 4410 MIN 4.4 AC=FT 303600

Peak discharge (base, 5,500 ft<sup>3</sup>/s)  
Date Time G.H. Discharge Date Time G.H. Discharge  
2-13 0500 17.49 6,880 3-25 0115 18.63 9,460  
2-19 1630 17.09 6,130

## 11472900 BLACK BUTTE RIVER NEAR COVELO, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: November 1964 to September 1966.

Specific conductance: October 1966 to September 1968.

Water temperatures: May 1964 to September 1975 (discontinued).

Sediment records: Water year 1966 (partial-record station), December 1966 to September 1973.

Turbidity: Water years 1966-68 (partial-record station).

## EXTREMES.--Current year:

Water temperatures: Maximum, 27.5°C on several days during August; minimum, freezing point on several days during December and January.

## Period of record:

Water temperatures: Maximum (1965-68, 1969 to current year), 34.5°C July 26, 1973; minimum (1965 to current year), freezing point on many days in 1965-69, 1971, 1973, 1975.

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

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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	--	--	--	13.5	--	9.0	6.5	--	3.0	3.0	--	0.5	--	--	--	7.5	--	6.0
2	--	--	--	12.5	--	7.5	7.0	--	6.0	2.5	--	0.0	--	--	--	7.5	--	6.0
3	--	--	--	12.5	--	7.5	7.0	--	6.0	2.0	--	0.0	--	--	--	7.5	--	4.5
4	--	--	--	11.5	--	7.5	6.5	--	4.5	3.5	--	2.0	--	--	--	8.0	--	5.0
5	--	--	--	12.5	--	7.5	6.0	--	4.5	4.0	--	2.0	--	--	--	7.0	--	6.5
6	--	--	--	13.0	--	8.0	7.5	--	5.5	5.5	--	4.0	4.0	--	3.0	7.5	--	6.0
7	--	--	--	11.0	--	8.5	6.5	--	4.5	6.0	--	5.0	4.5	--	3.0	7.5	--	6.5
8	--	--	--	10.0	--	7.0	6.5	--	3.5	6.0	--	3.0	4.5	--	3.0	7.0	--	6.0
9	--	--	--	10.0	--	6.0	6.0	--	3.5	3.0	--	2.0	4.5	--	2.5	--	--	--
10	--	15.5	--	12.0	--	7.5	6.0	--	3.0	4.5	--	2.5	5.5	--	4.0	--	--	--
11	20.0	--	13.5	11.0	--	7.0	7.0	--	5.0	4.0	--	3.0	6.0	--	4.0	--	--	--
12	19.5	--	13.5	11.0	--	7.0	7.5	--	5.0	4.5	--	2.5	5.5	--	5.0	--	--	--
13	20.0	--	13.0	11.5	--	7.5	6.0	--	4.5	4.5	--	2.5	6.5	--	5.0	--	--	--
14	20.0	--	13.0	12.0	--	7.5	7.0	--	5.5	4.0	--	2.0	5.5	--	4.0	--	--	--
15	19.5	--	13.0	11.5	--	7.5	8.0	--	6.0	5.0	--	2.5	5.0	--	3.0	--	--	--
16	19.5	--	12.5	9.5	--	7.0	6.5	--	4.5	5.0	--	3.0	5.5	--	3.0	--	--	--
17	19.0	--	12.5	9.5	--	6.0	5.5	--	3.5	5.0	--	3.0	5.0	--	2.0	--	--	--
18	19.5	--	12.5	11.0	--	7.5	5.0	--	3.0	5.5	--	3.5	5.5	--	3.0	--	--	--
19	18.0	--	13.0	9.5	--	6.0	5.0	--	2.5	6.0	--	3.5	6.0	--	4.5	--	6.5	--
20	18.5	--	12.5	9.0	--	6.5	6.5	--	4.0	6.0	--	3.5	5.5	--	4.0	6.5	--	4.0
21	17.5	--	11.5	10.0	--	7.0	6.0	--	4.0	6.0	--	3.5	5.0	--	2.5	5.0	--	2.0
22	17.5	--	11.0	8.0	--	5.5	4.0	--	2.0	7.0	--	4.0	6.0	--	2.5	4.0	--	2.0
23	16.5	--	11.0	8.0	--	4.5	3.0	--	0.5	7.0	--	4.5	7.0	--	3.5	6.0	--	4.0
24	16.0	--	11.5	8.5	--	4.5	2.5	--	0.0	7.0	--	4.0	7.5	--	4.5	5.5	--	4.5
25	17.5	--	11.5	8.5	--	5.5	2.5	--	0.0	7.0	--	4.5	8.0	--	4.5	7.0	--	4.0
26	16.5	--	11.5	7.0	--	4.0	3.5	--	1.0	6.0	--	3.0	7.0	--	4.5	5.0	--	4.0
27	14.5	--	12.5	8.0	--	5.0	5.0	--	3.5	--	--	--	8.0	--	6.0	--	--	--
28	12.5	--	10.0	7.0	--	3.5	3.5	--	1.0	--	--	--	8.5	--	5.5	--	--	--
29	13.5	--	8.5	6.5	--	3.0	2.5	--	0.0	--	--	--	--	--	--	--	--	--
30	13.5	--	9.0	6.5	--	3.0	4.0	--	1.0	--	--	--	--	--	--	--	--	--
31	13.0	--	11.0	--	--	--	2.5	--	0.0	--	--	--	--	--	--	--	--	--
MONTH	--	--	--	13.5	--	3.0	8.0	--	0.0	7.0	--	0.0	8.5	--	2.0	--	--	--

## EEL RIVER BASIN

11472900 BLACK BUTTE RIVER NEAR COVELO, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	MAX	APR	MIN	MAX	MAY	MIN	MAX	JUN	MIN	MAX	JUL	MIN	MAX	AUG	MIN	MAX	SEP	MIN
		DAILY			DAILY			DAILY			DAILY			DAILY			DAILY	
1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24.5	--	17.0
2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25.0	--	16.5
3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25.0	--	17.0
4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25.0	--	17.5
5	--	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	25.5	--	18.0
6	--	--	--	--	--	--	--	--	--	--	--	--	25.0	--	19.0	25.5	--	18.0
7	--	--	--	--	--	--	--	--	--	--	--	--	25.5	--	17.5	25.5	--	17.5
8	--	--	--	--	--	--	--	--	--	--	--	--	26.0	--	18.5	25.5	--	18.0
9	--	--	--	--	--	--	--	--	--	--	--	--	27.0	--	19.5	21.0	--	19.5
10	--	--	--	--	--	--	--	--	--	--	--	--	27.5	--	20.0	21.0	--	18.0
11	--	--	--	--	--	--	--	--	--	--	--	--	27.5	--	20.0	24.5	--	18.0
12	--	--	--	--	--	--	--	--	--	--	--	--	27.5	--	20.0	25.5	--	18.0
13	--	--	--	--	--	--	--	--	--	--	--	--	27.5	--	20.0	25.0	--	18.5
14	--	--	--	--	--	--	--	--	--	--	--	--	27.5	--	20.0	24.0	--	18.5
15	--	--	--	--	--	--	--	--	--	--	--	--	27.0	--	19.5	22.5	--	18.0
16	--	--	--	--	--	--	--	--	--	--	--	--	26.5	--	19.0	23.0	--	17.0
17	--	--	--	--	--	--	--	--	--	--	--	--	22.5	--	20.0	22.5	--	16.5
18	--	--	--	--	--	--	--	--	--	--	--	--	24.5	--	19.0	24.0	--	17.5
19	--	--	--	--	--	--	--	--	--	--	--	--	24.0	--	19.0	23.5	--	17.5
20	--	--	--	--	6.0	--	--	--	--	--	--	--	25.5	--	18.0	24.5	--	17.5
21	--	--	--	--	--	--	--	--	--	--	--	--	25.0	--	19.5	24.5	--	18.5
22	--	--	--	--	--	--	--	--	--	--	--	--	26.0	--	18.5	24.0	--	17.5
23	--	--	--	--	--	--	--	--	--	--	--	--	27.0	--	19.0	24.0	--	17.0
24	--	--	--	--	--	--	--	--	--	--	--	--	27.0	--	19.5	24.0	--	17.0
25	--	--	--	--	--	--	--	--	--	--	--	--	27.5	--	20.5	24.0	--	17.0
26	--	--	--	--	--	--	--	--	--	--	--	--	26.5	--	20.0	24.0	--	17.0
27	--	--	--	--	--	--	--	--	--	--	--	--	24.5	--	19.5	23.5	--	16.0
28	--	--	--	--	--	--	--	--	--	--	--	--	25.0	--	18.5	22.5	--	15.5
29	--	--	--	--	--	--	--	--	--	--	--	--	24.5	--	17.5	22.5	--	15.5
30	--	--	--	--	--	--	--	--	--	--	--	--	24.5	--	17.0	22.0	--	15.5
31	--	--	--	--	--	--	--	--	--	--	--	--	24.0	--	17.0	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	27.5	--	17.0	25.5	--	15.5



11473000 MIDDLE FORK EEL RIVER BELOW BLACK BUTTE RIVER, NEAR COVELO, CALIF.

LOCATION.--Lat 39°49'35", long 123°05'30", in NW¼ sec.28, T.23 N., R.11 W., Mendocino County, temperature recorder at site of former gaging station, 0.2 mi (0.3 km) downstream from Black Butte River, and 8.6 mi (13.8 km) east of Covelo.

DRAINAGE AREA.--367 mi<sup>2</sup> (951 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: November 1964 to September 1966.

Water temperatures: July to November 1961, October 1962 to current year.

Sediment records: October 1962 to September 1967.

Turbidity: Water years 1965-67 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 26.0°C Aug. 25; minimum, 1.5°C Jan. 31, Feb. 1.

Period of record:

Water temperatures (1962-63, 1965-66, 1967-68, 1969 to current year): Maximum, 29.5°C July 15, 1972; minimum (1969 to current year), 0.5°C Dec. 14, 1972.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	17.0	13.0	11.5	7.0	6.0	4.0	3.0	2.0	1.5	7.0	6.5
2	19.5	17.0	12.5	11.0	7.5	7.0	3.5	3.0	3.0	2.0	7.0	6.5
3	19.5	17.0	12.5	11.0	7.5	7.0	3.5	3.0	3.5	3.0	7.0	6.5
4	19.5	17.0	12.0	11.0	7.0	6.5	4.0	3.5	4.0	3.0	7.5	6.5
5	18.5	16.5	12.5	11.0	7.0	6.5	4.5	4.0	4.0	3.5	7.5	7.0
6	18.0	15.5	13.0	11.0	8.0	7.0	6.0	4.5	4.5	4.0	8.0	7.5
7	18.0	15.5	12.0	11.0	7.5	7.0	7.0	6.0	4.5	4.0	8.0	8.0
8	16.5	16.0	11.0	10.0	7.5	6.5	7.0	6.0	4.5	4.0	8.0	7.5
9	18.0	15.5	11.0	9.5	7.0	6.5	6.0	5.0	5.0	4.0	8.0	7.5
10	19.0	15.5	12.0	10.0	7.0	6.5	6.0	5.0	5.5	4.5	7.5	7.0
11	18.5	16.0	11.5	9.5	7.5	7.0	5.5	5.0	6.0	5.0	8.0	7.0
12	18.5	16.0	11.5	10.0	8.0	7.0	5.5	5.0	6.0	5.5	8.0	7.0
13	18.5	15.5	11.5	10.0	7.5	6.5	5.5	5.0	6.0	5.5	7.5	7.0
14	18.5	15.5	11.5	10.0	7.0	6.5	5.0	5.0	6.0	5.5	7.5	6.0
15	18.5	15.5	11.0	9.5	7.5	7.0	5.0	5.0	5.5	5.0	7.0	6.5
16	18.0	15.5	10.5	9.5	7.5	6.5	5.0	5.0	5.5	5.0	6.5	5.5
17	18.0	15.0	10.5	9.5	7.0	6.0	5.5	5.0	5.0	4.0	6.0	5.5
18	18.0	15.0	11.0	10.0	6.0	6.0	6.0	5.5	5.5	4.5	7.0	6.0
19	17.5	15.0	10.0	9.0	6.0	5.5	6.0	5.5	6.5	5.5	7.0	6.5
20	17.5	15.0	10.0	9.0	6.5	6.0	6.0	5.5	6.5	6.0	7.0	6.0
21	17.0	14.5	10.5	10.0	7.0	6.5	6.0	5.0	6.5	5.5	6.5	4.0
22	16.5	14.0	10.0	8.5	6.5	5.0	6.5	6.0	6.0	5.5	5.0	4.0
23	16.0	14.0	9.0	8.0	5.0	4.5	6.5	6.0	6.5	5.5	6.5	5.0
24	16.0	14.0	9.0	7.5	4.5	4.0	7.0	6.0	7.0	6.0	6.5	6.0
25	16.5	14.0	9.0	8.0	4.0	3.5	7.0	6.0	7.0	6.0	7.0	6.0
26	16.5	14.5	8.0	7.5	4.0	3.5	6.5	5.5	6.5	6.0	7.0	6.0
27	15.0	14.5	8.5	7.5	5.5	4.0	5.5	4.0	7.0	6.5	7.0	6.0
28	15.0	13.0	8.0	7.0	5.0	4.0	4.0	3.5	7.5	6.5	7.0	5.0
29	13.0	11.5	7.5	6.5	4.0	3.0	4.5	2.5	---	---	8.5	6.0
30	13.0	12.0	7.0	6.0	4.0	3.5	3.0	2.5	---	---	9.0	6.5
31	13.0	12.5	---	---	3.5	3.0	2.5	1.5	---	---	8.5	7.0
MONTH	20.0	11.5	13.0	6.0	8.0	3.0	7.0	1.5	7.5	1.5	9.0	4.0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

[illegible]

## 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, on right bank 0.6 mi (1.0 km) upstream from Eastman Creek, 1.7 mi (2.7 km) southeast of Dos Rios, and 1.9 mi (3.1 km) upstream from mouth.

DRAINAGE AREA.--745 mi<sup>2</sup> (1,930 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 901.58 ft (274.802 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 1,936 ft<sup>3</sup>/s (54.83 m<sup>3</sup>/s), 1,403,000 acre-ft/yr (1.73 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 41,700 ft<sup>3</sup>/s (1,180 m<sup>3</sup>/s) Mar. 25 (gage height, 20.84 ft or 6.352 m); minimum daily, 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Oct. 1.  
Period of record: Maximum discharge, 90,500 ft<sup>3</sup>/s (2,560 m<sup>3</sup>/s) Jan. 23, 1970 (gage height, 27.15 ft or 8.275 m); minimum daily, 5.8 ft<sup>3</sup>/s (0.16 m<sup>3</sup>/s) Sept. 14-16, 1970.

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

REVISIONS (WATER YEARS).--WRD Calif. 1967: 1966.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	117	90	459	1340	4250	3060	2010	1600	202	53	33
2	11	85	151	398	3240	6190	2600	2270	1400	195	53	31
3	12	63	1630	315	2090	5370	2340	2520	1170	179	50	32
4	12	48	3910	606	3790	4590	2170	2390	1040	161	48	30
5	12	44	1270	783	2480	4150	2010	1910	1020	158	44	30
6	12	40	649	8580	3470	3930	1780	1680	925	151	46	29
7	12	48	459	5560	7140	6350	1620	1780	806	141	44	27
8	12	85	383	10100	9060	12500	1470	2080	753	137	42	24
9	14	120	292	4430	16900	7400	1300	2570	683	127	42	24
10	15	96	221	2820	10800	5660	1230	2770	643	120	42	24
11	15	77	213	2090	5200	4770	1220	2680	604	117	42	25
12	15	69	458	1640	16900	4120	1270	2650	573	110	40	25
13	14	62	1200	1400	26000	3690	1460	3010	543	107	38	24
14	13	57	683	1230	9860	3340	1710	3690	514	104	38	24
15	12	53	939	1100	5620	3070	1600	3580	486	99	38	25
16	12	48	676	994	4360	3720	1430	3060	459	107	36	24
17	12	46	497	884	3560	7750	1300	2840	428	110	34	23
18	12	57	393	844	3020	24900	1210	3040	398	104	38	23
19	12	79	329	821	9430	20200	1210	3290	369	96	42	21
20	12	87	283	790	10800	9170	1360	2720	346	93	42	21
21	12	87	269	689	5240	9320	1540	2090	324	87	46	21
22	11	179	324	669	4000	9390	1680	1780	310	85	42	20
23	11	209	269	604	3450	7480	1720	1780	301	77	42	20
24	12	144	217	555	3200	10400	4520	1980	294	74	40	20
25	12	168	199	537	3270	26700	5220	2020	298	69	37	19
26	13	202	195	520	3270	8550	2940	1710	278	64	38	19
27	21	161	2530	470	3320	4830	2250	1760	261	62	36	18
28	37	130	2660	388	3930	3740	2000	1670	240	62	36	16
29	62	110	1130	355	---	3060	1910	1660	228	57	34	16
30	120	99	731	306	---	3320	2050	1670	213	55	34	15
31	155	---	573	369	---	3530	---	1660	---	53	34	---
TOTAL	717	2870	23823	51306	184740	235440	59180	72320	17507	3363	1271	703
MEAN	23.1	95.7	768	1655	6598	7595	1973	2333	584	108	41.0	23.4
MAX	155	209	3910	10100	26000	26700	5220	3690	1600	202	53	33
MIN	10	40	90	306	1340	3060	1210	1660	213	53	34	15
AC-FT	1420	5690	47250	101800	366400	467000	117400	143400	34730	6670	2520	1390
C&L YR 1974	TOTAL	791535.3	MEAN	2169	MAX	72100	MIN	9.3	AC-FT	1570000		
WTR YR 1975	TOTAL	653240.0	MEAN	1790	MAX	26700	MIN	10	AC-FT	1296000		

Peak discharge (base, 35,000 ft<sup>3</sup>/s).--Feb. 13 (0845) 35,400 ft<sup>3</sup>/s (19.74 ft); Mar. 25 (0545) 41,700 ft<sup>3</sup>/s (20.84 ft).

## 11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1966. Prior to October 1965, published as "at Dos Rios."

Specific conductance: October 1966 to September 1967.

Water temperatures: October 1957 to September 1959, October 1960 to current year.

Sediment records: Water years 1956-57 (partial-record station), October 1957 to current year.

Turbidity: Water years 1965-68 (partial-record station).

## EXTREMES.--Current year:

Water temperatures: Minimum, 3.0°C Feb. 2.

Sediment concentrations: Maximum daily, 3,640 mg/l Feb. 13; minimum daily, 1 mg/l on many days during October to December, and September.

Sediment discharge: Maximum daily, 266,000 tons (241,000 tonnes) Feb. 13; minimum daily, 0.03 ton (0.03 tonne) on several days during October.

Period of record:

Water temperatures: Maximum (1971-74), 35.5°C June 20, 1973; minimum (1968 to current year), freezing point Dec. 22, 1968.

Sediment concentrations (1965 to current year): Maximum daily, 11,800 mg/l Jan. 4, 1966; minimum daily, 1 mg/l on many days in 1965-75.

Sediment discharge (1965 to current year): Maximum daily, 1,600,000 tons (1,450,000 tonnes) Jan. 16, 1974; minimum daily, 0.02 ton (0.02 tonne) on several days in 1970.

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

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	21.0	-- 16.5	13.0	-- 11.5	-- 8.0	--	-- --	--	3.5	-- 3.5	6.5	-- 6.0
2	20.5	-- 17.5	12.0	-- 10.0	-- 9.0	--	-- 4.5	--	3.5	-- 3.0	7.0	-- 6.0
3	21.5	-- 17.0	12.0	-- 10.0	-- 9.0	--	-- 4.0	--	4.0	-- 3.5	7.0	-- 5.0
4	20.0	-- 16.5	11.5	-- 10.0	-- 9.0	--	-- 4.0	--	3.5	-- 3.5	6.5	-- 5.0
5	20.0	-- 16.0	11.5	-- 10.0	-- 8.0	--	-- 4.5	--	4.0	-- 3.5	6.0	-- 5.5
6	18.5	-- 15.0	12.0	-- 10.5	-- 9.5	--	-- 7.0	--	4.5	-- 4.0	6.0	-- 5.5
7	19.0	-- 14.5	12.5	-- 11.5	-- 10.5	--	-- 7.5	--	4.5	-- 4.0	6.5	-- 6.0
8	16.5	-- 15.0	11.5	-- 9.5	-- 9.0	--	-- 7.0	--	4.5	-- 4.0	6.5	-- 6.0
9	19.0	-- 15.0	11.5	-- 9.0	-- 8.5	--	-- 4.0	--	4.5	-- 3.5	6.5	-- 5.5
10	18.5	-- 15.0	11.5	-- 11.0	-- --	--	-- 6.5	--	5.5	-- 3.5	6.5	-- 5.5
11	18.5	-- 14.5	-- --	--	-- 8.0	--	-- --	--	5.5	-- 4.5	7.0	-- 5.5
12	18.5	-- 14.0	-- 12.0	--	-- 9.0	--	-- 5.0	--	5.0	-- 5.0	6.5	-- 5.5
13	18.0	-- 14.0	-- 11.5	--	-- 8.5	--	-- 8.0	--	-- 8.0	--	6.0	-- 5.5
14	18.0	-- 14.0	-- 12.0	--	-- 7.5	--	-- --	--	-- 7.5	--	6.5	-- 5.0
15	18.0	-- 14.0	-- --	--	-- --	--	-- 6.0	--	-- 7.0	--	6.0	-- 5.0
16	17.5	-- 14.0	-- 11.0	--	-- 9.5	--	-- 6.0	--	-- --	--	5.5	-- 5.0
17	17.0	-- 13.5	-- --	--	7.0	-- 6.0	-- 6.5	--	-- --	--	5.0	-- 4.5
18	17.0	-- 13.5	-- 11.0	--	6.5	-- 5.0	-- 7.5	--	-- 6.0	--	6.0	-- 4.5
19	16.5	-- 13.5	-- 11.0	--	6.5	-- 4.5	-- 6.5	--	-- 7.5	--	7.0	-- 5.5
20	16.0	-- 13.5	-- --	--	7.0	-- 5.5	-- 7.0	--	5.0	-- 4.0	6.0	-- 5.0
21	16.0	-- 13.0	-- 11.5	--	7.0	-- 6.0	8.5	-- 4.5	5.5	-- 3.5	5.0	-- 4.0
22	15.0	-- 12.0	-- 10.0	--	-- 7.0	--	8.0	-- 6.0	6.0	-- 3.5	4.5	-- 4.0
23	15.0	-- 11.5	-- 8.5	--	-- 7.0	--	8.0	-- 6.0	6.0	-- 4.0	5.0	-- 4.0
24	15.0	-- 12.0	-- 8.5	--	-- 5.5	--	8.0	-- 6.5	6.5	-- 4.5	5.5	-- 5.0
25	15.0	-- 12.5	-- 11.0	--	-- --	--	8.0	-- 6.5	7.0	-- 4.5	5.5	-- 4.0
26	15.0	-- 12.0	-- 9.0	--	-- 6.5	--	7.0	-- 6.0	6.0	-- 5.0	5.5	-- 5.0
27	14.5	-- 13.0	-- 9.0	--	-- 7.0	--	6.5	-- 5.0	6.0	-- 5.5	6.0	-- 4.5
28	14.0	-- 12.5	-- --	--	-- 5.0	--	5.0	-- 4.5	7.0	-- 5.5	5.5	-- 4.0
29	13.5	-- 11.0	-- 7.5	--	-- 4.5	--	5.5	-- 4.0	-- --	--	6.5	-- 4.5
30	13.5	-- 12.0	-- 8.0	--	-- 6.0	--	5.0	-- 4.0	-- --	--	6.5	-- 6.0
31	13.5	-- 13.0	-- --	--	-- 4.5	--	4.0	-- 3.5	-- --	--	6.5	-- 6.5
MONTH	21.5	-- 11.0	-- --	--	-- --	--	-- --	--	-- --	--	7.0	-- 4.0

## 11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	MAX	APR DAILY	MIN	MAX	MAY DAILY	MIN	MAX	JUN DAILY	MIN	MAX	JUL DAILY	MIN	MAX	AUG DAILY	MIN	MAX	SEP DAILY	MIN
1	6.5	--	5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	25.5	--
2	--	8.0	--	--	13.0	--	--	--	--	--	23.0	--	--	--	--	--	--	--
3	--	8.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.5	--
4	--	6.5	--	--	--	--	--	20.0	--	--	22.0	--	--	--	--	--	--	--
5	--	6.5	--	--	10.5	--	--	--	--	--	--	--	--	22.0	--	--	19.5	--
6	--	9.0	--	--	--	--	--	15.5	--	--	--	--	--	25.0	--	24.0	--	19.0
7	--	6.5	--	--	14.0	--	--	--	--	--	26.0	--	--	--	--	23.5	--	19.0
8	--	10.0	--	--	--	--	--	--	--	--	--	--	--	27.5	--	23.5	--	19.0
9	--	11.0	--	--	15.0	--	--	15.5	--	--	22.5	--	--	--	--	21.5	--	19.5
10	--	11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	18.0
11	--	12.5	--	--	--	--	--	20.0	--	--	23.0	--	--	27.0	--	23.5	--	19.5
12	--	10.0	--	--	17.5	--	--	--	--	--	--	--	--	--	--	23.5	--	19.0
13	--	12.0	--	--	--	--	--	23.0	--	--	--	--	--	27.5	--	23.5	--	19.5
14	--	9.5	--	--	8.5	--	--	--	--	--	21.0	--	--	--	--	23.0	--	19.0
15	--	10.0	--	--	--	--	--	--	--	--	--	--	--	27.5	--	23.0	--	19.0
16	--	--	--	--	12.5	--	--	19.5	--	--	23.5	--	--	--	--	22.5	--	19.0
17	--	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	22.5	--	19.0
18	--	11.5	--	--	--	--	--	22.5	--	--	26.0	--	--	24.0	--	22.5	--	18.0
19	--	--	--	--	16.5	--	--	--	--	--	--	--	--	--	--	22.0	--	18.0
20	--	13.5	--	--	--	--	--	20.0	--	--	--	--	--	24.0	--	23.0	--	18.5
21	--	8.5	--	--	8.5	--	--	--	--	--	26.5	--	--	--	--	22.0	--	19.0
22	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22.5	--	19.0
23	--	8.5	--	--	18.0	--	--	20.0	--	--	28.5	--	--	--	--	22.0	--	18.5
24	--	9.0	--	--	--	--	--	17.0	--	--	--	--	--	--	--	23.0	--	18.5
25	--	8.0	--	--	--	--	--	23.5	--	--	--	--	--	26.0	--	22.5	--	20.0
26	--	6.5	--	--	15.0	--	--	--	--	--	--	--	--	22.0	--	22.5	--	18.5
27	--	12.0	--	--	--	--	--	16.0	--	--	--	--	--	23.5	--	21.5	--	18.5
28	--	13.0	--	--	17.0	--	--	--	--	--	--	--	--	--	--	20.5	--	16.5
29	--	13.0	--	--	--	--	--	--	--	--	--	--	--	25.0	--	21.0	--	16.0
30	--	15.5	--	--	16.5	--	--	18.0	--	--	--	--	--	--	--	21.0	--	17.0
31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24.0	--	16.0

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	10	4	.11	117	2	.63	90	1	.24
2	11	5	.15	85	1	.23	151	32	20
3	12	6	.19	63	1	.17	1630	881	5250
4	12	7	.23	48	1	.13	3910	1580	21500
5	12	6	.19	44	1	.12	1270	240	823
6	12	5	.16	40	5	.54	649	53	93
7	12	5	.16	48	7	.91	459	20	25
8	12	3	.10	85	2	.46	383	12	12
9	14	2	.08	120	1	.32	292	8	6.3
10	15	2	.08	96	1	.26	221	6	3.6
11	15	4	.16	77	1	.21	213	5	2.9
12	15	3	.12	69	1	.19	458	200	247
13	14	2	.08	62	3	.50	1200	1280	4550
14	13	1	.04	57	1	.15	683	140	258
15	12	1	.03	53	1	.14	939	80	203
16	12	1	.03	48	1	.13	676	42	77
17	12	1	.03	46	1	.12	497	21	28
18	12	2	.06	57	1	.15	393	14	15
19	12	2	.06	79	1	.21	329	8	7.1
20	12	2	.06	87	1	.23	283	6	4.6
21	12	2	.06	87	1	.23	269	4	2.9
22	11	1	.03	179	4	1.9	324	10	8.7
23	11	1	.03	209	3	1.7	269	2	1.5
24	12	1	.03	144	1	.39	217	4	2.3
25	12	1	.03	168	5	2.3	199	2	1.1
26	13	1	.04	202	4	2.2	195	1	.53
27	21	1	.06	161	1	.43	2530	623	7900
28	37	6	.60	130	2	.70	2660	420	3020
29	62	8	1.3	110	2	.59	1130	108	330
30	120	10	3.2	99	1	.27	731	58	114
31	155	3	1.3	---	---	---	573	30	46
MONTH	717	---	8.80	2870	---	16.51	23823	---	44552.77

## EEL RIVER BASIN

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	459	15	19	1340	320	2540	4250	310	3560
2	398	12	13	1320	592	5540	6190	696	12000
3	315	10	8.5	2090	340	1920	5370	410	5940
4	606	158	360	3790	695	8350	4590	290	3590
5	783	278	588	2480	340	2280	4150	260	2910
6	8580	3180	83800	3470	500	4680	3930	235	2490
7	5560	1140	17100	7140	770	14800	6350	932	18300
8	10100	2640	79100	9060	706	19300	12500	1560	53700
9	4430	590	6940	16900	2550	119000	7400	780	15600
10	2820	370	2820	10800	1250	36500	5660	525	8020
11	2090	230	1300	5200	560	7860	4770	355	4570
12	1640	145	642	16900	3160	201000	4120	242	2690
13	1400	110	416	26000	3640	266000	3690	200	1990
14	1230	89	296	9860	1210	32200	3340	165	1490
15	1100	70	208	5620	810	12300	3070	155	1280
16	994	58	156	4360	550	6470	3720	205	2080
17	884	48	115	3560	400	3840	7750	734	31000
18	844	41	93	3020	275	2240	24900	2390	164000
19	821	34	75	9430	1460	58800	20200	1960	107000
20	790	29	62	10800	1630	47500	9170	1180	29200
21	689	27	50	5240	610	8630	9320	1340	38700
22	669	23	42	4000	363	3920	9390	940	23800
23	604	20	33	3450	310	2890	7480	650	13100
24	555	18	27	3200	298	2570	10400	1310	44700
25	537	16	23	3270	260	2300	26700	2570	205000
26	520	14	20	3270	228	2010	8550	1110	25600
27	470	14	18	3320	202	1810	4830	710	9260
28	388	13	14	3930	268	2840	3740	550	5550
29	355	9	8.6	---	---	---	3060	450	3720
30	306	8	6.6	---	---	---	3320	500	4480
31	369	20	20	---	---	---	3530	470	4480
MONTH	51306	---	194373.7	184740	---	880090	235440	---	849800
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3060	300	2480	2010	205	1110	1600	110	475
2	2600	212	1490	2270	225	1380	1400	90	340
3	2340	200	1260	2520	225	1530	1170	70	221
4	2170	183	1070	2390	200	1290	1040	53	149
5	2010	162	879	1910	155	799	1020	55	151
6	1780	139	668	1680	132	599	925	59	147
7	1620	115	503	1780	150	721	806	45	98
8	1470	100	397	2080	180	1010	753	49	100
9	1300	90	316	2570	260	1800	683	33	61
10	1230	98	325	2770	290	2170	643	28	49
11	1220	90	296	2680	255	1850	604	24	39
12	1270	86	295	2650	135	966	573	24	37
13	1460	122	481	3010	400	3250	543	24	35
14	1710	150	693	3690	510	5080	514	20	28
15	1600	105	454	3580	405	3910	486	15	20
16	1430	85	328	3060	255	2110	459	13	16
17	1300	77	270	2840	205	1570	428	10	12
18	1210	70	229	3040	217	1780	398	9	9.7
19	1210	70	229	3290	180	1600	369	8	8.0
20	1360	90	330	2720	162	1190	346	7	6.5
21	1540	110	457	2090	148	835	324	7	6.1
22	1680	132	599	1780	140	673	310	7	5.9
23	1720	115	534	1780	155	745	301	7	5.7
24	4520	1130	21000	1980	167	893	294	5	4.0
25	5220	740	10400	2020	148	807	298	6	4.8
26	2940	352	2790	1710	125	577	278	6	4.5
27	2250	280	1700	1760	135	642	261	5	3.5
28	2000	265	1430	1670	135	609	240	5	3.2
29	1910	240	1660	1660	135	605	228	5	3.1
30	2050	230	1270	1670	130	586	213	5	2.9
31	---	---	---	1660	120	538	---	---	---
MONTH	59180	---	54413	72320	---	43225	17507	---	2045.9

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued  
 SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	202	8	4.4	53	3	.43	33	3	.27
2	195	5	2.6	53	3	.43	31	2	.17
3	179	4	1.9	50	3	.41	32	1	.09
4	161	4	1.7	48	2	.26	30	1	.08
5	158	4	1.7	44	2	.24	30	2	.16
6	151	4	1.6	46	2	.25	29	2	.16
7	141	4	1.5	44	3	.36	27	1	.07
8	137	4	1.5	42	4	.45	24	1	.06
9	127	4	1.4	42	3	.34	24	1	.06
10	120	5	1.6	42	2	.23	24	10	.65
11	117	6	1.9	42	2	.23	25	2	.14
12	110	4	1.2	40	2	.22	25	2	.14
13	107	3	.87	38	6	.62	24	2	.13
14	104	2	.56	38	5	.51	24	1	.06
15	99	2	.53	38	4	.41	25	1	.07
16	107	15	4.3	36	4	.39	24	1	.06
17	110	8	2.4	34	4	.37	23	1	.06
18	104	8	2.2	38	4	.41	23	2	.12
19	96	8	2.1	42	6	.68	21	2	.11
20	93	8	2.0	42	6	.68	21	2	.11
21	87	15	3.5	46	6	.75	21	2	.11
22	85	8	1.8	42	6	.68	20	2	.11
23	77	8	1.7	42	6	.68	20	1	.05
24	74	6	1.2	40	6	.65	20	1	.05
25	69	6	1.1	37	5	.50	19	1	.05
26	64	5	.86	38	4	.41	19	1	.05
27	62	5	.84	36	3	.29	18	1	.05
28	62	5	.84	36	2	.19	16	1	.04
29	57	4	.62	34	2	.18	16	3	.13
30	55	4	.59	34	2	.18	15	2	.08
31	53	4	.57	34	2	.18	---	---	---
MONTH	3363	---	51.58	1271	---	12.61	703	---	3.49
YEAR	653240.00		2068593.36						

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1974	717.00	8.80	0	9
NOVEMBER ...	2870.00	16.51	1	18
DECEMBER ...	23823.00	44552.77	4370	48900
JANUARY 1975	51306.00	194373.70	26500	221000
FEBRUARY ...	184740.00	880090.00	147000	1030000
MARCH .....	235440.00	849800.00	192000	1040000
APRIL .....	59180.00	54413.00	16100	70500
MAY .....	72320.00	43225.00	7608	50800
JUNE .....	17507.00	2045.90	300	2346
JULY .....	3363.00	51.58	1	53
AUGUST .....	1271.00	12.61	0	13
SEPTEMBER ..	703.00	3.49	0	3
TOTAL .....	653240.00	2068593.36	393879	2463642

## EEL RIVER BASIN

11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .064 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
DEC.								
03...	1800	9.0	1510	813	3320	33	41	52
04...	0715	8.0	4980	2370	31900	24	33	45
JAN.								
21...	1530	8.5	739	19	38	--	--	--
FEB.								
03...	1200	4.0	1770	197	942	--	--	--
09...	1030	--	18200	2520	124000	--	--	--
11...	0945	--	5320	597	8580	26	35	44
12...	1045	--	10000	2950	79700	20	27	35
13...	1100	8.0	32000	4060	351000	--	--	--
19...	1645	7.5	14600	3840	151000	13	20	28
20...	1300	--	9220	1520	37900	18	24	27
22...	1115	6.0	4000	361	3900	--	--	--
MAR.								
02...	1330	--	7030	960	18200	--	--	--
08...	0945	--	15300	2060	85100	16	24	34
08...	1815	--	11700	1270	40200	--	--	--
18...	1000	--	26000	2450	172000	18	27	34
18...	1430	--	23100	2250	140000	--	--	--
20...	1310	5.5	8690	1140	26800	15	22	28
21...	1345	5.0	8660	1440	33700	--	--	--
22...	1000	4.5	8630	775	18100	--	--	--
24...	1800	--	9860	1090	29000	--	--	--
APR.								
03...	1835	8.0	2270	199	1220	--	--	--
MAY								
21...	1445	8.5	2070	124	694	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
DEC.								
03...	62	70	74	79	89	99	100	--
04...	59	73	82	89	95	99	100	--
JAN.								
21...	--	--	--	82	83	92	100	--
FEB.								
03...	--	--	62	67	76	90	99	100
09...	--	--	67	78	89	96	99	100
11...	54	61	67	76	86	94	96	100
12...	45	56	65	78	90	98	100	--
13...	--	--	67	78	90	97	99	100
19...	36	48	57	70	86	97	99	100
20...	36	45	52	60	71	83	90	96
22...	--	--	77	83	91	98	100	--
MAR.								
02...	--	--	72	82	92	99	100	--
08...	44	58	68	79	91	98	100	--
08...	--	--	66	76	88	96	99	100
18...	46	56	65	76	88	96	100	--
18...	--	--	69	79	89	96	99	100
20...	36	42	48	55	66	78	84	88
21...	--	--	70	80	91	98	100	--
22...	--	--	67	75	86	96	99	100
24...	--	--	69	78	88	97	100	--
APR.								
03...	--	--	83	88	93	100	--	--
MAY								
21...	--	--	81	85	89	96	100	--



11473900 MIDDLE FORK EEL RIVER NEAR DOS RIOS, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
OCT. 11...	1310	17.0	--	15	17	.00	--	--
NOV. 07...	1135	12.0	--	50	37	.00	--	--
JAN. 21...	1415	5.5	5	739	75	118	--	2
FEB. 20...	1300	--	6	9220	124	8050	--	3
MAY 21...	1515	8.5	5	2020	124	635	1	11

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
OCT. 11...	--	--	--	--	--	--	--
NOV. 07...	--	--	--	--	--	--	--
JAN. 21...	13	28	52	78	96	100	--
FEB. 20...	7	18	35	55	76	92	100
MAY 21...	29	40	50	66	87	100	--

## 11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.

LOCATION.--Lat 39°56'18", long 123°20'36", in SW¼ sec.8, T.24 N., R.13 W., Mendocino County, on right bank 0.2 mi (0.3 km) upstream from county road bridge, 1.4 mi (2.3 km) upstream from Asbill Creek, and 2 mi (3 km) south of Mina.

DRAINAGE AREA.--248 mi<sup>2</sup> (642 km<sup>2</sup>).

PERIOD OF RECORD.--August 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,016.8 ft (309.92 m) above mean sea level (levels by Topographic Division). Aug. 27, 1953, to Jan. 15, 1954, water-stage recorder and Jan. 16 to June 22, 1954, nonrecording gage, at site 0.4 mi (0.6 km) downstream at different datums. June 23, 1954, to Dec. 21, 1964, water-stage recorder and Feb. 7 to July 8, 1965, nonrecording gage at site 0.2 mi (0.3 km) downstream at different datums. July 9, 1965, to Aug. 20, 1967, water-stage recorder at site 0.6 mi (1.0 km) downstream at datum 15.1 ft (4.60 m) lower.

AVERAGE DISCHARGE.--22 years, 654 ft<sup>3</sup>/s (18.52 m<sup>3</sup>/s), 473,800 acre-ft/yr (584 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 27,000 ft<sup>3</sup>/s (765 m<sup>3</sup>/s) Mar. 25 (gage height, 18.68 ft or 5.694 m), from rating curve extended above 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s); minimum daily, 1.6 ft<sup>3</sup>/s (0.045 m<sup>3</sup>/s) Oct. 9-24. Period of record: Maximum discharge, 133,000 ft<sup>3</sup>/s (3,770 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 34.5 ft or 10.52 m, from floodmarks, present site and datum), from rating curve extended above 12,000 ft<sup>3</sup>/s (340 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum, 0.1 ft<sup>3</sup>/s (0.003 m<sup>3</sup>/s) Aug. 30, 31, 1959.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	17	24	222	411	1130	1500	532	96	28	5.9	4.3
2	3.2	16	316	192	536	2330	1190	501	94	27	5.9	4.7
3	2.9	12	1390	162	494	1700	1050	528	88	27	5.9	5.0
4	2.6	10	1620	490	798	1220	1050	501	83	26	5.4	5.0
5	2.3	9.8	376	969	672	1010	1090	434	79	24	5.0	4.3
6	2.1	9.8	202	4260	1740	911	977	383	74	24	5.0	4.0
7	1.9	11	135	2290	3960	1770	869	355	72	22	4.7	3.7
8	1.7	53	100	4730	5300	5540	764	342	66	21	4.7	3.4
9	1.6	35	81	1960	7750	2770	681	332	63	19	4.7	3.1
10	1.6	23	68	1660	4080	2100	654	332	58	18	4.7	3.1
11	1.6	18	72	1180	2900	1690	611	342	52	17	4.7	3.1
12	1.6	15	340	864	12500	1220	598	302	52	16	4.3	3.1
13	1.6	14	472	646	11600	994	606	291	49	15	4.3	3.1
14	1.6	13	708	517	3180	864	589	291	46	15	4.0	2.8
15	1.6	12	556	423	1900	818	536	270	43	15	3.4	2.8
16	1.6	11	288	358	1370	1030	564	246	41	15	3.1	2.8
17	1.6	11	218	319	1040	4020	585	231	40	15	3.1	2.6
18	1.6	23	177	284	769	20200	540	222	38	15	4.3	2.6
19	1.6	49	144	240	6970	9260	495	216	38	14	5.4	2.4
20	1.6	29	125	227	4380	3490	455	202	38	13	6.8	2.1
21	1.6	24	114	213	2410	3000	415	179	37	12	7.3	2.1
22	1.6	144	192	180	1730	2960	380	171	35	11	7.3	2.1
23	1.6	64	144	157	1340	2860	780	159	33	11	6.3	2.1
24	1.6	39	125	142	1170	6050	1550	154	33	9.3	5.4	1.8
25	2.1	124	112	135	1140	14400	1530	144	39	8.8	5.4	1.8
26	2.5	102	103	147	1030	4130	1150	135	39	8.2	5.0	1.8
27	2.7	58	1980	132	1020	2880	900	127	36	7.7	4.3	1.8
28	12	42	1420	116	1080	2230	760	123	33	7.2	4.3	1.8
29	51	33	560	109	---	1840	650	116	31	6.8	4.3	1.8
30	28	28	376	77	---	1990	580	107	29	6.8	4.3	1.8
31	18	---	280	137	---	1880	---	103	---	5.9	4.3	---
TOTAL	162.0	1049.6	12818	23538	83270	108287	24099	8371	1555	480.7	153.5	86.9
MEAN	5.23	35.0	413	759	2974	3493	803	270	51.8	15.5	4.95	2.90
MAX	51	144	1980	4730	12500	20200	1550	532	96	28	7.3	5.0
MIN	1.6	9.8	24	77	411	818	380	103	29	5.9	3.1	1.8
AC=FT	321	2080	25420	46690	165200	214800	47800	16600	3080	953	304	172

CAL YR 1974 TOTAL 265071.3 MEAN 726 MAX 30700 MIN 1.6 AC=FT 525800  
WTR YR 1975 TOTAL 263870.7 MEAN 723 MAX 20200 MIN 1.6 AC=FT 523400

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-9	0130	13.65	11,900	3-18	0545	17.54	22,900
2-12	1400	17.29	22,100	3-25	0245	18.68	27,000
2-19	1645	15.41	16,400				

PERIOD OF RECORD.--Water temperatures: October 1972 to current year.  
Sediment records: Water years 1966-67 (partial-record station), October 1972 to current year.  
Turbidity: Water year 1967 (partial-record station).

Sediment discharge: Maximum daily, 426,000 tons (386,000 tonnes) Jan. 16, 1974; minimum daily, 0 tons (0 tonnes) on many days in 1973-75.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

[illegible]

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.4	1	.01	17	1	.05	24	2	.13
2	3.2	1	.01	16	1	.04	316	71	170
3	2.9	1	.01	12	1	.03	1390	234	1820
4	2.6	1	.01	10	1	.03	1620	181	1130
5	2.3	1	.01	9.8	1	.03	376	22	22
6	2.1	1	.01	9.8	1	.03	202	10	5.5
7	1.9	1	.01	11	1	.03	135	8	2.9
8	1.7	1	0	53	10	1.4	100	5	1.4
9	1.6	1	0	35	2	.19	81	3	.66
10	1.6	1	0	23	1	.06	68	2	.37
11	1.6	1	0	18	1	.05	72	2	.39
12	1.6	1	0	15	1	.04	340	25	57
13	1.6	1	0	14	1	.04	472	37	47
14	1.6	1	0	13	1	.04	708	48	144
15	1.6	1	0	12	1	.03	556	31	47
16	1.6	1	0	11	1	.03	288	10	7.8
17	1.6	1	0	11	1	.03	218	6	3.5
18	1.6	1	0	23	5	.31	177	6	2.9
19	1.6	1	0	49	2	.26	144	5	1.9
20	1.6	1	0	29	2	.16	125	4	1.4
21	1.6	1	0	24	2	.13	114	4	1.2
22	1.6	1	0	144	20	7.8	192	5	2.6
23	1.6	1	0	64	5	.86	144	4	1.6
24	1.6	2	.01	39	3	.32	125	4	1.4
25	2.1	2	.01	124	15	5.0	112	3	.91
26	2.5	2	.01	102	8	2.2	103	2	.56
27	2.7	2	.01	58	4	.63	1980	242	2240
28	12	5	.16	42	2	.23	1420	142	544
29	51	10	1.4	33	2	.18	560	25	38
30	28	5	.38	28	2	.15	376	13	13
31	18	2	.10	---	---	---	280	9	6.8
MONTH	162.0	---	2.15	1049.6	---	20.38	12818	---	6315.92

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	222	7	4.2	411	83	140	1130	35	107
2	192	3	1.6	536	45	65	2330	254	1680
3	162	2	.87	494	25	33	1700	135	620
4	490	76	101	798	60	129	1220	78	257
5	969	97	566	672	50	91	1010	36	98
6	4260	1120	13600	1740	200	940	911	23	57
7	2290	988	6840	3960	750	8510	1770	179	1020
8	4730	1120	16500	5300	920	15900	5540	711	11800
9	1960	90	476	7750	1500	35800	2770	168	1260
10	1660	85	381	4080	500	5510	2100	80	454
11	1180	60	191	2900	270	2110	1690	60	274
12	864	35	82	12500	2380	107000	1220	53	175
13	646	22	38	11600	1760	63000	994	45	121
14	517	15	21	3180	600	5150	864	35	82
15	423	10	11	1900	275	1410	818	35	77
16	358	10	9.7	1370	130	481	1030	55	153
17	319	10	8.6	1040	90	253	4020	1230	31300
18	284	8	6.1	769	50	104	20200	3020	166000
19	240	5	3.2	6970	1370	40000	9260	1550	38800
20	227	4	2.5	4380	620	7330	3490	870	8200
21	213	3	1.7	2410	180	1170	3000	636	5150
22	180	6	2.9	1730	80	374	2960	470	3760
23	157	8	3.4	1340	45	163	2860	380	2930
24	142	6	2.3	1170	40	126	6050	976	30200
25	135	6	2.2	1140	36	111	14400	2200	102000
26	147	5	2.0	1030	33	92	4130	1100	12300
27	132	4	1.4	1020	31	85	2880	730	5680
28	116	3	.94	1080	28	82	2230	500	3010
29	109	3	.88	---	---	---	1840	300	1490
30	77	3	.62	---	---	---	1990	190	1020
31	137	4	1.5	---	---	---	1880	170	863
MONTH	23538	---	38863.61	83270	---	296159	108287	---	430938

11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

APRIL					MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	1500	120	486	532	31	45	96	4	1.0	
2	1190	90	289	501	30	41	94	4	1.0	
3	1050	80	227	528	32	46	88	4	.95	
4	1050	80	227	501	30	41	83	3	.67	
5	1090	85	250	434	24	28	79	3	.64	
6	977	75	198	383	20	21	74	3	.60	
7	869	55	129	355	18	17	72	3	.58	
8	764	40	83	342	17	16	66	3	.53	
9	681	30	55	332	16	14	63	3	.51	
10	654	24	42	332	16	14	58	3	.47	
11	611	30	49	342	18	17	52	3	.42	
12	598	24	39	302	14	11	52	3	.42	
13	606	24	39	291	13	10	49	3	.40	
14	589	24	38	291	13	10	46	2	.25	
15	536	20	29	270	12	8.7	43	2	.23	
16	564	24	37	246	10	6.6	41	2	.22	
17	585	26	41	231	9	5.6	40	2	.22	
18	540	20	29	222	9	5.4	38	2	.21	
19	495	19	25	216	8	4.7	38	2	.21	
20	455	16	20	202	7	3.8	38	2	.21	
21	415	14	16	179	7	3.4	37	2	.20	
22	380	12	12	171	6	2.8	35	2	.19	
23	780	45	95	159	6	2.6	33	2	.18	
24	1550	150	628	154	6	2.5	33	2	.18	
25	1530	140	578	144	5	1.9	39	2	.21	
26	1150	110	342	135	5	1.8	39	2	.21	
27	900	80	194	127	5	1.7	36	2	.19	
28	760	60	123	123	4	1.3	33	2	.18	
29	650	45	79	116	4	1.3	31	2	.17	
30	580	35	55	107	4	1.2	29	2	.16	
31	---	---	---	103	4	1.1	---	---	---	
MONTH	24099	---	4454	8371	---	387.4	1555	---	11.61	
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	28	2	.15	5.9	5	.08	4.3	5	.06	
2	27	2	.15	5.9	5	.08	4.7	5	.06	
3	27	2	.15	5.9	5	.08	5.0	5	.07	
4	26	2	.14	5.4	5	.07	5.0	5	.07	
5	24	2	.13	5.0	5	.07	4.3	5	.06	
6	24	2	.13	5.0	4	.05	4.0	4	.04	
7	22	2	.12	4.7	4	.05	3.7	4	.04	
8	21	2	.11	4.7	4	.05	3.4	4	.04	
9	19	2	.10	4.7	4	.05	3.1	4	.03	
10	18	2	.10	4.7	4	.05	3.1	4	.03	
11	17	2	.09	4.7	4	.05	3.1	3	.03	
12	16	2	.09	4.3	4	.05	3.1	3	.03	
13	15	2	.08	4.3	4	.05	3.1	3	.03	
14	15	2	.08	4.0	4	.04	2.8	3	.02	
15	15	2	.08	3.4	4	.04	2.8	3	.02	
16	15	2	.08	3.1	4	.03	2.8	2	.02	
17	15	2	.08	3.1	4	.03	2.6	2	.01	
18	15	2	.08	4.3	8	.09	2.6	2	.01	
19	14	2	.08	5.4	10	.15	2.4	2	.01	
20	13	2	.07	6.8	12	.22	2.1	2	.01	
21	12	3	.10	7.3	15	.30	2.1	1	.01	
22	11	3	.09	7.3	20	.39	2.1	1	.01	
23	11	3	.09	6.3	20	.34	2.1	1	.01	
24	9.3	3	.08	5.4	20	.29	1.8	1	0	
25	8.8	3	.07	5.4	20	.29	1.8	1	0	
26	8.2	4	.09	5.0	15	.20	1.8	1	0	
27	7.7	4	.08	4.3	10	.12	1.8	1	0	
28	7.2	4	.08	4.3	8	.09	1.8	1	0	
29	6.8	4	.07	4.3	5	.06	1.8	1	0	
30	6.8	4	.07	4.3	5	.06	1.8	1	0	
31	5.9	4	.06	4.3	5	.06	---	---	---	
MONTH	480.7	---	2.97	153.5	---	3.58	86.9	---	.72	
YEAR 263870.7 777159.34										

## EEL RIVER BASIN

11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1974	162.00	2.15	0	2
NOVEMBER ...	1049.60	20.38	0	20
DECEMBER ...	12818.00	6315.92	450	6770
JANUARY 1975	23538.00	38863.61	5090	44000
FEBRUARY ...	83270.00	296159.00	76100	372000
MARCH .....	108287.00	430938.00	123000	554000
APRIL .....	24099.00	4454.00	571	5020
MAY .....	8371.00	387.40	18	405
JUNE .....	1555.00	11.61	0	12
JULY .....	480.70	2.97	0	3
AUGUST .....	153.50	3.58	0	4
SEPTEMBER ..	86.90	0.72	0	1
TOTAL .....	263870.70	777159.34	205229	982237

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT DIS- CHARGE (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. 28...	1715	6.0	994	91	244	--	--	--	--	--	--
JAN. 04...	0800	--	393	95	101	--	--	--	--	--	--
06...	2030	6.0	3170	1090	9340	27	36	45	57	68	--
08...	1630	--	3670	715	7090	25	31	38	46	57	--
09...	1730	6.0	1690	83	379	--	--	--	--	--	--
FEB. 07...	1510	5.0	3990	869	9360	--	--	--	--	--	--
08...	2330	5.0	9660	3520	91800	--	--	--	--	--	--
09...	1050	--	6900	1260	23500	--	--	--	--	--	--
09...	1830	--	6250	896	15100	24	33	44	57	70	--
12...	1100	--	15100	4260	174000	--	--	--	--	--	--
12...	1640	--	19100	3520	182000	19	26	35	45	58	--
12...	2100	--	17000	2830	130000	18	24	33	43	56	--
15...	1130	6.0	1820	250	1230	--	--	--	--	--	--
19...	1535	7.0	13300	3270	117000	17	23	32	41	54	--
19...	1730	7.0	15500	2900	121000	20	26	35	47	60	--
MAR. 07...	1500	9.0	2120	287	1640	--	--	--	--	--	--
17...	1900	6.0	7190	2500	48600	22	29	38	49	61	--
19...	0935	8.0	9540	1590	41000	16	23	31	40	50	--
19...	1220	8.0	7850	1530	32500	19	25	33	43	53	62
21...	1230	4.0	3120	579	4880	--	--	--	--	--	--
24...	2220	6.0	16900	4300	196000	18	23	32	42	54	68
24...	2250	--	18500	3840	192000	20	27	35	45	59	72
25...	0040	--	23500	4520	287000	20	27	35	46	58	69
25...	0115	--	24700	4260	284000	21	28	36	47	61	74

11474500 NORTH FORK EEL RIVER NEAR MINA, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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. 28...	86	--	91	--	97	--	100	--	--	--
JAN. 04...	86	--	91	--	98	--	100	--	--	--
06...	77	--	85	--	93	--	100	--	--	--
08...	66	--	77	--	88	--	97	--	98	100
09...	84	--	90	--	95	--	98	--	100	--
FEB. 07...	81	--	94	--	99	--	100	--	--	--
08...	67	--	82	--	95	--	99	--	100	--
09...	73	--	86	--	95	--	99	--	100	--
09...	82	--	93	--	98	--	100	--	--	--
12...	69	--	83	--	95	--	99	--	100	--
12...	70	--	85	--	96	--	99	--	100	--
12...	68	--	82	--	94	--	99	--	100	--
15...	78	--	86	--	95	--	100	--	--	--
19...	67	--	83	--	92	--	99	--	100	--
19...	71	--	84	--	95	--	99	--	100	--
MAR. 07...	82	--	91	--	97	--	100	--	--	--
17...	72	--	86	--	96	--	100	--	--	--
19...	60	--	71	--	82	--	91	--	97	100
19...	--	73	--	84	--	93	--	100	--	--
21...	81	--	90	--	97	--	99	--	100	--
24...	--	83	--	96	--	99	--	100	--	--
24...	--	86	--	98	--	100	--	--	--	--
25...	--	82	--	94	--	99	--	100	--	--
25...	--	87	--	96	--	100	--	--	--	--

## PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
DEC. 17...	1055	7.5	--	220	125	.00		
JAN. 22...	1055	5.5	--	183	111	.00		
MAR. 19...	1230	8.0	5	7670	215	26800		
MAY 20...	1400	13.5	--	205	58	.00		
JUNE 24...	1020	17.0	--	33	30	.00		
MAR. 19...	1230	8.0	5	7670	215	26800	1	3
DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM
MAR. 19...	6	11	19	31	49	65	87	100

## EEL RIVER BASIN

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.

LOCATION.--Lat 40°02'14", long 123°33'10", in NW¼SW¼ sec.7, T.5 S., R.6 E., Humboldt County, on right bank at downstream side of county road bridge, at Dry Creek, 3.2 mi (5.1 km) northwest of Island Mountain, and 3.8 mi (6.1 km) upstream from mouth.

DRAINAGE AREA.--22.6 mi<sup>2</sup> (58.5 km<sup>2</sup>).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 2,090 ft<sup>3</sup>/s (59.2 m<sup>3</sup>/s) Mar. 18 (gage height, 7.75 ft or 2.363 m, from crest-stage gage), from rating curve extended as explained below; minimum daily, 0.38 ft<sup>3</sup>/s (0.011 m<sup>3</sup>/s) Oct. 5.

Period of record: Maximum discharge, 2,830 ft<sup>3</sup>/s (80.1 m<sup>3</sup>/s) Mar. 29, 1974 (gage height, 8.81 ft or 2.685 m), from rating curve extended above 920 ft<sup>3</sup>/s (26.1 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.37 ft<sup>3</sup>/s (0.010 m<sup>3</sup>/s) Sept. 9-26, 1974.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.60	1.7	2.3	29	110	26	65	32	8.4	2.6	1.1	1.0
2	.60	1.3	25	26	79	50	59	31	8.0	2.6	1.0	1.0
3	.52	.92	97	24	150	41	63	31	8.0	2.2	1.0	1.0
4	.44	.80	55	42	125	34	67	26	7.7	2.2	.92	.92
5	.38	1.2	18	155	140	28	70	26	7.7	2.2	.92	.92
6	.52	1.5	14	523	317	24	75	24	7.1	2.2	.92	.92
7	.44	13	9.7	180	448	60	70	23	7.1	2.2	.92	.92
8	.44	2.5	7.0	556	508	120	60	22	6.8	2.0	1.0	.90
9	.52	1.5	6.5	178	302	97	51	21	6.8	2.0	1.0	.90
10	.60	1.2	6.5	158	622	80	50	20	6.5	2.0	.92	.80
11	.60	1.1	7.0	96	145	63	45	20	5.9	2.0	.81	.80
12	.60	.92	13	66	1000	51	42	19	5.9	1.7	.81	.80
13	.60	1.1	14	51	892	41	32	18	5.9	1.7	.81	.80
14	.60	.92	35	41	285	32	39	17	5.6	1.9	1.1	.80
15	.60	1.5	28	33	184	80	37	16	5.6	1.9	1.3	.80
16	.60	1.5	20	27	114	180	35	15	5.0	2.0	1.2	.80
17	.52	1.7	15	22	79	420	32	15	5.0	1.9	1.4	.80
18	.70	2.7	11	20	60	1100	26	14	5.0	1.7	2.0	.80
19	.60	2.3	9.1	18	446	420	24	13	5.0	1.6	1.8	.80
20	.52	2.1	8.5	14	327	190	23	13	4.0	1.6	1.4	.80
21	.60	4.5	12	13	175	410	26	12	3.0	1.6	1.2	.80
22	.52	5.6	11	12	120	320	21	12	3.0	1.6	1.2	.80
23	.60	3.3	8.5	12	90	250	20	12	3.0	1.3	1.2	.80
24	.70	3.0	8.0	9.1	70	400	75	11	3.5	1.3	1.1	.80
25	1.1	4.9	7.0	9.1	61	730	78	11	2.8	1.3	.92	.80
26	.92	4.9	7.0	12	38	306	65	10	3.0	1.2	.92	.80
27	1.7	3.8	150	8.5	31	184	48	10	2.8	1.1	.92	.80
28	20	2.7	133	8.5	27	127	42	9.7	2.8	1.1	1.1	.80
29	5.7	2.3	56	8.0	---	99	45	9.0	2.6	1.1	1.0	.80
30	1.3	2.1	47	7.0	---	81	35	8.7	2.6	1.1	1.0	.80
31	2.1	---	34	28	---	65	---	8.7	---	1.1	1.0	---
TOTAL	46.24	78.56	875.1	2386.2	6945	6109	1420	530.1	156.1	54.0	33.89	25.18
MEAN	1.49	2.62	28.2	77.0	248	197	47.3	17.1	5.20	1.74	1.09	.84
MAX	20	13	150	556	1000	1100	78	32	8.4	2.6	2.0	1.0
MIN	.38	.80	2.3	7.0	27	24	20	8.7	2.6	1.1	.81	.80
AC-FT	92	156	1740	4730	13780	12120	2820	1050	310	107	67	50
CAL. YR 1974	TOTAL	33238.26	MEAN	91.1	MAX	2070	MIN	.37	AC-FT	65930		
WTR YR 1975	TOTAL	18659.37	MEAN	51.1	MAX	1100	MIN	.38	AC-FT	37010		

		Peak discharge (base, 600 ft <sup>3</sup> /s)					
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
1-8	0800	6.00	938	3-18	unknown	7.75	2,090
2-10	unknown	--	700	3-21	unknown	--	860
2-12	unknown	7.67	2,040	3-24	1930	7.46	1,900
2-19	1415	5.87	931				

NOTE.--No gage-height record Feb. 26 to Mar. 18.



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

Sediment concentrations: Maximum daily, 3,900 mg/l Feb. 12; minimum daily, 1 mg/l on several days during August.

Sediment discharge: Maximum daily, 10,500 tons (9,530 tonnes) Feb. 12; minimum daily, 0 tons (0 tonnes) on many days during October and August.

Sediment concentrations: Maximum daily, 8,020 mg/l Jan. 16, 1974; minimum daily, 1 mg/l on many days in 1973-75.

Sediment discharge: Maximum daily, 45,500 tons (41,300 tonnes) Jan. 16, 1974; minimum daily, 0 tons (0 tonnes) on many days in 1973-75.

[illegible]

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.60	3	0	1.7	7	.03	2.3	5	.03
2	.60	3	0	1.3	6	.02	25	200	13
3	.52	3	0	.92	6	.02	97	350	92
4	.44	3	0	.80	5	.01	55	190	28
5	.38	3	0	1.2	5	.02	18	100	4.9
6	.52	4	.01	1.5	5	.02	14	75	2.8
7	.44	3	0	13	12	.42	9.7	64	1.7
8	.44	3	0	2.5	7	.05	7.0	45	.85
9	.52	3	0	1.5	3	.01	6.5	35	.61
10	.60	4	.01	1.2	3	.01	6.5	25	.44
11	.60	4	.01	1.1	3	.01	7.0	30	.57
12	.60	4	.01	.92	3	.01	13	50	1.8
13	.60	3	0	1.1	3	.01	14	40	1.5
14	.60	3	0	.92	3	.01	35	70	6.6
15	.60	3	0	1.5	3	.01	28	20	1.5
16	.60	3	0	1.5	3	.01	20	15	.81
17	.52	3	0	1.7	3	.01	15	10	.41
18	.70	4	.01	2.7	4	.03	11	5	.15
19	.60	3	0	2.3	3	.02	9.1	5	.12
20	.52	3	0	2.1	3	.02	8.5	5	.11
21	.60	3	0	4.5	5	.06	12	200	6.5
22	.52	3	0	5.6	6	.09	11	40	1.2
23	.60	3	0	3.3	5	.04	8.5	25	.57
24	.70	4	.01	3.0	5	.04	8.0	15	.32
25	1.1	6	.02	4.9	6	.08	7.0	8	.15
26	.92	5	.01	4.9	6	.08	7.0	8	.15
27	1.7	6	.03	3.8	5	.05	150	690	279
28	20	18	2.1	2.7	5	.04	133	220	79
29	5.7	17	.35	2.3	5	.03	56	30	4.5
30	1.3	8	.03	2.1	5	.03	47	14	1.8
31	2.1	8	.05	---	---	---	34	8	.73
MONTH	46.24	---	2.65	78.56	---	1.29	875.1	---	531.82
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	29	7	.55	110	410	122	26	15	1.1
2	26	6	.42	79	230	49	50	40	5.4
3	24	6	.39	150	330	134	41	35	3.9
4	42	31	3.5	125	330	111	34	25	2.3
5	155	418	605	140	320	121	28	15	1.1
6	523	1060	1870	317	430	368	24	15	.97
7	180	470	228	448	920	1110	60	200	32
8	556	830	1250	508	860	1180	120	600	194
9	178	127	61	302	1480	1210	97	200	52
10	158	62	26	622	630	1060	80	80	17
11	96	44	11	145	350	137	63	60	10
12	66	35	6.2	1000	3900	10500	51	40	5.5
13	51	30	4.1	892	2000	4820	41	30	3.3
14	41	25	2.8	285	850	654	32	20	1.7
15	33	20	1.8	184	390	194	80	100	22
16	27	15	1.1	114	150	46	180	250	121
17	22	13	.77	79	90	19	420	800	907
18	20	11	.59	60	70	11	1100	3100	9210
19	18	10	.49	446	1950	3430	420	1200	1360
20	14	9	.34	327	750	662	190	1000	513
21	13	8	.28	175	300	142	410	1000	1110
22	12	7	.23	120	150	49	320	910	786
23	12	6	.19	90	55	13	250	400	270
24	9.1	5	.12	70	35	6.6	400	700	756
25	9.1	5	.12	61	26	4.3	730	990	1950
26	12	7	.23	38	25	2.6	306	210	174
27	8.5	5	.11	31	25	2.1	184	170	84
28	8.5	4	.09	27	28	2.0	127	82	28
29	8.0	3	.06	---	---	---	99	40	11
30	7.0	2	.04	---	---	---	81	28	6.1
31	28	30	2.3	---	---	---	65	24	4.2
MONTH	2386.2	---	4077.82	6945	---	26159.6	6109	---	17642.57

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY): WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL				MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	65	21	3.7	32	6	.52	8.4	6	.14	
2	59	20	3.2	31	6	.50	8.0	6	.13	
3	63	40	6.8	31	6	.50	8.0	6	.13	
4	67	70	13	26	7	.49	7.7	6	.12	
5	70	54	10	26	6	.42	7.7	7	.15	
6	75	40	8.1	24	6	.39	7.1	7	.13	
7	70	34	6.4	23	7	.43	7.1	7	.13	
8	60	29	4.7	22	7	.42	6.8	8	.15	
9	51	31	4.3	21	6	.34	6.8	8	.15	
10	50	20	2.7	20	7	.38	6.5	7	.12	
11	45	22	2.7	20	7	.38	5.9	6	.10	
12	42	24	2.7	19	6	.31	5.9	6	.10	
13	32	22	1.9	18	7	.34	5.9	5	.08	
14	39	24	2.5	17	6	.28	5.6	5	.08	
15	37	22	2.2	16	6	.26	5.6	5	.08	
16	35	20	1.9	15	10	.41	5.0	4	.05	
17	32	18	1.6	15	9	.36	5.0	3	.04	
18	26	13	.91	14	8	.30	5.0	3	.04	
19	24	15	.97	13	8	.28	5.0	3	.04	
20	23	7	.43	13	7	.25	4.0	4	.04	
21	26	7	.49	12	7	.23	3.0	4	.03	
22	21	7	.40	12	7	.23	3.0	5	.04	
23	20	6	.32	12	6	.19	3.0	5	.04	
24	75	220	45	11	6	.18	3.5	8	.08	
25	78	68	14	11	5	.15	2.8	6	.05	
26	65	21	3.7	10	5	.14	3.0	6	.05	
27	48	17	2.2	10	5	.14	2.8	5	.04	
28	42	14	1.6	9.7	5	.13	2.8	5	.04	
29	45	10	1.2	9.0	5	.12	2.6	5	.04	
30	35	8	.76	8.7	6	.14	2.6	5	.04	
31	---	---	---	8.7	6	.14	---	---	---	
MONTH	1420	---	150.38	530.1	---	9.35	156.1	---	2.45	
DAY	JULY				AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	2.6	5	.04	1.1	2	.01	1.0	4	.01	
2	2.6	5	.04	1.0	2	.01	1.0	4	.01	
3	2.2	5	.03	1.0	1	0	1.0	4	.01	
4	2.2	10	.06	.92	1	0	.92	3	.01	
5	2.2	10	.06	.92	1	0	.92	3	.01	
6	2.2	10	.06	.92	1	0	.92	3	.01	
7	2.2	9	.05	.92	1	0	.92	3	.01	
8	2.0	9	.05	1.0	1	0	.90	3	.01	
9	2.0	9	.05	1.0	1	0	.80	3	.01	
10	2.0	8	.04	.92	4	.01	.80	3	.01	
11	2.0	8	.04	.81	3	.01	.80	3	.01	
12	1.7	7	.03	.81	2	0	.80	3	.01	
13	1.7	6	.03	.81	2	0	.80	3	.01	
14	1.9	6	.03	1.1	2	.01	.80	3	.01	
15	1.9	5	.03	1.3	2	.01	.80	3	.01	
16	2.0	5	.03	1.2	2	.01	.80	4	.01	
17	1.9	5	.03	1.4	2	.01	.80	4	.01	
18	1.7	5	.02	2.0	2	.01	.80	3	.01	
19	1.6	5	.02	1.8	2	.01	.80	3	.01	
20	1.6	5	.02	1.4	2	.01	.80	9	.02	
21	1.6	4	.02	1.2	2	.01	.80	9	.02	
22	1.6	4	.02	1.2	2	.01	.80	7	.02	
23	1.3	4	.01	1.2	2	.01	.80	6	.01	
24	1.3	3	.01	1.1	2	.01	.80	6	.01	
25	1.3	3	.01	.92	2	.01	.80	8	.02	
26	1.2	3	.01	.92	2	.01	.80	6	.01	
27	1.1	2	.01	.92	2	.01	.80	5	.01	
28	1.1	2	.01	1.1	2	.01	.80	4	.01	
29	1.1	2	.01	1.0	2	.01	.80	4	.01	
30	1.1	2	.01	1.0	3	.01	.80	4	.01	
31	1.1	2	.01	1.0	4	.01	---	---	---	
MONTH	54.0	---	.89	33.89	---	.22	25.18	---	.34	
YEAR 18659.37			48579.38							

## EEL RIVER BASIN

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BFDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1974	46.24	2.65	0	3
NOVEMBER ...	78.56	1.29	0	1
DECEMBER ...	875.10	531.82	99	631
JANUARY 1975	2386.20	4077.82	1640	5720
FEBRUARY ...	6945.00	26159.60	6730	32900
MARCH .....	6109.00	17642.57	5510	23200
APRIL .....	1420.00	150.38	34	184
MAY .....	530.10	9.35	0	9
JUNE .....	156.10	2.45	0	2
JULY .....	54.00	0.89	0	1
AUGUST .....	33.89	0.22	0	0
SEPTEMBER ..	25.18	0.34	0	0
TOTAL .....	18659.37	48579.38	14013	62651

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM
DEC.										
02...	1600	10.0	--	58	486	76	56	70	82	92
27...	1130	8.5	150	--	1600	649	34	48	61	75
27...	1500	8.5	150	--	975	395	45	57	70	83
JAN.										
09...	1030	6.0	178	--	123	59	--	--	--	--
FEB.										
07...	1400	8.0	448	--	1430	1730	24	32	43	55
09...	1200	8.0	302	--	1530	1250	25	36	47	60
12...	1430	9.0	1000	--	8790	23700	22	30	36	46
19...	1505	9.0	--	881	3400	8090	18	26	35	44
25...	1415	10.0	--	57	26	4.0	--	--	--	--
MAR.										
19...	1430	10.0	--	514	1120	1560	28	36	49	62
APR.										
01...	1130	7.0	--	60	19	3.1	--	--	--	--

DATE	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
DEC.										
02...	96	--	97	--	99	--	100	--	--	--
27...	87	94	--	99	--	100	--	--	--	--
27...	91	--	95	--	99	--	100	--	--	--
JAN.										
09...	--	--	92	--	97	--	99	100	--	--
FEB.										
07...	66	--	75	--	81	--	86	90	94	100
09...	72	--	82	--	89	--	99	100	--	--
12...	59	--	68	--	83	--	97	100	--	--
19...	55	--	64	--	74	--	86	95	99	100
25...	--	--	92	--	96	--	98	100	--	--
MAR.										
19...	74	--	82	--	89	--	95	99	100	--
APR.										
01...	--	--	84	--	89	--	97	100	--	--

11474700 CHAMISE CREEK NEAR ISLAND MOUNTAIN, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
DEC. 18...	1355	8.5	--	11	13	.00		
JAN. 30...	1135	2.5	--	6.5	15	.00		
FEB. 19...	1345	9.0	3	881	72	1050		
FEB. 25...	1415	10.0	--	57	31	.00		
MAR. 19...	1345	10.0	3	502	68	890		
APR. 01...	1130	7.0	--	60	43	.00		
MAY 01...	1000	11.5	--	32	35	.00		

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
FEB. 19...	1345	9.0	3	881	72	1050	1	5
MAR. 19...	1345	10.0	3	502	68	890	1	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	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
FEB. 19...	14	20	26	37	54	78	94	100
MAR. 19...	4	8	15	29	52	73	88	100

## EEL RIVER BASIN

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, on right bank at downstream side of bridge, 1.0 mi (1.6 km) southeast of Fort Seward, 1.9 mi (3.1 km) upstream from Dobbyn Creek, and 11.8 mi (19.0 km) northeast of Garberville.

DRAINAGE AREA.--2,107 mi<sup>2</sup> (5,457 km<sup>2</sup>).

PERIOD OF RECORD.--September 1955 to current year. Prior to October 1965, published as "at Alderpoint."

GAGE.--Water-stage recorder. Datum of gage is 217.26 ft (66.221 m) above mean sea level. Prior to Dec. 22, 1964, at site 7.5 mi (12.1 km) upstream at datum 46.55 ft (14.188 m) higher. Feb. 2 to Sept. 30, 1965, at site 7.7 mi (12.4 km) upstream at datum 49.42 ft (15.063 m) higher.

AVERAGE DISCHARGE.--20 years, 5,013 ft<sup>3</sup>/s (142.0 m<sup>3</sup>/s), 3,632,000 acre-ft/yr (4.48 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 115,000 ft<sup>3</sup>/s (3,260 m<sup>3</sup>/s) Mar. 18 (gage height, 36.47 ft or 11.116 m); minimum daily, 24 ft<sup>3</sup>/s (0.68 m<sup>3</sup>/s) Oct. 3-5.

Period of record: Maximum discharge, 561,000 ft<sup>3</sup>/s (15,900 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 87.2 ft or 26.58 m, from floodmarks, site and datum then in use), from rating curve extended above 110,000 ft<sup>3</sup>/s (3,120 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 72.5 ft (22.10 m); minimum daily, 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Aug. 30 to Sept. 5, 1964.

REMARKS.--Records good. Flow slightly regulated by Lake Pillsbury 99 mi (159 km) upstream (see sta 11470000) and by diversion through Potter Valley powerhouse (see sta 11471000).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	201	197	1500	3490	6850	11000	5520	2490	312	90	65
2	26	167	210	1250	12000	9930	9190	5170	2360	301	88	64
3	24	155	2530	1090	9500	10300	8010	5070	2100	293	88	63
4	24	143	10700	1420	13300	8150	7780	5570	1870	286	87	62
5	24	132	4430	3100	10300	6930	7310	4900	1820	279	83	62
6	26	113	2070	17500	12700	6440	6830	4420	1770	268	78	58
7	26	109	1310	15500	21500	8770	6200	4230	1590	254	74	57
8	26	113	998	23800	24000	31400	5750	4360	1420	240	73	52
9	26	147	830	14700	42800	24500	5090	4560	1320	226	71	47
10	27	179	713	10200	40100	17500	4700	4480	1260	210	71	44
11	28	179	660	7440	22000	13800	4500	4500	1130	200	69	45
12	29	159	786	5290	46900	11100	4200	4300	977	188	69	44
13	30	140	2430	4100	95100	9110	4170	4530	912	179	68	44
14	30	124	2820	3380	47000	7920	4410	5400	862	170	62	44
15	31	124	3210	2870	25800	6970	4390	5570	789	162	62	46
16	30	124	2260	2500	18300	9010	4040	5090	714	160	60	42
17	30	120	1650	2190	13800	16900	3880	4570	665	160	60	42
18	30	115	1260	1950	11200	96100	3690	4300	596	168	60	44
19	30	113	1020	1830	21900	73100	3720	4570	560	170	62	43
20	30	135	867	1690	34900	39800	3760	4160	531	162	62	44
21	30	149	836	1590	18100	31800	3870	3440	493	152	65	43
22	30	236	984	1470	12900	40700	4030	3010	456	140	90	44
23	28	568	971	1370	10200	31000	3940	2820	434	140	102	38
24	28	420	788	1290	8870	35000	5980	2940	421	134	108	37
25	28	376	676	1210	8030	85200	13000	3050	416	127	91	36
26	28	554	630	1200	7350	44000	9970	2800	416	118	80	34
27	32	483	5110	1170	6710	25300	7480	2660	394	112	77	37
28	62	345	13100	1070	6750	18500	6240	2630	369	100	72	35
29	144	273	4970	971	---	14600	5820	2590	348	98	68	35
30	295	224	2750	905	---	13100	5550	2580	328	94	65	31
31	263	---	1960	1090	---	12400	---	2530	---	92	66	---
TOTAL	1523	6420	73726	136636	605500	766180	178470	126320	29811	5695	2321	1382
MEAN	49.1	214	2378	4408	21630	24720	5949	4075	994	184	74.9	46.1
MAX	295	568	13100	23800	95100	96100	13000	5570	2490	312	108	65
MIN	24	109	197	905	3490	6440	3690	2530	328	92	60	31
AC-FT	3020	12730	146200	271000	1201000	1520000	354000	250600	59130	11300	4600	2740
CAL YR 1974	TOTAL	2221333	MEAN	6086	MAX	231000	MIN	24	AC-FT	4406000		
WTR YR 1975	TOTAL	1933984	MEAN	5299	MAX	96100	MIN	24	AC-FT	3836000		

Peak discharge (base, 41,000 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-9	1045	24.89	48,400	3-18	0815	36.47	115,000
2-13	1230	35.18	106,000	3-22	0130	25.02	49,000
2-20	0045	25.33	50,400	3-25	0945	35.66	109,000

## 11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1972 to current year (partial-record station).  
 Water temperatures: November 1960 to current year.  
 Sediment records: October 1965 to current year.  
 Turbidity: Water years 1966-68, 1971-73 (partial-record station).

## EXTREMES.--Current year:

Water temperatures: Maximum, 28.5°C July 26; minimum, 4.0°C Jan. 31 to Feb. 2.  
 Sediment concentrations: Maximum daily, 3,950 mg/l Mar. 18; minimum daily, 1 mg/l on many days.  
 Sediment discharge: Maximum daily, 1,020,000 tons (925,000 tonnes) Mar. 18; minimum daily, 0.07 ton (0.06 tonne) Oct. 6-8.

## Period of record:

Water temperatures: Maximum (1960-64, 1965-71, 1972 to current year), 34.5°C June 25, 1968; minimum (1960-65, 1965 to current year), freezing point Dec. 14-17, 1967 (revised).  
 Sediment concentrations: Maximum daily, 13,900 mg/l Jan. 4, 1966; minimum daily, 1 mg/l on many days in 1965-75.  
 Sediment discharge: Maximum daily, 4,270,000 tons (3,870,000 tonnes) Jan. 4, 1966; minimum daily, 0.06 ton (0.05 tonne) Sept. 23, 24, 1970.

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN IN BOTTOM MATERI- AL (N) (MG/KG)
OCT. 09...	1345	26	.00	.00	.00	.03	.12	.15	110
JAN. 09...	1330	13600	.23	.00	.23	.04	.64	.68	--
FEB. 11...	1245	21300	.05	.00	.05	.02	.58	.60	--

DATE	TIME	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHATE (P) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	SPE- CIFIC CON- DUCTI- VANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BOT- TOM MA- TERIAL (C) (G/KG)
OCT. 09...		.00	.03	.01	501	292	19.0	1.1	<.1
JAN. 09...		1.3	.06	.02	--	126	7.0	4.3	--
FEB. 11...		.24	.03	.01	--	119	8.0	6.3	--

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
OCT. 09...	1345	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00
JAN. 09...	1330	.00	--	.0	--	.00	--	.00	--	.00	--	.00

DATE	TIME	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)
OCT. 09...		.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
JAN. 09...		.00	--	.00	--	.00	--	.00	--	.00	--	.00

DATE	TIME	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT. 09...		.00	.00	.00	.0	0	0	0	.00	.00	.00	.00
JAN. 09...		.00	.00	.00	.0	--	0	--	.00	.00	.00	.00

## EEL RIVER BASIN

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MA-TERIAL (UG/G)
OCT. 09...	1345	2	0	2	8	<10	<10	0	<1	0	22
JAN. 09...	1330	1	0	1	--	10	10	0	--	60	--
FEB. 11...	1245	7	7	0	--	10	10	0	--	80	--

DATE	HEXA-VALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)
OCT. 09...	0	<50	<50	0	10	<10	<7	3	18	<100	<97
JAN. 09...	0	<50	<47	3	--	130	40	90	--	<100	<96
FEB. 11...	<10	<50	<49	1	--	80	75	5	--	100	98

DATE	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT. 09...	3	<10	.0	.0	.0	.0	1400	1400	10	30
JAN. 09...	4	--	2.0	.0	2.0	--	120	50	70	--
FEB. 11...	2	--	.4	.0	.4	--	60	50	6	--

## TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	22.0	-- 18.0	-- 12.0	--	10.0	-- 8.0	5.5	-- 4.5	5.0	-- 4.0	10.0	-- 9.5
2	21.0	-- 18.0	-- 12.0	--	9.0	-- 8.5	5.5	-- 4.5	5.0	-- 4.0	9.5	-- 9.0
3	20.0	-- 17.0	-- 12.0	--	9.5	-- 9.0	5.0	-- 4.5	5.0	-- 4.5	9.5	-- 8.5
4	19.0	-- 16.0	-- 12.0	--	9.5	-- 8.5	5.0	-- 4.5	5.5	-- 4.5	9.5	-- 8.5
5	19.0	-- 15.0	-- 12.0	--	9.0	-- 8.5	5.5	-- 5.0	6.0	-- 5.5	10.5	-- 9.0
6	18.0	-- 15.0	-- 13.0	--	9.0	-- 8.5	6.5	-- 5.0	6.5	-- 6.0	10.0	-- 9.0
7	19.0	-- 15.0	-- 13.0	--	10.0	-- 9.0	7.0	-- 6.5	7.5	-- 6.5	10.0	-- 9.0
8	16.5	-- 15.5	-- 12.0	--	9.5	-- 8.5	7.5	-- 7.0	7.0	-- 6.0	9.5	-- 9.0
9	19.5	-- 15.5	-- 12.0	--	9.0	-- 8.0	7.5	-- 5.5	8.0	-- 6.0	9.5	-- 8.5
10	19.0	-- 15.5	-- 12.0	--	9.5	-- 8.5	6.0	-- 5.5	8.0	-- 7.0	10.0	-- 8.5
11	19.0	-- 15.0	-- 13.0	--	9.0	-- 8.5	6.5	-- 5.5	8.0	-- 8.0	9.5	-- 8.5
12	19.0	-- 14.5	-- 14.0	--	9.5	-- 9.0	6.0	-- 5.5	8.0	-- 8.0	10.0	-- 9.0
13	18.5	-- 15.5	-- 14.0	--	9.0	-- 8.0	6.0	-- 5.5	9.0	-- 7.0	11.0	-- 9.0
14	19.0	-- 15.5	14.0	-- 13.0	8.5	-- 8.0	5.5	-- 5.0	8.0	-- 6.5	11.0	-- 9.0
15	19.0	-- 15.5	14.0	-- 13.0	9.5	-- 8.5	6.0	-- 5.5	8.0	-- 6.0	10.0	-- 8.5
16	18.5	-- 15.5	13.5	-- 13.0	10.0	-- 8.5	6.0	-- 5.5	7.5	-- 6.0	10.5	-- 8.5
17	18.5	-- 15.5	13.5	-- 12.5	9.0	-- 8.5	6.0	-- 5.5	6.5	-- 6.0	9.0	-- 7.5
18	18.5	-- 15.5	14.0	-- 12.5	9.5	-- 8.0	6.0	-- 5.5	6.5	-- 6.0	9.0	-- 7.5
19	17.5	-- 14.5	13.5	-- 11.5	9.5	-- 7.0	6.5	-- 5.5	7.5	-- 6.5	9.5	-- 7.5
20	17.5	-- 14.5	13.5	-- 12.0	7.5	-- 7.0	6.5	-- 5.5	7.5	-- 6.5	11.0	-- 8.0
21	17.0	-- 14.5	12.5	-- 12.0	8.5	-- 7.5	6.5	-- 6.0	7.5	-- 6.5	11.0	-- 8.5
22	16.5	-- 13.5	13.5	-- 11.5	8.5	-- 7.0	7.0	-- 6.0	7.5	-- 6.5	10.5	-- 7.5
23	16.0	-- 13.5	11.5	-- 10.0	7.0	-- 6.0	7.5	-- 6.0	7.5	-- 6.5	7.5	-- 6.5
24	16.5	-- 14.0	11.0	-- 9.5	6.5	-- 5.5	7.5	-- 7.0	8.5	-- 7.0	8.0	-- 7.5
25	16.0	-- 14.5	10.0	-- 9.0	6.0	-- 5.5	8.5	-- 7.0	9.5	-- 7.5	9.0	-- 7.0
26	16.0	-- 13.0	11.0	-- 9.5	5.5	-- 5.0	8.5	-- 6.0	8.5	-- 8.5	9.5	-- 8.0
27	15.0	-- 14.0	10.5	-- 9.0	7.0	-- 5.0	7.0	-- 5.5	9.0	-- 8.5	8.5	-- 7.5
28	14.0	-- 13.0	10.5	-- 9.5	6.5	-- 5.5	6.5	-- 5.5	10.5	-- 9.0	9.0	-- 8.0
29	15.0	-- 13.5	11.5	-- 9.0	6.0	-- 5.5	6.0	-- 5.5	--	--	9.5	-- 8.0
30	--	--	11.0	-- 8.5	6.0	-- 5.0	5.5	-- 5.0	--	--	9.5	-- 8.0
31	--	12.0	--	--	5.5	-- 5.0	5.5	-- 4.0	--	--	11.0	-- 8.0
MONTH	22.0	-- 13.0	--	--	10.0	-- 5.0	8.5	-- 4.0	10.5	-- 4.0	11.0	-- 6.5



## 11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	11.0	--	9.5	14.0	--	12.5	19.5	--	17.5	21.5	--	19.5
2	11.0	--	9.5	14.5	--	12.0	20.0	--	17.0	22.0	--	20.0
3	10.0	--	9.0	13.5	--	9.5	20.0	--	16.5	22.5	--	20.5
4	10.0	--	9.0	11.5	--	8.5	20.5	--	17.0	22.0	--	21.5
5	9.5	--	8.0	12.0	--	8.5	22.0	--	18.5	23.5	--	21.0
6	10.0	--	8.0	13.0	--	9.5	21.5	--	17.5	24.5	--	22.5
7	10.0	--	8.5	14.5	--	12.0	21.0	--	16.5	25.0	--	23.0
8	10.5	--	8.0	15.0	--	13.0	21.0	--	17.0	25.0	--	23.0
9	11.5	--	9.0	15.0	--	13.0	22.0	--	18.0	25.5	--	23.0
10	12.5	--	9.5	13.5	--	11.5	23.0	--	20.0	25.5	--	22.5
11	13.5	--	10.5	14.0	--	11.5	23.0	--	19.5	25.0	--	22.5
12	13.5	--	11.0	14.5	--	12.5	23.0	--	20.0	24.5	--	22.0
13	13.5	--	11.5	15.5	--	13.5	24.5	--	21.5	24.5	--	21.5
14	13.0	--	11.0	14.0	--	12.5	24.5	--	21.5	24.5	--	21.5
15	11.0	--	9.5	14.5	--	12.5	25.0	--	21.0	23.5	--	22.0
16	10.0	--	8.0	15.5	--	13.5	23.5	--	18.5	24.5	--	21.5
17	11.0	--	8.0	16.0	--	13.5	21.5	--	18.0	25.0	--	22.0
18	12.0	--	9.5	16.5	--	13.5	21.0	--	18.5	25.5	--	23.0
19	14.0	--	10.5	16.0	--	11.5	21.0	--	18.5	25.5	--	22.5
20	14.0	--	12.0	14.0	--	11.0	21.0	--	19.0	26.5	--	23.5
21	14.5	--	11.5	14.0	--	11.0	21.5	--	20.0	26.5	--	24.0
22	14.0	--	12.0	15.5	--	12.0	21.5	--	19.5	26.5	--	23.0
23	12.0	--	10.5	17.0	--	13.5	19.5	--	17.0	27.0	--	23.5
24	11.5	--	8.5	17.0	--	13.5	18.5	--	16.5	27.0	--	23.0
25	8.5	--	7.5	16.0	--	13.5	20.0	--	17.0	27.0	--	23.5
26	9.0	--	8.0	17.5	--	14.0	21.0	--	18.5	28.5	--	24.0
27	11.5	--	9.0	17.5	--	14.5	21.0	--	19.0	27.5	--	24.0
28	12.0	--	10.5	18.0	--	15.0	21.0	--	19.5	27.5	--	24.0
29	13.0	--	11.0	19.0	--	16.0	21.5	--	19.5	25.0	--	22.0
30	14.0	--	11.5	20.0	--	17.5	21.5	--	20.0	24.5	--	21.0
31	--	--	--	20.0	--	18.0	--	--	--	25.0	--	20.5
MONTH	14.5	--	7.5	20.0	--	8.5	25.0	--	16.5	28.5	--	19.5

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY); WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	28	1	.08	201	2	1.1	197	1	.53
2	26	2	.14	167	1	.45	210	2	1.1
3	24	2	.13	155	1	.42	2530		7440
4	24	2	.13	143	1	.39	10700	1020	29500
5	24	2	.13	132	1	.36	4430	330	3950
6	26	1	.07	113	2	.61	2070	65	363
7	26	1	.07	109	2	.59	1310	20	71
8	26	1	.07	113	3	.92	998	16	43
9	26	2	.14	147	1	.40	830	10	22
10	27	2	.15	179	2	.97	713	9	17
11	28	1	.08	179	2	.97	660	8	14
12	29	1	.08	159	2	.86	786	16	34
13	30	2	.16	140	1	.38	2430	124	892
14	30	3	.24	124	4	1.3	2820	46	355
15	31	5	.42	124	1	.33	3210	42	364
16	30	3	.24	124	1	.33	2260	32	195
17	30	2	.16	120	1	.32	1650	30	134
18	30	2	.16	115	1	.31	1260	23	78
19	30	3	.24	113	1	.31	1020	14	39
20	30	2	.16	135	2	.73	867	11	26
21	30	2	.16	149	2	.80	836	19	43
22	30	1	.08	236	7	4.5	984	31	82
23	28	1	.08	568	8	12	971	7	18
24	28	2	.15	420	5	5.7	788	5	11
25	28	5	.38	376	8	8.1	676	4	7.3
26	28	3	.23	554	14	21	630	4	6.8
27	32	2	.17	483	10	13	5110	1100	31200
28	62	2	.33	345	2	1.9	13100	1540	54500
29	144	4	1.6	273	1	.74	4970	300	4030
30	295	2	1.6	224	1	.60	2750	90	668
31	263	1	.71	---	---	---	1960	21	111
MONTH	1523	---	8.54	6420	---	80.39	73726	---	134215.7

## EEL RIVER BASIN

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1500	15	61	3490	303	3600	6850	155	2870
2	1250	12	40	12000	538	17500	9930	303	8120
3	1090	10	29	9500	260	6670	10300	155	4310
4	1420	56	260	13300	484	17500	8150	130	2860
5	3100	188	2070	10300	240	6670	6930	99	1850
6	17500	2370	121000	12700	290	9940	6440	80	1390
7	15500	1330	55700	21500	900	52200	8770	340	10200
8	23800	2170	146000	24000	570	36900	31400	964	81900
9	14700	300	11900	42800	1490	176000	24500	303	20700
10	10200	258	7110	40100	1500	168000	17500	218	10300
11	7440	265	5320	22000	610	36200	13800	210	7820
12	5290	163	2330	46900	2830	518000	11100	210	6290
13	4100	86	952	95100	3020	801000	9110	199	4890
14	3380	70	639	47000	900	114000	7920	198	4230
15	2870	46	356	25800	570	39700	6970	210	3950
16	2500	34	229	18300	380	18800	9010	212	5160
17	2190	28	166	13800	300	11200	16900	1400	108000
18	1950	21	111	11200	260	7860	96100	3950	1020000
19	1830	18	89	21900	1120	105000	73100	1590	314000
20	1690	15	68	34900	1990	200000	39800	1300	140000
21	1590	14	60	18100	800	39100	31800	1590	143000
22	1470	13	52	12900	347	12100	40700	1230	143000
23	1370	12	44	10200	256	7050	31000	430	36000
24	1290	10	35	8870	246	5890	35000	1030	96900
25	1210	9	29	8030	220	4770	85200	2790	701000
26	1200	8	26	7350	190	3770	44000	540	64200
27	1170	8	25	6710	140	2540	25300	486	33200
28	1070	8	23	6750	120	2190	18500	435	21700
29	971	7	18	---	---	---	14600	390	15400
30	905	6	15	---	---	---	13100	365	12900
31	1090	36	139	---	---	---	12400	348	11700
MONTH	134636	---	354896	605500	---	2424150	766180	---	3037840
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	11000	300	8910	5520	95	1420	2490	44	296
2	9190	220	5460	5170	87	1210	2360	44	280
3	8010	157	3400	5070	150	2050	2100	36	204
4	7780	135	2840	5570	130	1960	1870	30	151
5	7310	130	2570	4900	100	1320	1820	25	123
6	6830	125	2310	4420	66	788	1770	20	96
7	6200	120	2010	4230	60	685	1590	18	77
8	5750	105	1630	4360	65	765	1420	15	58
9	5090	85	1170	4560	70	862	1320	12	43
10	4700	70	888	4480	102	1230	1260	10	34
11	4500	62	753	4500	95	1150	1130	10	31
12	4200	53	601	4300	92	1070	977	10	26
13	4170	56	631	4530	100	1220	912	9	22
14	4410	61	726	5400	150	2190	862	9	21
15	4390	62	735	5570	130	1960	789	8	17
16	4040	59	644	5090	124	1700	714	7	13
17	3880	55	576	4570	110	1360	665	7	13
18	3690	43	428	4300	106	1230	596	6	9.7
19	3720	37	372	4570	100	1230	560	5	7.6
20	3760	37	376	4160	94	1060	531	4	5.7
21	3870	40	418	3440	80	743	493	3	4.0
22	4030	46	501	3010	56	455	456	3	3.7
23	3940	47	500	2820	53	404	434	3	3.5
24	5980	368	9080	2940	50	397	421	3	3.4
25	13000	1460	52800	3050	50	412	416	3	3.4
26	9970	435	11700	2800	50	378	416	3	3.4
27	7450	225	4530	2660	48	345	394	3	3.2
28	6240	150	2530	2630	45	320	369	3	3.0
29	5820	128	2010	2590	44	308	348	3	2.8
30	5550	105	1570	2580	44	307	328	4	3.5
31	---	---	---	2530	44	301	---	---	---
MONTH	178470	---	122669	126320	---	30830	29811	---	1561.9

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JULY				AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	
1	312	4	3.4	90	3	.73	65	1	.18	
2	301	4	3.3	88	4	.95	64	1	.17	
3	293	4	3.2	88	3	.71	63	1	.17	
4	286	4	3.1	87	2	.47	62	1	.17	
5	279	5	3.8	83	2	.45	62	1	.17	
6	268	4	2.9	78	2	.42	58	1	.16	
7	254	3	2.1	74	1	.20	57	1	.15	
8	240	3	1.9	73	1	.20	52	1	.14	
9	226	3	1.8	71	1	.19	47	1	.13	
10	210	3	1.7	71	1	.19	44	1	.12	
11	200	3	1.6	69	1	.19	45	1	.12	
12	188	3	1.5	69	1	.19	44	1	.12	
13	179	4	1.9	68	12	2.2	44	1	.12	
14	170	4	1.8	62	1	.17	44	1	.12	
15	162	5	2.2	62	1	.17	46	1	.12	
16	160	3	1.3	60	1	.16	42	3	.34	
17	160	3	1.3	60	2	.32	42	1	.11	
18	168	3	1.4	60	2	.32	44	1	.12	
19	170	3	1.4	62	2	.33	43	1	.12	
20	162	3	1.3	62	2	.33	44	1	.12	
21	152	3	1.2	65	2	.35	43	1	.12	
22	140	3	1.1	90	2	.49	44	1	.12	
23	140	3	1.1	102	1	.28	38	1	.10	
24	134	3	1.1	108	1	.29	37	1	.10	
25	127	3	1.0	91	1	.25	36	2	.19	
26	118	3	.96	80	1	.22	34	1	.09	
27	112	3	.91	77	1	.21	37	1	.10	
28	100	3	.81	72	1	.19	35	1	.09	
29	98	3	.79	68	1	.18	35	1	.09	
30	94	3	.76	65	1	.18	31	1	.08	
31	92	2	.50	66	1	.18	---	---	---	
MONTH	5695	---	53.13	2321	---	11.71	1382	---	4.05	
YEAR	1933984		6106320.45							

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1974	1523.00	8.54	0	9
NOVEMBER ...	6420.00	80.39	0	80
DECEMBER ...	73726.00	134215.73	8140	142000
JANUARY 1975	136636.00	354896.00	26400	381000
FEBRUARY ...	605500.00	2424150.00	189000	2610000
MARCH .....	766180.00	3037840.00	243000	3280000
APRIL .....	178470.00	122669.00	27200	150000
MAY .....	126320.00	30830.00	11500	42300
JUNE .....	29811.00	1561.90	307	1870
JULY .....	5695.00	53.13	0	53
AUGUST .....	2321.00	11.71	0	12
SEPTEMBER ..	1382.00	4.05	0	4
TOTAL .....	1933984.00	6106320.45	505547	6607328

## EEL RIVER BASIN

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (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.										
03...	1735	--	3460	1120	10500	54	69	85	97	100
03...	2345	--	7010	1930	36600	33	46	62	76	90
04...	1130	--	12700	1220	41900	35	50	67	85	94
13...	1100	--	2000	171	924	--	--	--	--	--
13...	1700	--	3260	1860	16400	--	--	--	--	--
27...	1430	6.0	3130	655	5540	48	60	75	89	96
27...	1830	6.0	7740	2420	50600	29	36	51	66	84
27...	2200	6.0	15800	3030	129000	28	35	47	61	78
29...	1500	6.0	4570	242	2990	--	--	--	--	--
JAN.										
04...	1900	--	1620	117	512	--	--	--	--	--
06...	0330	6.0	10300	2400	66800	21	29	35	47	63
06...	1600	6.0	22200	3510	210000	14	19	24	36	47
08...	1155	7.0	30300	3030	248000	17	25	33	43	56
08...	1545	7.0	28800	2230	173000	22	33	44	57	73
29...	1655	6.0	951	7	18	--	--	--	--	--
FEB.										
09...	0530	8.0	42300	1960	224000	20	28	37	48	61
09...	1045	8.0	48400	1770	231000	29	41	55	70	85
10...	1815	8.0	33600	1170	106000	29	39	50	63	76
11...	1815	--	19200	501	26000	41	51	67	80	89
12...	1230	8.0	38900	2880	303000	28	37	49	64	81
12...	2035	8.0	88000	5880	1400000	16	19	36	48	62
13...	1400	9.0	102000	2540	700000	--	--	--	--	--
20...	1520	7.0	29100	1850	145000	23	29	37	47	58
26...	1120	8.5	7330	193	3820	37	48	59	70	78
MAR.										
18...	1000	--	114000	3100	954000	23	33	44	56	71
18...	1330	--	106000	3220	922000	--	--	--	--	--
20...	1620	8.0	35400	1230	118000	21	29	38	48	58
24...	1100	8.0	34000	1000	91800	--	--	--	--	--
31...	1430	11.0	12600	353	12000	31	38	47	55	69
APR.										
30...	1120	13.0	5520	105	1570	45	59	73	82	88

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.										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	96	--	99	--	100	--	--	--	--
04...	--	100	--	--	--	--	--	--	--	--
13...	--	99	--	100	--	--	--	--	--	--
13...	--	98	--	100	--	--	--	--	--	--
27...	--	97	--	99	--	100	--	--	--	--
27...	93	--	100	--	--	--	--	--	--	--
27...	88	--	98	--	100	--	--	--	--	--
29...	--	92	--	97	--	100	--	--	--	--
JAN.										
04...	--	99	--	100	--	--	--	--	--	--
06...	79	--	95	--	100	--	--	--	--	--
06...	62	--	86	--	99	--	100	--	--	--
08...	67	--	85	--	99	--	100	--	--	--
08...	84	--	96	--	100	--	--	--	--	--
29...	--	96	--	98	--	100	--	--	--	--
FEB.										
09...	72	--	87	--	100	--	--	--	--	--
09...	--	92	--	99	--	100	--	--	--	--
10...	--	88	--	96	--	100	--	--	--	--
11...	--	95	--	98	--	100	--	--	--	--
12...	--	94	--	99	--	100	--	--	--	--
12...	76	--	91	--	99	--	100	--	--	--
13...	--	92	--	99	--	100	--	--	--	--
20...	67	--	77	--	90	--	98	--	100	--
26...	82	--	87	--	93	--	100	--	--	--
MAR.										
18...	83	--	95	--	100	--	--	--	--	--
18...	--	79	--	92	--	99	--	100	--	--
20...	68	--	80	--	90	--	99	--	100	--
24...	--	92	--	98	--	100	--	--	--	--
31...	--	78	--	86	--	93	--	97	--	100
APR.										
30...	--	91	--	94	--	96	--	98	--	100

11475000 EEL RIVER AT FORT SEWARD, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
FEB.								
20...	1330	7.0	7	34600	353	10900	2	5
26...	1230	8.5	5	7330	250	2120	--	--
MAR.								
20...	1715	8.0	4	34700	304	9940	--	7
31...	1520	10.0	5	12600	270	7980	--	5
APR.								
30...	1210	12.0	5	5520	246	629	4	11

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 128 MM
FEB.								
20...	11	21	37	57	73	82	93	100
26...	--	--	--	--	--	--	--	--
MAR.								
20...	75	82	86	91	95	97	99	100
31...	29	84	93	97	99	100	--	--
APR.								
30...	40	89	95	99	100	--	--	--

## EEL RIVER BASIN

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.

LOCATION.--Lat 40°14'14", long 123°38'05", in NW¼NE¼ sec.5, T.3 S., R.5 E., Humboldt County, on left bank at downstream side of county road bridge, 0.2 mi (0.3 km) upstream from Conley Creek, 1.2 mi (1.9 km) northeast of Fort Seward, and 1.6 mi (2.6 km) upstream from mouth.

DRAINAGE AREA.--61.4 mi<sup>2</sup> (159.0 km<sup>2</sup>).

PERIOD OF RECORD.--October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft (76 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 9,620 ft<sup>3</sup>/s (272 m<sup>3</sup>/s) Mar. 18 (gage height, 10.91 ft or 3.325 m), from rating curve extended above 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s); minimum daily, 6.8 ft<sup>3</sup>/s (0.19 m<sup>3</sup>/s) Sept. 30.

Period of record: Maximum discharge, 10,200 ft<sup>3</sup>/s (289 m<sup>3</sup>/s) Dec. 17, 1972 (gage height, 11.04 ft or 3.365 m), from rating curve extended above 1,200 ft<sup>3</sup>/s (34.0 m<sup>3</sup>/s); minimum daily, 6.6 ft<sup>3</sup>/s (0.19 m<sup>3</sup>/s) Sept. 13-18, 1973.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.4	12	45	110	391	700	448	230	85	37	13	10
2	7.4	10	200	100	458	970	408	223	87	35	13	10
3	7.4	9.2	1100	90	428	1480	381	240	87	34	12	9.9
4	7.4	8.4	700	83	458	1000	371	223	80	33	12	9.5
5	7.4	8.0	220	357	400	550	351	211	79	32	11	8.7
6	7.4	9.8	150	1510	558	350	317	199	75	31	11	8.7
7	7.4	15	108	922	1110	360	308	184	74	29	11	8.4
8	7.4	34	78	1920	1400	800	299	173	69	28	11	8.4
9	7.4	26	60	1020	2600	940	281	176	68	28	11	8.0
10	7.4	21	45	781	1500	760	268	181	63	25	11	8.0
11	7.4	15	110	458	631	600	260	176	60	24	11	8.0
12	7.4	14	230	299	4000	390	244	165	57	24	11	8.0
13	7.4	12	560	238	4100	365	252	165	52	24	11	8.0
14	7.4	10	800	193	2300	330	260	162	51	23	11	8.0
15	7.4	8.5	470	164	1530	330	248	157	48	23	11	8.0
16	7.5	8.0	280	143	1100	370	236	147	46	23	10	8.0
17	7.5	7.8	185	129	870	2400	233	142	42	23	11	8.4
18	7.5	10	120	116	2050	6790	214	142	41	22	16	8.4
19	7.2	20	70	104	1400	2680	214	137	40	21	13	8.0
20	6.9	17	54	99	1160	997	208	133	38	20	12	8.0
21	7.0	15	90	93	890	1640	205	124	37	19	12	8.0
22	7.0	100	125	88	700	1530	199	120	36	19	12	8.0
23	7.0	110	100	81	530	1350	202	114	35	18	11	8.0
24	7.0	85	76	75	430	2980	800	114	59	17	11	7.7
25	7.0	60	66	73	355	2660	760	110	49	17	11	7.7
26	10	68	45	83	325	1370	600	104	44	16	11	7.7
27	15	47	1280	68	309	1440	400	102	42	15	10	7.1
28	53	41	600	70	485	1180	300	100	41	15	11	7.1
29	27	41	290	62	---	850	248	98	41	14	11	7.1
30	15	42	190	67	---	680	236	93	40	14	11	6.8
31	13	---	140	120	---	542	---	89	---	14	10	---
TOTAL	315.6	884.7	8587	9716	32468	39384	9751	4734	1666	717	354	245.6
MEAN	10.2	29.5	277	313	1160	1270	325	153	55.5	23.1	11.4	8.19
MAX	53	110	1280	1920	4100	6790	800	240	87	37	16	10
MIN	6.9	7.8	45	62	309	330	199	89	35	14	10	6.8
AC-FT	626	1750	17030	19270	64400	78120	19340	9390	3300	1420	702	487
CAL YR 1974 TOTAL	91581.2	MEAN 251	MAX 5080	MIN 6.9	AC-FT 181700							
WTR YR 1975 TOTAL	108822.9	MEAN 298	MAX 6790	MIN 6.8	AC-FT 215900							

Date	Time	Peak discharge (base, 4,000 ft <sup>3</sup> /s)	G.H.	Discharge	Date	Time	G.H.	Discharge
2-12	unknown	5,300	---	---	3-24	unknown	---	5,800
3-18	0130	10.91	9,620	---				

## 11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.--Continued

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

Sediment records: October 1972 to current year.

## EXTREMES.--Current year:

Sediment concentrations: Maximum daily, 7,960 mg/l Mar. 18; minimum daily, 1 mg/l Oct. 7, 19;

Sediment discharge: Maximum daily, 152,000 tons (138,000 tonnes) Mar. 18; minimum daily, 0.02 ton (0.02 tonne) Oct. 7, 19.

## Period of record:

Sediment concentrations: Maximum daily, 19,200 mg/l Jan. 16, 1974; minimum daily, 1 mg/l May 22, 23, Oct. 7, 19, 1974.

Sediment discharge: Maximum daily, 279,000 tons (253,000 tonnes) Jan. 16, 1974; minimum daily, 0.02 ton (0.02 tonne) Oct. 7, 19, 1974.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	12.0	---	---	4.0	10.0	10.5	---	---	---	---	---
2	22.5	12.0	9.0	8.0	6.0	10.5	9.0	15.5	---	---	23.0	---
3	22.0	12.0	10.0	7.0	6.5	---	7.0	10.0	---	---	---	23.0
4	---	12.0	11.0	6.0	5.0	---	5.0	---	---	---	25.0	---
5	21.0	12.0	11.0	6.0	7.0	10.0	---	---	21.0	---	---	---
6	---	---	10.0	6.0	7.0	12.0	10.0	17.0	---	26.0	22.0	---
7	21.0	12.0	10.0	8.0	7.0	12.0	9.0	---	18.0	---	---	---
8	---	12.0	10.0	8.0	8.0	10.0	11.0	16.0	---	26.0	19.0	---
9	21.0	12.0	9.0	7.0	8.0	10.0	12.0	---	---	---	---	22.0
10	---	13.0	9.0	7.0	7.0	9.0	13.0	13.0	---	24.0	---	---
11	21.0	13.0	9.0	7.0	9.0	9.0	---	---	---	---	---	22.0
12	---	13.0	10.0	---	9.0	9.0	9.0	20.0	---	---	24.0	---
13	21.0	13.0	10.0	8.0	9.0	8.0	11.0	---	19.0	---	26.0	25.0
14	---	13.0	10.0	8.0	8.0	11.0	10.0	15.0	---	25.0	---	---
15	20.0	---	10.0	8.0	8.0	7.0	9.0	---	---	21.0	---	24.0
16	---	---	---	8.0	---	7.0	12.0	18.0	---	---	---	22.5
17	19.0	---	---	8.0	---	8.0	14.0	---	21.0	---	---	24.0
18	---	13.0	---	8.0	8.0	9.0	15.0	14.0	---	---	---	---
19	19.0	13.0	9.0	10.0	---	9.5	---	---	23.0	---	21.0	---
20	---	13.0	11.0	10.0	7.0	9.0	---	16.0	---	22.0	---	24.0
21	17.0	12.0	9.0	10.0	8.0	7.0	16.0	---	---	---	---	---
22	---	11.0	8.0	---	---	6.5	11.0	20.0	---	---	---	20.0
23	14.0	10.0	8.0	---	9.0	9.0	11.0	---	17.0	---	---	---
24	---	10.0	7.0	11.0	12.0	---	9.0	---	18.0	19.0	---	---
25	---	10.0	7.0	5.0	12.0	8.0	9.0	---	23.0	---	21.0	23.0
26	---	10.0	7.0	5.0	---	10.0	11.0	18.0	---	---	---	---
27	14.0	9.0	6.0	7.0	10.5	11.0	---	---	---	19.0	21.0	---
28	13.0	---	6.0	6.0	13.0	10.0	15.0	23.0	18.0	---	---	---
29	13.0	---	6.0	6.0	---	---	15.0	---	---	18.0	---	---
30	---	---	6.0	5.0	---	10.0	15.0	---	19.0	---	---	21.0
31	12.0	---	9.0	3.0	---	11.0	---	23.0	---	22.0	---	---
MONTH	---	---	9.0	7.5	8.0	9.5	11.0	---	---	---	---	---

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	7.4	4	.08	12	16	.52	45	10	1.2
2	7.4	2	.04	10	5	.14	200	640	346
3	7.4	3	.06	9.2	4	.10	1100	1200	3560
4	7.4	2	.04	8.4	3	.07	700	630	1190
5	7.4	2	.04	8.0	2	.04	220	114	68
6	7.4	2	.04	9.8	2	.05	150	48	19
7	7.4	1	.02	15	200	8.1	108	24	7.0
8	7.4	2	.04	34	60	5.5	78	26	5.5
9	7.4	2	.04	26	8	.56	60	28	4.5
10	7.4	2	.04	21	5	.28	45	30	3.6
11	7.4	2	.04	15	4	.16	110	240	71
12	7.4	2	.04	14	6	.23	230	350	217
13	7.4	2	.04	12	3	.10	560	170	257
14	7.4	2	.04	10	4	.11	800	240	518
15	7.4	2	.04	8.5	4	.09	470	150	190
16	7.5	2	.04	8.0	4	.09	280	95	72
17	7.5	2	.04	7.8	4	.08	185	70	35
18	7.5	2	.04	10	100	2.7	120	45	15
19	7.2	1	.02	20	30	1.6	70	28	5.3
20	6.9	2	.04	17	16	.73	54	60	8.7
21	7.0	2	.04	15	700	28	90	330	80
22	7.0	2	.04	100	800	216	125	66	22
23	7.0	2	.04	110	132	39	100	28	7.6
24	7.0	2	.04	85	48	11	76	22	4.5
25	7.0	2	.04	60	90	15	66	20	3.6
26	10	4	.11	68	68	12	45	23	2.8
27	15	6	.24	47	40	5.1	1280	1900	6570
28	53	291	55	41	24	2.7	600	400	648
29	27	70	5.1	41	14	1.6	290	118	92
30	15	28	1.1	42	7	.79	190	78	40
31	13	16	.56	---	---	---	140	60	23
MONTH	315.6	---	63.13	884.7	---	352.44	8587	---	14087.3

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	110	44	13	391	744	866	700	230	435
2	100	28	7.6	458	500	618	970	550	1440
3	90	28	6.8	428	402	509	1480	240	959
4	83	260	58	458	470	581	1000	150	405
5	357	1460	2960	400	420	454	550	100	148
6	1510	2620	11400	558	610	919	350	70	66
7	922	2400	8410	1110	2400	7190	360	570	554
8	1920	2000	10400	1400	3000	11300	800	750	1620
9	1020	850	2340	2600	3500	24600	940	300	761
10	781	850	1790	1500	2000	8100	760	210	431
11	458	480	594	631	800	1360	600	200	324
12	299	300	242	4000	4300	46400	390	190	200
13	238	235	151	4100	2900	32100	365	180	177
14	193	145	76	2300	1350	8380	330	95	85
15	164	86	38	1530	330	1360	330	140	125
16	143	64	25	1100	235	698	370	160	160
17	129	42	15	870	225	529	2400	2770	37900
18	116	25	7.8	2050	220	1220	6790	7960	152000
19	104	23	6.5	1400	3500	13200	2680	5200	37600
20	99	18	4.8	1160	2550	7990	997	3550	9560
21	93	13	3.3	890	1320	3170	1640	3200	14200
22	88	12	2.9	700	790	1490	1530	1650	6820
23	81	11	2.4	530	500	715	1350	1200	4370
24	75	10	2.0	430	340	395	2980	1700	13700
25	73	11	2.2	355	270	259	2660	1730	12400
26	83	11	2.5	325	240	211	1370	550	2030
27	68	13	2.4	309	226	189	1440	500	1940
28	70	12	2.3	485	220	288	1180	290	924
29	62	10	1.7	---	---	---	850	225	516
30	67	10	1.8	---	---	---	680	198	364
31	120	170	55	---	---	---	542	186	272
MONTH	9716	---	38624.0	32468	---	175091	39384	---	302486



11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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	448	170	206	230	40	25	85	14	3.2
2	408	150	165	223	27	16	87	14	3.3
3	381	140	144	240	84	54	87	13	3.1
4	371	130	130	223	55	33	80	13	2.8
5	351	120	114	211	40	23	79	12	2.6
6	317	104	89	199	22	12	75	10	2.0
7	308	78	65	184	22	11	74	8	1.6
8	299	71	57	173	26	12	69	8	1.5
9	281	49	37	176	26	12	68	8	1.5
10	268	42	30	181	26	13	63	8	1.4
11	260	46	32	176	26	12	60	8	1.3
12	244	56	37	165	48	21	57	8	1.2
13	252	54	37	165	35	16	52	9	1.3
14	260	46	32	162	26	11	51	9	1.2
15	248	28	19	157	26	11	48	9	1.2
16	236	22	14	147	32	13	46	9	1.1
17	233	22	14	142	25	9.6	42	8	.91
18	214	30	17	142	25	9.6	41	8	.89
19	214	22	13	137	24	8.9	40	11	1.2
20	208	18	10	133	23	8.3	38	10	1.0
21	205	13	7.2	124	19	6.4	37	9	.90
22	199	12	6.4	120	13	4.2	36	8	.78
23	202	100	55	114	13	4.0	35	7	.66
24	800	820	1770	114	13	4.0	59	9	1.4
25	760	430	882	110	13	3.9	49	6	.79
26	600	150	243	104	14	3.9	44	6	.71
27	400	100	108	102	14	3.9	42	6	.68
28	300	74	60	100	14	3.8	41	5	.55
29	248	44	29	98	14	3.7	41	5	.55
30	236	52	33	93	14	3.5	40	5	.54
31	---	---	---	89	16	3.8	---	---	---
MONTH	9751	---	4455.6	4734	---	376.5	1666	---	41.86
JULY				AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	37	5	.50	13	5	.18	10	3	.08
2	35	5	.47	13	8	.28	10	3	.08
3	34	5	.46	12	5	.16	9.9	3	.08
4	33	5	.45	12	5	.16	9.5	3	.08
5	32	5	.43	11	5	.15	8.7	3	.07
6	31	11	.92	11	5	.15	8.7	3	.07
7	29	8	.63	11	5	.15	8.4	3	.07
8	28	5	.38	11	5	.15	8.4	3	.07
9	28	5	.38	11	5	.15	8.0	3	.06
10	25	6	.41	11	5	.15	8.0	2	.04
11	24	5	.32	11	5	.15	8.0	2	.04
12	24	5	.32	11	5	.15	8.0	2	.04
13	24	5	.32	11	5	.15	8.0	2	.04
14	23	5	.31	11	3	.09	8.0	2	.04
15	23	5	.31	11	3	.09	8.0	3	.06
16	23	5	.31	10	3	.08	8.0	3	.06
17	23	5	.31	11	3	.09	8.4	2	.05
18	22	5	.30	16	3	.13	8.4	2	.05
19	21	5	.28	13	3	.11	8.0	2	.04
20	20	6	.32	12	3	.10	8.0	2	.04
21	19	5	.26	12	3	.10	8.0	2	.04
22	19	5	.26	12	3	.10	8.0	3	.06
23	18	5	.24	11	3	.09	8.0	3	.06
24	17	4	.18	11	3	.09	7.7	3	.06
25	17	4	.18	11	2	.06	7.7	3	.06
26	16	4	.17	11	3	.09	7.7	2	.04
27	15	9	.36	10	3	.08	7.1	2	.04
28	15	4	.16	11	3	.09	7.1	2	.04
29	14	3	.11	11	3	.09	7.1	2	.04
30	14	3	.11	11	3	.09	6.8	2	.04
31	14	4	.15	10	3	.08	---	---	---
MONTH	717	---	10.31	354	---	3.78	245.6	---	1.64

## EEL RIVER BASIN

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1974	315.60	63.13	0	63
NOVEMBER ...	884.70	352.44	6	358
DECEMBER ...	8587.00	14087.30	6640	20700
JANUARY 1975	9716.00	38624.00	10500	49100
FEBRUARY ...	32468.00	175091.00	51400	227000
MARCH .....	39384.00	302486.00	63000	366000
APRIL .....	9751.00	4455.60	3950	8400
MAY .....	4734.00	376.50	150	527
JUNE .....	1666.00	41.86	7	49
JULY .....	717.00	10.31	0	10
AUGUST .....	354.00	3.78	0	4
SEPTEMBER ..	245.60	1.64	0	2
TOTAL .....	108822.90	535593.56	135653	672213

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PEN- DED SEDIM- ENT (MG/L)	SUS- PEN- DED SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
OCT. 28...	1430	13.0	--	72	857	167	58	74	86	97	100	--
NOV. 07...	1000	12.0	--	15	97	3.9	--	--	--	--	--	--
DEC. 03...	1600	10.0	1100	--	359	1070	65	78	89	98	100	--
03...	2200	--	1100	--	2840	8450	33	46	55	68	82	91
04...	0830	11.0	700	--	647	1220	43	53	66	79	89	--
27...	1000	6.0	1280	--	5500	19000	29	38	49	63	80	90
JAN. 06...	1235	6.0	--	1480	2320	9280	27	36	47	59	70	82
08...	0745	8.0	--	2220	2250	13500	26	36	43	59	71	83
14...	1430	8.0	--	190	132	68	--	--	--	--	--	--
FEB. 01...	0705	4.0	--	197	142	76	--	--	--	--	--	--
09...	1600	8.0	2600	--	2800	19700	--	--	--	--	--	84
20...	1000	7.0	--	1140	2730	8410	13	19	24	31	38	44
27...	1415	10.5	--	309	223	186	22	26	32	37	41	--
MAR. 05...	1930	10.0	--	E480	96	124	--	--	--	--	--	--
17...	1800	8.0	--	3970	5000	53600	--	--	--	--	--	--
17...	2110	8.0	--	7430	6010	121000	29	36	46	59	73	86
18...	0900	9.0	--	8140	8280	182000	--	--	--	--	--	--
19...	1845	9.5	--	1880	4770	24200	16	24	30	39	47	55
APR. 01...	1800	10.5	--	448	178	215	38	44	55	66	78	--

11475100 DOBBYN CREEK NEAR FORT SEWARD, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. SIEVE DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. SIEVE DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. SIEVE DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM	SUS. SED. SIEVE DIAM. % FINER THAN 2.00 MM
OCT. 28...	--	--	--	--	--	--	--	--	--	--	--
NOV. 07...	100	--	--	--	--	--	--	--	--	--	--
DEC. 03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	97	--	100	--	--	--	--	--	--	--
04...	94	--	98	--	100	--	--	--	--	--	--
27...	--	98	--	100	--	--	--	--	--	--	--
JAN. 06...	--	93	--	100	--	--	--	--	--	--	--
08...	--	96	--	100	--	--	--	--	--	--	--
14...	86	--	92	--	98	--	100	--	--	--	--
FEB. 01...	90	--	95	--	99	--	100	--	--	--	--
09...	--	94	--	99	--	100	--	--	--	--	--
20...	--	49	--	63	--	80	--	96	--	100	--
27...	44	--	47	--	51	--	62	--	89	--	100
MAR. 05...	94	--	97	--	99	--	100	--	--	--	--
17...	88	--	98	--	100	--	--	--	--	--	--
17...	--	97	--	100	--	--	--	--	--	--	--
18...	72	--	88	--	99	--	100	--	--	--	--
19...	--	63	--	71	--	82	--	100	--	--	--
APR. 01...	82	--	85	--	89	--	93	--	95	--	100

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE.  
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)
OCT. 02...	1440	7.4	28	.00
NOV. 14...	1045	10	30	.00
DEC. 20...	1300	57	32	.00
JAN. 29...	1015	64	26	.00
JUNE 19...	1600	40	26	.00

DATE	TIME	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
FEH. 20...	0920	4	1180	145	1470	1	6	29
27...	1320	4	309	134	44	--	3	29
MAR. 19...	1915	4	1920	148	3350	--	2	10
APR. 01...	1720	5	448	94	125	--	1	2
30...	1545	3	236	52	31	--	1	7

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 128 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 152 MM
FEH. 20...	43	52	59	66	77	90	100	--	--
27...	67	87	95	98	100	--	--	--	--
MAR. 19...	23	38	48	58	68	78	88	94	100
APR. 01...	10	26	36	48	67	81	96	100	--
30...	28	52	69	83	94	99	100	--	--

## EEL RIVER BASIN

11475250 EEL RIVER AT SOUTH FORK, CALIF.

LOCATION.--Lat 40°21'04", long 123°54'48", in SE&NE¼ sec.2, T.1 S., R.2 E., Humboldt County, 0.2 mi (0.3 km) upstream from Northwestern Pacific Railroad Bridge, 0.4 mi (0.6 km) north of town of South Fork, and 0.5 mi (0.8 km) upstream from South Fork.

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to current year. Published as "near McCann" in 1952-53, and as "at McCann" in 1954-67.

REMARKS.--Records furnished by California Department of Water Resources. Exact sampling location subject to change due to seasonal accessibility to river. Records of discharge given for 11475000 Eel River at Fort Seward.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT. 02...	1605	26	330	7.9	18.0	1	9.5
NOV. 13...	1445	140	338	8.3	13.0	0	10.5
DEC. 03...	1430	2530	270	8.0	10.5	70	10.2
JAN. 07...	1430	15500	105	8.0	8.5	350	11.7
FEB. 19...	1650	21900	121	7.9	9.0	590	11.3
MAR. 11...	1310	13800	131	8.4	9.0	160	10.9
APR. 15...	1400	4390	154	7.6	11.0	30	10.0
MAY 13...	1320	4530	133	7.9	17.5	45	9.4
JUNE 10...	1435	1260	160	7.9	17.5	10	9.4
JULY 08...	1330	240	219	8.1	22.0	1	9.5
AUG. 12...	1155	69	285	7.8	21.0	0	8.5
SEP. 03...	1455	63	283	7.9	20.5	0	9.5

DATE	TIME	DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
NOV. 13...	1445	140	--	--	10	138	0	113	10
DEC. 03...	1430	2530	--	--	7.6	111	0	91	5.8
FEB. 19...	1650	21900	--	--	4.6	66	0	54	.8
APR. 15...	1400	4390	3000	40	3.8	79	0	65	1.7
JUNE 10...	1435	1260	--	--	3.3	77	0	63	.9
AUG. 12...	1155	69	--	--	6.8	145	0	119	5.0
SEP. 03...	1455	63	--	--	7.6	139	0	114	7.4

11475250 EEL RIVER AT SOUTH FORK, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (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)	TEMPER- ATURE (DEG C)
NOV. 13...	--	--	--	153	40	.4	338	8.3	13.0
DEC. 03...	--	--	--	117	26	.3	270	8.0	10.5
FEB. 19...	--	--	--	58	4	.3	121	7.9	9.0
APR. 15...	.02	.10	.03	69	4	.2	154	7.6	11.0
JUNE 10...	--	--	--	65	2	.2	160	7.9	17.5
AUG. 12...	--	--	--	135	16	.3	285	7.8	21.0
SEP. 03...	--	--	--	132	18	.3	283	7.9	20.5

DATE	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV. 13...	0	10.5	1.1	200	--	--	--	--
DEC. 03...	70	10.2	1.8	200	--	--	--	--
FEB. 19...	590	11.3	1.3	100	--	--	--	--
APR. 15...	30	10.0	3.2	0	0	0	0	10
JUNE 10...	10	9.4	1.6	0	--	--	--	--
AUG. 12...	0	8.5	3.7	100	--	--	--	--
SEP. 03...	0	9.5	2.8	100	--	--	--	--

## EEL RIVER BASIN

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, on right bank 0.2 mi (0.3 km) upstream from mouth, and 5.3 mi (8.5 km) north of Branscomb.  
Rain gage No. 1: Lat 39°43'50", long 123°38'07", in NW¼NW¼ sec.28, T.22 N., R.16 W., altitude, 1,440 ft (439 m) at site 0.5 mi (0.8 km) east of gaging station.  
Rain gage No. 2: Lat 39°42'36", long 123°37'03", in NW¼SW¼ sec.34, T.22 N., R.16 W., altitude, 2,680 ft (817 m) at site 2 mi (3 km) southeast of gaging station.

DRAINAGE AREA.--6.50 mi<sup>2</sup> (16.84 km<sup>2</sup>).

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

GAGE.--Water-state recorder and two recording and storage-type precipitation gages. Datum of gage is 1,391.08 ft (424.001 m) above mean sea level.

AVERAGE DISCHARGE.--8 years, 31.9 ft<sup>3</sup>/s (0.903 m<sup>3</sup>/s), 23,110 acre-ft/yr (28.5 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 906 ft<sup>3</sup>/s (25.7 m<sup>3</sup>/s) Mar. 18 (gage height, 7.64 ft or 2.329 m); minimum daily, 0.67 ft<sup>3</sup>/s (0.019 m<sup>3</sup>/s) Oct. 9-26.

Period of record: Maximum discharge, 2,280 ft<sup>3</sup>/s (64.6 m<sup>3</sup>/s) Mar. 29, 1974 (gage height, 9.77 ft or 2.978 m), from rating curve extended above 660 ft<sup>3</sup>/s (18.7 m<sup>3</sup>/s) on basis of slope-area measurements at gage heights 9.40 ft (2.865 m) and 11.41 ft (3.478 m); minimum daily, 0.50 ft<sup>3</sup>/s (0.014 m<sup>3</sup>/s) Sept. 28-30, Oct. 4-17, 1970.

Flood of Dec. 22, 1964, reached a stage of 11.41 ft (3.478 m), from floodmarks (discharge, 3,660 ft<sup>3</sup>/s or 104 m<sup>3</sup>/s, by slope-area measurement of maximum flow).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.80	1.5	2.3	18	22	35	44	31	7.0	3.3	1.6	1.1
2	.80	1.3	10	15	40	44	41	28	6.7	3.3	1.5	1.1
3	.80	1.1	22	13	34	42	38	28	6.5	3.2	1.5	1.1
4	.80	1.0	31	20	55	39	36	25	6.5	3.2	1.4	1.1
5	.80	.91	16	30	51	37	34	24	6.2	3.0	1.4	1.1
6	.80	.88	11	111	71	34	33	22	5.9	3.0	1.4	1.1
7	.80	1.3	8.2	107	155	42	32	21	5.7	2.8	1.4	1.0
8	.68	2.3	6.8	177	138	110	31	19	5.5	2.8	1.3	1.0
9	.67	2.0	5.6	99	189	95	29	18	5.5	2.7	1.3	1.0
10	.67	1.7	5.0	68	172	83	29	18	5.2	2.6	1.3	1.0
11	.67	1.5	4.8	52	128	72	29	17	5.2	2.6	1.3	1.0
12	.67	1.4	7.3	42	357	62	28	16	5.0	2.4	1.2	1.0
13	.67	1.4	8.7	37	544	56	27	15	4.8	2.3	1.2	1.0
14	.67	1.2	11	33	186	52	26	14	4.4	2.3	1.2	1.0
15	.67	1.2	13	29	124	53	26	14	4.4	2.3	1.2	1.0
16	.67	1.2	11	26	92	55	25	13	4.2	2.3	1.2	1.0
17	.67	1.5	9.3	24	73	163	23	13	4.2	2.3	1.2	1.0
18	.67	2.8	8.0	22	63	634	22	12	4.2	2.3	1.3	.96
19	.67	2.3	7.0	21	144	290	21	11	4.2	2.3	1.3	.88
20	.67	2.0	6.3	19	152	161	20	11	4.0	2.3	1.3	.88
21	.67	9.7	7.0	17	107	157	19	11	4.0	2.1	1.3	.88
22	.67	8.7	6.6	16	80	161	18	10	3.8	2.1	1.3	.88
23	.67	4.6	5.9	15	63	135	18	9.9	3.8	2.0	1.2	.88
24	.67	3.8	5.4	14	54	184	54	9.3	3.8	1.9	1.2	.88
25	.67	6.1	5.2	14	46	341	62	9.0	3.8	1.8	1.2	.88
26	.67	5.2	5.0	13	42	172	54	8.4	3.8	1.8	1.1	.88
27	1.0	4.2	58	13	40	121	47	7.8	3.7	1.8	1.1	.88
28	5.0	3.5	54	12	37	87	42	7.5	3.5	1.6	1.1	.88
29	4.0	2.9	35	12	---	68	37	7.2	3.3	1.6	1.1	.88
30	2.3	2.6	27	11	---	58	34	7.2	3.3	1.6	1.1	.88
31	1.8	---	22	13	---	51	---	7.2	---	1.6	1.1	---
TOTAL	32.44	81.79	435.4	1113	3259	3694	979	464.5	142.1	73.2	39.3	29.12
MEAN	1.05	2.73	14.0	35.9	116	119	32.6	15.0	4.74	2.36	1.27	.97
MAX	5.0	9.7	58	177	544	634	62	31	7.0	3.3	1.6	1.1
MIN	.67	.88	2.3	11	22	34	18	7.2	3.3	1.6	1.1	.88
AC=FT	64	162	864	2210	6460	7330	1940	921	282	145	78	58
(a)	4.42	4.87	10.01	10.08	19.74	15.52	5.21	.55	.25	.06	.71	0
(b)	---	---	---	---	---	---	---	---	---	---	.69	0

CAL YR 1974 TOTAL 12925.84 MEAN 35.4 MAX 1470 MIN .67 AC=FT 25640  
WTR YR 1975 TOTAL 10342.85 MEAN 28.3 MAX 634 MIN .67 AC=FT 20520

Date	Time	Peak discharge (base, 450 ft <sup>3</sup> /s)	G.H.	Discharge	Date	Time	G.H.	Discharge	a Precipitation, in inches, at rain gage No. 1.
2-13	0200	7.52	848	3-24	2400	6.63	488		b Precipitation, in inches, at rain gage No. 2.
3-18	0500	7.64	906						

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: February 1968 to current year.

Water temperatures: October 1967 to current year.

Sediment records: Water years 1969-73 (partial-record station), October 1973 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 18.0°C July 26; minimum, 4.0°C Jan. 31.

Sediment concentrations: Maximum daily, 187 mg/l Mar. 18; minimum daily, 1 mg/l on many days.

Sediment discharge: Maximum daily, 351 tons (318 tonnes) Mar. 18; minimum daily, 0 tons (0 tonnes) on many days during October, November, July to September.

Period of record:

Water temperatures: Maximum, 21.0°C on several days in 1968, 1969, and 1974; minimum (1967-70, 1972 to current year), 2.5°C Dec. 10, 1972.

Sediment concentrations: Maximum daily, 1,090 mg/l Jan. 16, 1974; minimum daily, 1 mg/l on many days in 1973-75.

Sediment discharge: Maximum daily, 4,580 tons (4,150 tonnes) Jan. 16, 1974; minimum daily, 0 tons (0 tonnes) on many days in 1973-75.

REMARKS.--Chemical-quality samples collected 0.2 mi (0.3 km) downstream from gaging station. Where no maximum or minimum is shown, temperature is once-daily reading. Zero bedload discharge observed at flows less than 62 ft<sup>3</sup>/s (1.76 m<sup>3</sup>/s).

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)
OCT.											
14...	1645	.67	13	--	20	--	14	3.3	7.6	.7	75
NOV.											
12...	1400	1.3	13	40	20	0	14	4.7	7.3	.9	72
DEC.											
17...	1400	8.8	--	--	--	--	--	--	--	--	--
17...	1630	8.5	13	--	20	--	11	3.0	6.4	.6	57
JAN.											
15...	1310	28	15	--	10	--	8.9	2.9	5.4	.7	52
FEB.											
18...	1400	61	14	--	90	--	12	2.9	4.4	.4	50
MAR.											
18...	1400	648	12	--	40	--	5.8	2.1	3.5	.8	31
MAY											
06...	1410	20	15	--	50	--	9.7	2.9	5.2	.7	51
JULY											
18...	1015	2.3	14	--	10	--	14	4.1	7.0	.7	70
AUG.											
26...	1630	1.1	14	--	60	--	12	4.1	7.5	.8	73
SEP.											
22...	1515	.88	12	--	20	--	13	4.3	7.8	.7	72

DATE	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)
OCT.										
14...	--	62	2.5	2.5	.1	.01	.00	.01	.01	--
NOV.										
12...	--	59	3.3	2.7	.1	.04	.00	.04	.00	--
DEC.										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	47	2.3	1.0	.1	.02	.00	.02	.00	--
JAN.										
15...	--	43	2.6	1.4	.1	.10	.00	.10	.12	--
FEB.										
18...	--	41	6.3	1.9	.1	.01	.00	.01	.02	--
MAR.										
18...	0	25	1.1	.7	.0	.02	.00	.02	.02	--
MAY										
06...	0	42	1.8	2.5	.1	.01	.01	.02	.00	--
JULY										
18...	0	57	5.6	2.2	.1	.00	.01	.01	.01	.00
AUG.										
26...	0	60	2.8	2.4	.1	.01	.01	.02	.01	--
SEP.										
22...	0	59	3.7	2.6	.1	.23	.00	.23	.01	--

## EEL RIVER BASIN

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
OCT. 14...	.04	--	81	.11	.15	49	0	25	.5	132
NOV. 12...	.04	--	82	.11	.29	54	0	22	.4	130
DEC. 17...	--	--	--	--	--	--	--	--	--	98
17...	.03	--	66	.09	1.51	40	0	26	.4	103
JAN. 15...	.02	--	63	.09	4.80	34	0	25	.4	85
FEB. 18...	.01	--	67	.09	.00	42	1	18	.3	78
MAR. 18...	.05	--	41	.06	71.7	23	0	24	.3	49
MAY 06...	.02	--	63	.09	3.40	36	0	23	.4	89
JULY 18...	.03	.02	82	.11	.51	52	0	22	.4	117
AUG. 26...	.45	--	80	.11	.24	47	0	25	.5	129
SEP. 22...	.06	--	80	.11	.19	50	0	25	.5	117

DATE	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO2) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	CYANIDE (CN) (MG/L)	DIS- SOLVED BORON (B) (UG/L)
OCT. 14...	--	9.5	10.3	91	--	83	83	30	--	20
NOV. 12...	6.9	7.5	10.8	95	15	33	88	45	.00	50
DEC. 17...	7.8	7.5	11.6	97	--	47	44	88	--	--
17...	--	7.5	--	--	--	--	--	--	--	40
JAN. 15...	7.5	8.0	12.8	108	2.6	86	84	82	--	30
FEB. 18...	7.2	8.5	11.4	96	5.0	87	84	84	--	30
MAR. 18...	7.0	9.0	10.7	94	5.0	832	815	818	--	10
MAY 06...	7.5	10.5	10.9	98	2.6	814	0	81	--	20
JULY 18...	7.4	14.0	9.7	94	4.5	65	83	816	.00	50
AUG. 26...	7.5	16.0	9.4	97	3.7	81700	81	42	--	40
SEP. 22...	8.0	13.5	9.9	95	1.2	0	89	32	--	40

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



11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
OCT. 14...	1645	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00

DATE	TIME	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)
OCT. 14...		.00	.0	.00	.0	.00	.00	.0	.00	.0	.00	.00

DATE	TIME	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT. 14...		.00	.00	.00	.0	0	0	0	.00	.00	.00	.00

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL BARIUM (BA) (UG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	TOTAL SILVER (AG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV. 12...	1400	2	<100	50	<10	0	<10	<100	.0	0	<10	7

## RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDE GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS RETA AS SR90 /Y90 (PC/L)	SUS- PENDE GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)
NOV. 12...	1400	1.3	77	<1	<.8	<.4	.7	<.4	.6	<.4	.02	.03
AUG. 26...	1630	1.1	85	<1	<1.1	<.4	.8	<.4	.7	<.4	.02	.05
SEP. 22...	1750	.88	80	<1	<.6	<.4	1.1	<.4	.9	<.4	.01	.02

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (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
FEB. 12...	1600	8.5	458	128	158	81	88	93	97	100
13...	0900	9.0	556	114	171	83	89	94	99	100
13...	1700	--	423	65	74	87	94	98	100	--

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		MIN	NOV		MIN	DEC		MIN	JAN		MIN	FEB		MIN	MAR		MIN
	MAX	DAILY		MAX	DAILY		MAX	DAILY		MAX	DAILY		MAX	DAILY		MAX	DAILY	
1	11.0	--	11.0	9.0	--	9.0	6.0	--	6.0	5.5	--	5.5	4.5	--	4.5	10.0	--	10.0
2	11.0	--	11.0	9.0	--	8.0	7.0	--	6.0	6.0	--	5.0	5.0	--	4.5	10.0	--	9.0
3	11.0	--	11.0	8.5	--	8.0	8.0	--	7.0	6.0	--	5.5	5.5	--	5.0	9.0	--	8.5
4	11.0	--	11.0	8.0	--	8.0	8.0	--	8.0	6.5	--	6.0	5.5	--	5.5	9.5	--	9.0
5	11.0	--	11.0	8.0	--	8.0	8.0	--	8.0	7.0	--	6.5	6.0	--	5.5	10.0	--	9.5
6	11.0	--	10.0	8.0	--	8.0	8.0	--	8.0	8.0	--	7.0	7.0	--	6.0	10.0	--	10.0
7	10.0	--	10.0	8.5	--	8.0	8.0	--	8.0	8.0	--	8.0	7.0	--	7.0	10.0	--	10.0
8	10.0	--	10.0	9.0	--	8.5	8.0	--	8.0	8.0	--	8.0	7.5	--	7.0	10.0	--	10.0
9	10.0	--	10.0	8.5	--	8.5	8.0	--	8.0	8.0	--	8.0	7.5	--	7.5	10.0	--	10.0
10	10.0	--	10.0	8.5	--	8.5	8.0	--	7.5	8.0	--	8.0	7.5	--	7.5	10.0	--	9.5
11	10.0	--	10.0	8.5	--	8.5	8.0	--	7.5	8.0	--	8.0	8.0	--	7.5	9.5	--	9.5
12	10.0	--	10.0	8.5	--	7.0	8.0	--	7.5	8.0	--	7.5	8.5	--	8.5	10.0	--	9.5
13	10.0	--	10.0	7.0	--	7.0	7.5	--	7.5	7.5	--	7.5	9.0	--	8.5	10.0	--	10.0
14	10.0	--	8.5	7.0	--	6.5	7.5	--	7.5	7.5	--	7.5	8.5	--	8.5	10.0	--	9.5
15	8.5	--	8.5	6.5	--	6.5	7.5	--	7.5	8.0	--	7.0	8.5	--	7.5	10.0	--	9.0
16	8.5	--	8.5	6.5	--	6.5	7.5	--	7.5	7.0	--	7.0	8.0	--	8.0	9.0	--	9.0
17	9.0	--	8.5	7.0	--	6.5	7.5	--	7.0	7.0	--	7.0	8.0	--	8.0	9.0	--	9.0
18	9.0	--	9.0	7.0	--	7.0	7.0	--	7.0	7.0	--	7.0	8.5	--	8.0	9.5	--	9.0
19	9.5	--	9.0	7.0	--	7.0	7.0	--	7.0	7.0	--	7.0	9.0	--	8.5	10.0	--	9.5
20	9.5	--	9.5	7.0	--	7.0	7.0	--	7.0	7.5	--	7.0	8.5	--	8.0	10.5	--	9.5
21	9.5	--	9.5	7.5	--	7.0	7.0	--	7.0	7.5	--	7.5	8.0	--	8.0	10.5	--	9.0
22	9.5	--	9.0	7.5	--	7.5	7.0	--	6.0	7.5	--	7.5	8.5	--	8.0	10.0	--	9.5
23	9.0	--	8.5	7.5	--	7.0	6.0	--	5.0	8.0	--	7.5	8.5	--	8.5	9.5	--	9.5
24	8.5	--	8.5	7.0	--	7.0	5.0	--	5.0	8.0	--	8.0	9.0	--	8.5	9.5	--	9.0
25	8.5	--	8.5	7.0	--	7.0	5.0	--	5.0	8.0	--	8.0	9.5	--	9.0	9.0	--	8.5
26	8.5	--	8.5	7.0	--	7.0	5.5	--	5.0	8.5	--	7.0	9.0	--	8.5	8.5	--	8.5
27	8.5	--	8.5	7.0	--	6.5	6.0	--	5.5	7.0	--	6.0	9.5	--	9.0	9.0	--	8.0
28	9.0	--	8.5	6.5	--	6.0	6.0	--	6.0	7.0	--	6.5	10.0	--	9.5	8.5	--	8.0
29	9.5	--	9.0	6.5	--	6.0	6.0	--	6.0	6.5	--	5.0	--	--	--	10.0	--	8.0
30	9.0	--	9.0	6.0	--	6.0	6.0	--	6.0	5.0	--	4.5	--	--	--	10.0	--	9.0
31	9.0	--	9.0	--	--	--	6.0	--	5.5	4.5	--	4.0	--	--	--	9.0	--	8.0
MONTH	11.0	--	8.5	9.0	--	6.0	8.0	--	5.0	8.5	--	4.0	10.0	--	4.5	10.5	--	8.0
DAY	APR		MIN	MAY		MIN	JUN		MIN	JUL		MIN	AUG		MIN	SEP		MIN
	MAX	DAILY		MAX	DAILY		MAX	DAILY		MAX	DAILY		MAX	DAILY		MAX	DAILY	
1	8.5	--	8.0	10.0	--	8.0	15.0	--	12.5	--	--	--	16.0	--	14.0	13.0	--	12.5
2	8.0	--	8.0	9.0	--	8.5	15.0	--	12.0	--	--	--	17.0	--	14.0	13.5	--	13.0
3	8.0	--	8.0	9.0	--	8.0	15.0	--	12.0	--	13.5	--	17.0	--	14.0	14.0	--	13.0
4	8.5	--	8.0	8.0	--	8.0	16.0	--	12.5	--	--	--	17.0	--	14.5	14.0	--	13.0
5	8.0	--	7.0	8.5	--	8.0	16.5	--	13.0	--	--	--	16.5	--	14.5	14.5	--	13.5
6	8.0	--	7.0	10.5	--	8.0	16.0	--	13.0	--	--	--	16.0	--	14.5	14.0	--	13.0
7	8.0	--	8.0	10.0	--	8.5	16.0	--	12.5	--	10.5	--	15.0	--	13.5	14.0	--	13.0
8	8.0	--	8.0	11.0	--	9.0	16.0	--	12.5	--	10.5	--	16.0	--	14.0	14.0	--	13.0
9	9.0	--	8.0	10.5	--	9.5	16.5	--	12.5	--	12.0	--	16.0	--	14.0	14.0	--	14.0
10	9.0	--	8.0	10.0	--	9.5	16.5	--	13.0	--	--	--	16.5	--	14.5	14.5	--	14.0
11	9.5	--	8.0	11.0	--	9.5	16.0	--	13.0	--	--	--	17.0	--	15.0	14.5	--	14.0
12	9.5	--	8.0	12.0	--	9.0	16.5	--	13.0	--	--	--	16.5	--	15.5	14.5	--	14.0
13	9.0	--	8.5	13.0	--	10.0	17.0	--	13.5	--	--	--	16.5	--	15.0	14.5	--	14.0
14	8.5	--	7.5	11.5	--	10.0	17.5	--	14.0	--	12.5	--	16.0	--	14.5	14.5	--	14.5
15	7.5	--	6.5	11.0	--	10.0	17.5	--	14.0	--	--	--	16.0	--	14.5	14.5	--	14.0
16	7.5	--	6.5	12.0	--	9.5	16.0	--	13.0	--	--	--	15.5	--	14.5	14.0	--	13.0
17	7.5	--	7.0	13.0	--	10.0	14.5	--	12.0	--	--	--	15.5	--	14.5	13.5	--	13.0
18	8.5	--	8.5	13.5	--	10.5	14.5	--	11.5	--	14.0	--	15.0	--	14.5	13.5	--	13.0
19	8.5	--	8.5	12.0	--	10.0	15.0	--	12.0	--	--	--	15.0	--	14.5	13.5	--	13.0
20	9.5	--	8.5	11.0	--	9.0	16.0	--	12.0	--	--	--	15.5	--	14.5	13.5	--	13.0
21	9.5	--	8.5	11.5	--	9.0	16.0	--	12.0	--	--	--	15.5	--	14.5	13.5	--	13.0
22	8.5	--	8.5	12.5	--	10.0	15.0	--	12.0	--	13.0	--	15.5	--	14.5	13.5	--	13.5
23	8.5	--	8.5	13.5	--	10.5	13.0	--	12.0	--	--	--	15.5	--	14.5	13.5	--	12.5
24	8.5	--	8.5	13.5	--	10.5	12.0	--	11.0	--	15.5	--	16.0	--	15.5	12.5	--	12.5
25	8.5	--	8.0	13.5	--	10.5	13.0	--	10.5	17.0	--	14.5	16.0	--	15.5	12.5	--	12.5
26	8.0	--	7.5	14.0	--	11.0	14.0	--	11.0	17.5	--	15.0	16.0	--	15.0	12.5	--	12.0
27	8.5	--	7.5	14.0	--	11.0	14.0	--	11.0	18.0	--	15.5	16.0	--	15.0	12.5	--	12.0
28	8.5	--	7.5	15.0	--	11.5	15.0	--	11.5	17.5	--	15.5	15.0	--	14.0	12.0	--	11.5
29	9.0	--	7.5	15.5	--	12.0	14.5	--	11.0	17.0	--	15.0	14.0	--	13.0	11.5	--	11.5
30	9.0	--	8.0	16.0	--	12.5	--	--	--	15.5	--	14.0	13.5	--	13.0	11.5	--	11.0
31	--	--	--	15.5	--	12.5	--	--	--	15.5	--	14.0	13.0	--	13.0	--	--	--
MONTH	9.5	--	6.5	16.0	--	8.0	17.5	--	10.5	--	--	--	17.0	--	13.0	14.5	--	11.0

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	.80	3	.01	1.5	2	.01	2.3	1	.01
2	.80	3	.01	1.3	3	.01	10	3	.09
3	.80	3	.01	1.1	4	.01	22	6	.63
4	.80	3	.01	1.0	5	.01	31	3	.25
5	.80	3	.01	.91	4	.01	16	2	.09
6	.80	3	.01	.88	2	0	11	1	.03
7	.80	3	.01	1.3	2	.01	8.2	1	.02
8	.68	2	0	2.3	2	.01	6.8	1	.02
9	.67	2	0	2.0	2	.01	5.6	2	.03
10	.67	2	0	1.7	2	.01	5.0	2	.03
11	.67	1	0	1.5	2	.01	4.8	2	.03
12	.67	1	0	1.4	6	.02	7.3	3	.06
13	.67	2	0	1.4	6	.02	8.7	2	.05
14	.67	9	.02	1.2	5	.02	11	4	.15
15	.67	5	.01	1.2	4	.01	13	3	.11
16	.67	2	0	1.2	3	.01	11	3	.09
17	.67	2	0	1.5	2	.01	9.3	4	.10
18	.67	2	0	2.8	2	.02	8.0	2	.04
19	.67	2	0	2.3	1	.01	7.0	1	.02
20	.67	2	0	2.0	1	.01	6.3	1	.02
21	.67	2	0	9.7	6	.27	7.0	2	.04
22	.67	2	0	8.7	2	.05	6.6	2	.04
23	.67	2	0	4.6	1	.01	5.9	2	.03
24	.67	3	.01	3.8	2	.02	5.4	1	.01
25	.67	4	.01	6.1	2	.03	5.2	1	.01
26	.67	3	.01	5.2	2	.03	5.0	1	.01
27	1.0	2	.01	4.2	2	.02	58	7	1.4
28	5.0	2	.03	3.5	1	.01	54	3	.44
29	4.0	3	.03	2.9	1	.01	35	2	.19
30	2.3	4	.02	2.6	1	.01	27	1	.07
31	1.8	3	.01	---	---	---	22	1	.06
MONTH	32.44	---	.23	81.79	---	.69	435.4	---	4.17

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	18	1	.05	22	4	.24	35	3	.28
2	15	1	.04	40	2	.22	44	2	.24
3	13	1	.04	34	3	.28	42	1	.11
4	20	3	.16	55	5	.74	39	1	.11
5	30	5	.62	51	3	.41	37	1	.10
6	111	25	7.9	71	6	1.1	34	1	.09
7	107	9	3.3	155	13	5.4	42	3	.34
8	177	12	6.6	138	11	4.2	110	8	2.4
9	99	4	1.1	189	26	13	95	3	.77
10	68	3	.55	172	16	7.4	83	3	.67
11	52	2	.28	128	8	2.8	72	3	.58
12	42	2	.23	357	99	158	62	3	.50
13	37	2	.20	544	108	185	56	2	.30
14	33	2	.18	186	24	12	52	1	.14
15	29	1	.08	124	9	3.0	53	2	.29
16	26	1	.07	92	7	1.7	55	2	.30
17	24	1	.06	73	4	.79	163	40	36
18	22	1	.06	63	4	.68	634	187	351
19	21	1	.06	144	16	7.6	290	38	30
20	19	1	.05	152	11	4.5	161	14	6.1
21	17	1	.05	107	6	1.7	157	12	5.5
22	16	1	.04	80	3	.65	161	11	4.8
23	15	1	.04	63	3	.51	135	7	2.6
24	14	1	.04	54	3	.44	184	21	18
25	14	1	.04	46	3	.37	341	41	42
26	13	1	.04	42	4	.45	172	14	6.5
27	13	1	.04	40	3	.32	121	8	2.6
28	12	1	.03	37	2	.20	87	5	1.2
29	12	1	.03	---	---	---	68	4	.73
30	11	1	.03	---	---	---	58	4	.63
31	13	1	.04	---	---	---	51	3	.41
MONTH	1113	---	22.05	3259	---	413.70	3694	---	515.29

## EEL RIVER BASIN

11475560 ELDER CREEK NEAR BRANSCOMB, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	44	2	.24	31	1	.08	7.0	1	.02
2	41	2	.22	28	1	.08	6.7	1	.02
3	38	2	.21	28	1	.08	6.5	1	.02
4	36	2	.19	25	1	.07	6.5	1	.02
5	34	2	.18	24	1	.06	6.2	1	.02
6	33	1	.09	22	1	.06	5.9	2	.03
7	32	1	.09	21	1	.06	5.7	1	.02
8	31	1	.08	19	1	.05	5.5	1	.01
9	29	3	.23	18	1	.05	5.5	1	.01
10	29	2	.16	18	1	.05	5.2	1	.01
11	29	1	.08	17	1	.05	5.2	1	.01
12	28	1	.08	16	1	.04	5.0	2	.03
13	27	1	.07	15	4	.16	4.8	1	.01
14	26	1	.07	14	1	.04	4.4	1	.01
15	26	1	.07	14	1	.04	4.4	1	.01
16	25	2	.14	13	1	.04	4.2	5	.06
17	23	1	.06	13	1	.04	4.2	1	.01
18	22	1	.06	12	1	.03	4.2	1	.01
19	21	1	.06	11	1	.03	4.2	1	.01
20	20	1	.05	11	1	.03	4.0	1	.01
21	19	2	.10	11	1	.03	4.0	1	.01
22	18	1	.05	10	1	.03	3.8	1	.01
23	18	1	.05	9.9	1	.03	3.8	1	.01
24	54	9	1.7	9.3	2	.05	3.8	1	.01
25	62	3	.50	9.0	2	.05	3.8	1	.01
26	54	2	.29	8.4	3	.07	3.8	1	.01
27	47	2	.25	7.8	2	.04	3.7	1	.01
28	42	2	.23	7.5	2	.04	3.5	1	.01
29	37	2	.20	7.2	2	.04	3.3	1	.01
30	34	1	.09	7.2	1	.02	3.3	1	.01
31	---	---	---	7.2	1	.02	---	---	---
MONTH	979	---	5.89	464.5	---	1.56	142.1	---	.45
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.3	1	.01	1.6	1	0	1.1	1	0
2	3.3	1	.01	1.5	1	0	1.1	1	0
3	3.2	1	.01	1.5	1	0	1.1	1	0
4	3.2	1	.01	1.4	1	0	1.1	1	0
5	3.0	1	.01	1.4	1	0	1.1	1	0
6	3.0	1	.01	1.4	1	0	1.1	1	0
7	2.8	1	.01	1.4	1	0	1.0	1	0
8	2.8	1	.01	1.3	1	0	1.0	1	0
9	2.7	1	.01	1.3	1	0	1.0	1	0
10	2.6	1	.01	1.3	1	0	1.0	1	0
11	2.6	1	.01	1.3	1	0	1.0	1	0
12	2.4	1	.01	1.2	1	0	1.0	1	0
13	2.3	1	.01	1.2	1	0	1.0	1	0
14	2.3	1	.01	1.2	1	0	1.0	1	0
15	2.3	1	.01	1.2	1	0	1.0	1	0
16	2.3	1	.01	1.2	1	0	1.0	1	0
17	2.3	1	.01	1.2	1	0	1.0	1	0
18	2.3	1	.01	1.3	2	.01	.96	1	0
19	2.3	1	.01	1.3	1	0	.88	1	0
20	2.3	1	.01	1.3	1	0	.88	1	0
21	2.1	1	.01	1.3	1	0	.88	1	0
22	2.1	2	.01	1.3	1	0	.88	1	0
23	2.0	1	.01	1.2	1	0	.88	1	0
24	1.9	1	.01	1.2	1	0	.88	1	0
25	1.8	1	0	1.2	1	0	.88	1	0
26	1.8	1	0	1.1	1	0	.88	1	0
27	1.8	1	0	1.1	1	0	.88	1	0
28	1.6	1	0	1.1	1	0	.88	1	0
29	1.6	1	0	1.1	1	0	.88	1	0
30	1.6	1	0	1.1	1	0	.88	1	0
31	1.6	1	0	1.1	1	0	---	---	---
MONTH	73.2	---	.24	39.3	---	.01	29.12	---	0
YEAR	10342.85		964.28						

## 11475800 SOUTH FORK EEL RIVER AT LEGGETT, CALIF.

LOCATION.--Lat 39°52'29", long 123°43'10", in NE¼SE¼ sec.3, T.23 N., R.17 W., Mendocino County, on right bank near Standish-Hickey State Park, 0.2 mi (0.3 km) upstream from Rock Creek, and 0.7 mi (1.1 km) northwest of Leggett.

DRAINAGE AREA.--248 mi<sup>2</sup> (642 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 693.32 ft (211.324 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 1,023 ft<sup>3</sup>/s (28.97 m<sup>3</sup>/s), 741,200 acre-ft/yr (914 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 36,000 ft<sup>3</sup>/s (1,020 m<sup>3</sup>/s) Mar. 18 (gage height, 18.30 ft or 5.578 m), from rating curve extended above 6,100 ft<sup>3</sup>/s (173 m<sup>3</sup>/s) as explained below; minimum daily, 19 ft<sup>3</sup>/s (0.54 m<sup>3</sup>/s) Oct. 1-3, 5-9.

Period of record: Maximum discharge, 72,700 ft<sup>3</sup>/s (2,060 m<sup>3</sup>/s) Jan. 4, 1966 (gage height, 25.4 ft or 7.74 m, from floodmarks), from rating curve extended above 21,000 ft<sup>3</sup>/s (595 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 26.13 ft (7.964 m); minimum daily, 15 ft<sup>3</sup>/s (0.42 m<sup>3</sup>/s) Oct. 15, 1966, Sept. 30 to Oct. 17, 1970.

Flood of Dec. 22, 1964, reached a stage of 26.13 ft (7.964 m), from floodmarks (discharge, 78,700 ft<sup>3</sup>/s or 2,230 m<sup>3</sup>/s by slope-area measurement of maximum flow).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	57	72	388	977	880	1170	650	164	78	40	31
2	19	50	454	320	2520	1520	910	586	161	78	40	31
3	19	42	1020	276	2120	1150	988	599	161	76	40	30
4	20	39	1740	604	3640	949	1030	550	158	76	39	30
5	19	35	628	1400	3370	865	1100	508	148	74	37	27
6	19	34	395	7420	3990	807	1140	469	142	70	37	26
7	19	50	291	4040	6760	1670	988	436	142	70	36	25
8	19	87	229	7350	5680	3930	926	415	135	68	36	25
9	19	70	191	3270	8770	2610	865	394	129	66	34	25
10	20	57	163	2050	7810	2260	807	384	123	66	34	25
11	20	50	175	1410	4680	1790	751	384	118	60	32	25
12	20	45	250	1070	14200	1440	703	354	115	58	31	25
13	20	41	490	878	19200	1230	656	330	112	56	30	25
14	20	40	628	759	7590	1060	644	316	109	56	30	26
15	20	38	667	667	4470	1070	605	307	106	54	30	26
16	20	36	466	585	3090	1860	580	298	104	58	30	25
17	20	39	366	521	2360	8220	586	284	98	60	31	26
18	20	85	295	471	1970	28300	544	271	96	58	32	26
19	20	98	248	429	9240	14500	514	255	96	56	34	25
20	20	67	215	395	7630	6110	480	246	96	54	34	25
21	20	193	251	366	4190	8020	452	238	93	54	35	25
22	20	438	287	343	2850	9170	430	234	91	53	34	25
23	20	187	226	317	2140	6020	452	226	89	50	32	24
24	20	131	198	300	1740	8840	1750	218	96	47	31	24
25	21	233	181	283	1450	17700	1760	211	98	47	30	24
26	22	189	169	295	1210	6490	1310	203	93	46	30	24
27	27	135	2650	267	1050	3790	1050	196	89	44	28	22
28	246	108	2190	251	926	2580	903	189	84	43	31	22
29	202	91	970	240	---	1940	800	182	82	42	31	21
30	81	80	666	226	---	1600	716	178	80	42	31	21
31	64	---	484	312	---	1380	---	168	---	40	31	---
TOTAL	1135	2845	17255	37503	135623	149751	25610	10279	3408	1800	1031	761
MEAN	36.6	94.8	557	1210	4844	4831	854	332	114	58.1	33.3	25.4
MAX	246	438	2650	7420	19200	28300	1760	650	164	78	40	31
MIN	19	34	72	226	926	807	430	168	80	40	28	21
AC-FT	2250	5640	34230	74390	269000	297000	50800	20390	6760	3570	2040	1510
CAL YR 1974	TOTAL	441529	MEAN	1210	MAX	45400	MIN	19	AC-FT	875800		
WTR YR 1975	TOTAL	387001	MEAN	1060	MAX	28300	MIN	19	AC-FT	767600		

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
1-6	1230	11.17	10,800	3-18	0730	18.30	36,000
2-10	0215	10.96	10,300	3-21	2015	13.01	15,900
2-13	0515	16.26	27,300	3-25	0215	16.50	28,300
2-19	1745	13.86	18,600				

11475800 SOUTH FORK EEL RIVER AT LEGGETT, CALIF.--Continued

PERIOD OF RECORD.--Water temperatures: October 1965 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 24.0°C July 26-28, Aug. 3; minimum, 4.5°C Dec. 25, 26, Jan. 3.

Period of record:

Water temperatures: Maximum (1965-69, 1970 to current year), 26.5°C July 27, 1973; minimum (1965-70, 1971 to current year), 2.5°C Dec. 11-14, 1972.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.0	9.0	14.0	12.0	20.5	18.5	20.5	18.5	23.5	21.0	21.0	19.5
2	9.0	8.5	14.5	12.5	20.5	18.5	20.5	18.5	23.5	21.5	21.0	19.5
3	9.0	9.0	14.0	12.5	20.0	18.0	21.0	19.0	24.0	21.0	21.5	19.5
4	9.5	8.5	12.5	11.5	20.5	18.5	20.5	19.5	23.5	21.5	22.0	19.5
5	9.5	8.5	13.0	11.0	20.5	19.0	21.0	19.0	23.0	21.5	22.0	20.0
6	10.0	8.5	13.5	11.5	21.0	19.0	21.5	19.5	23.0	21.0	21.5	19.5
7	9.5	9.0	14.5	12.0	21.0	19.5	21.5	19.5	22.5	21.0	21.5	19.5
8	10.0	9.0	15.0	13.0	21.0	19.0	22.0	20.0	22.5	21.0	21.5	19.5
9	11.0	9.0	15.0	13.5	21.5	19.0	22.0	20.0	23.0	21.0	20.5	20.0
10	11.5	9.5	14.5	13.5	22.0	19.5	22.5	20.5	22.5	21.0	20.0	19.0
11	12.0	10.0	15.5	13.0	22.0	20.0	22.5	20.5	23.0	21.0	20.5	19.0
12	13.0	11.0	16.0	13.5	22.0	19.5	22.0	20.5	23.0	21.5	20.5	19.0
13	12.5	11.0	17.0	15.0	22.0	20.0	22.0	20.5	23.0	21.0	20.5	19.0
14	12.5	11.5	16.5	15.0	22.5	21.5	22.0	20.5	23.0	21.0	20.5	19.0
15	11.5	10.0	16.0	14.5	22.5	20.5	22.0	21.5	22.5	20.5	20.5	19.0
16	11.5	10.0	16.5	14.0	22.0	20.0	22.5	20.5	22.5	20.5	20.5	19.0
17	12.0	9.5	17.0	15.0	21.0	19.0	22.5	20.5	22.0	21.0	20.5	18.5
18	12.5	10.5	17.5	15.5	20.5	18.5	22.5	20.5	22.0	21.5	20.5	18.5
19	13.5	11.5	17.5	15.5	21.0	19.0	22.0	20.5	22.5	21.0	20.0	18.5
20	14.0	12.0	16.5	14.5	21.0	19.0	23.0	21.5	22.5	20.0	20.0	18.0
21	14.0	12.0	16.5	14.5	21.0	19.0	22.5	20.5	22.0	20.0	20.0	18.0
22	13.0	12.0	17.0	15.0	21.0	19.0	23.0	21.5	22.5	20.5	19.5	18.0
23	12.5	12.0	17.5	15.5	19.5	19.0	23.5	21.5	22.5	20.5	19.5	18.0
24	12.5	11.5	17.5	15.5	19.0	18.5	23.5	21.5	22.5	21.0	19.5	18.0
25	11.5	11.0	17.5	15.5	20.0	18.0	23.5	21.5	22.5	21.0	20.0	18.0
26	11.5	10.5	18.0	16.5	20.0	18.0	24.0	22.0	22.5	21.0	20.0	18.0
27	13.0	11.0	18.5	16.5	19.5	18.0	24.0	22.0	21.5	21.0	19.0	17.5
28	13.5	11.5	19.0	17.0	20.0	18.0	24.0	22.0	22.0	20.5	18.5	17.0
29	14.0	12.0	19.5	17.5	20.0	18.0	23.0	22.0	22.0	20.0	19.0	17.0
30	14.5	12.5	20.5	18.0	20.0	18.5	23.0	21.5	21.5	20.0	18.5	17.0
31	---	---	21.0	19.0	---	---	23.5	21.0	21.0	20.0	---	---
MONTH	14.5	8.5	21.0	11.0	22.5	18.0	24.0	18.5	24.0	20.0	22.0	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, on right bank at Sylvandale Campgrounds on U.S. Highway 101, 0.5 mi (0.8 km) upstream from Rocky Glen Creek, 4.3 mi (6.9 km) southeast of Miranda, and 20 mi (32 km) upstream from mouth.

DRAINAGE AREA.--537 mi<sup>2</sup> (1,391 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 217.57 ft (66.315 m) above mean sea level. Prior to Nov. 2, 1940, nonrecording gage at site 200 ft (61 m) upstream at datum 0.8 ft (0.24 m) higher. Nov. 2, 1940, to Oct. 31, 1944, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--36 years, 1,968 ft<sup>3</sup>/s (55.73 m<sup>3</sup>/s), 1,426,000 acre-ft/yr (1.76 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 93,600 ft<sup>3</sup>/s (2,650 m<sup>3</sup>/s) Mar. 18 (gage height, 29.84 ft or 9.095 m); minimum daily, 40 ft<sup>3</sup>/s (1.13 m<sup>3</sup>/s) Oct. 10.

Period of record: Maximum discharge, 199,000 ft<sup>3</sup>/s (5,640 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 46.0 ft or 14.02 m, from floodmarks), from rating curve extended above 53,000 ft<sup>3</sup>/s (1,500 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 42.7 ft (13.01 m); minimum observed, 9 ft<sup>3</sup>/s (0.25 m<sup>3</sup>/s) Oct. 17, 1944.

REMARKS.--Records good. Occasional storage and release for recreation use during summer months at Benbow Dam. No diversion above station.

REVISIONS.--WSP 1395: Drainage area. WRD Calif. 1971: 1955.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	146	152	849	2710	1750	2780	1230	329	164	63	58
2	41	126	558	726	6960	3690	2330	1110	327	158	60	58
3	41	111	2040	643	6720	2880	2160	1130	316	158	64	58
4	41	97	4430	888	8850	2630	2330	1080	308	152	67	57
5	41	84	1500	1470	7460	2000	2290	969	301	155	68	54
6	41	78	812	11800	8400	1700	2330	891	291	148	65	54
7	44	90	590	7930	11300	3830	2030	831	283	147	63	56
8	46	173	474	13200	11200	8620	1870	787	276	138	63	66
9	42	177	391	7490	18800	7000	1690	743	270	138	64	66
10	40	154	335	4690	19100	5500	1540	732	264	131	64	63
11	44	122	326	3040	10600	4500	1410	751	257	128	62	146
12	45	106	433	2170	29600	3500	1300	686	257	123	61	76
13	47	92	785	1710	45100	2800	1200	645	250	119	60	55
14	47	83	1060	1410	18700	2000	1160	613	240	114	59	54
15	46	76	1340	1200	11500	2100	1110	596	235	112	58	53
16	45	71	902	1050	8540	5450	1020	573	225	112	58	52
17	46	71	712	929	6550	14800	993	551	220	112	59	52
18	45	87	584	836	5410	77200	940	527	210	112	61	50
19	44	145	489	769	14400	36400	891	502	202	111	64	49
20	46	165	431	708	17700	13700	837	455	198	109	65	51
21	45	181	448	664	9810	15400	794	331	192	108	64	51
22	43	621	536	621	7200	20100	758	448	185	88	64	51
23	43	479	468	588	5700	12600	759	441	180	87	64	50
24	44	307	407	560	4580	13600	2360	427	190	90	62	50
25	44	393	370	532	3830	39400	4680	412	205	86	60	51
26	44	428	349	555	3110	16700	2900	397	206	84	60	50
27	52	320	4600	531	2040	9960	2160	384	178	82	58	50
28	107	245	6170	493	1830	6830	1790	372	182	82	58	49
29	399	202	2490	470	---	5120	1550	362	175	78	54	49
30	289	173	1420	447	---	4100	1370	348	168	75	54	49
31	194	---	1060	780	---	3360	---	338	---	74	57	---
TOTAL	2177	5603	36662	69749	307700	349220	51332	19662	7120	3575	1903	1728
MEAN	70.2	187	1183	2250	10990	11270	1711	634	237	115	61.4	57.6
MAX	399	621	6170	13200	45100	77200	4680	1230	329	164	68	146
MIN	40	71	152	447	1830	1700	758	331	168	74	54	49
AC-FT	4320	11110	72720	138300	610300	692700	101800	39000	14120	7090	3770	3430
CAL YR 1974	TOTAL	935823	MEAN	2564	MAX	110000	MIN	34	AC-FT	1856000		
WTR YR 1975	TOTAL	856431	MEAN	2346	MAX	77200	MIN	40	AC-FT	1699000		

Peak discharge (base, 15,000 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
1-6	1900	13.21	16,200	3-18	0930	29.84	93,600
2-10	0245	15.40	23,600	3-22	0030	16.77	26,900
2-13	0230	23.04	57,100	3-25	0700	22.82	56,000
2-19	2300	17.03	29,900				

## EEL RIVER BASIN

11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to current year.

Water temperatures: November 1960 to current year.

Sediment records: Water years 1955-62 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 26.5°C July 26; minimum, 3.5°C Jan. 31.

Period of record:

Water temperatures (1960-64, 1965 to current year): Maximum (1960-61, 1963-64, 1965-68, 1970 to current year), 34.0°C July 25, 1964; minimum (1960-64, 1965-70, 1972 to current year), 1.0°C Jan. 20, 21, 1963.

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT.							
03...	0700	41	283	7.8	15.0	1	8.3
NOV.							
13...	1520	90	284	8.1	13.5	1	11.0
DEC.							
03...	1505	1560	177	8.4	11.0	230	10.0
JAN.							
07...	1510	6260	90	7.6	10.0	250	11.3
FEB.							
19...	1725	24500	90	7.8	10.0	1170	11.7
MAR.							
11...	1350	5830	117	7.6	10.5	70	10.4
APR.							
15...	1430	1100	142	8.3	10.5	6	10.2
MAY							
13...	1350	645	157	8.0	21.0	1	9.5
JUNE							
10...	1520	262	207	8.2	25.0	1	9.6
JULY							
08...	1400	138	224	8.2	24.0	1	9.6
AUG.							
12...	1300	61	214	8.4	25.0	1	11.7
SEP.							
03...	1535	58	238	8.2	23.5	1	10.2

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
FEB.									
19...	1725	24500	--	--	3.8	48	0	39	.7
APR.									
15...	1430	1100	680	10	5.2	71	0	58	2.8

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (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)	TEMPER- ATURE (DEG C)
FEB.									
19...	--	--	--	41	2	.3	90	7.8	10.0
APR.									
15...	.02	.10	.03	59	1	.3	142	8.3	10.5

DATE	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB.								
19...	1170	11.7	1.2	100	--	--	--	--
APR.								
15...	6	10.2	.6	0	0	0	0	0



11476500 SOUTH FORK EEL RIVER NEAR MIRANDA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	18.0	13.5	12.0	9.5	8.5	6.0	5.0	6.0	4.0	11.5	10.5
2	20.0	17.5	12.0	11.5	10.5	9.5	6.0	5.0	5.5	4.5	10.5	10.0
3	19.0	16.5	12.5	11.0	10.5	10.0	6.0	5.0	7.0	5.0	11.0	9.5
4	19.0	16.0	12.0	11.0	10.0	10.0	7.0	6.0	7.0	6.0	11.0	9.5
5	18.0	15.0	12.5	11.0	10.0	9.5	7.5	7.0	8.0	7.0	11.0	9.5
6	18.0	15.0	13.0	11.0	10.5	9.5	9.5	7.5	8.5	7.5	11.0	9.5
7	18.5	15.0	13.0	12.0	11.0	10.5	10.0	9.5	9.0	8.5	10.5	10.0
8	17.0	16.0	12.5	11.0	10.5	10.0	10.0	9.0	10.0	9.0	10.0	9.5
9	19.0	16.0	11.0	10.0	10.0	9.5	9.0	8.0	10.0	9.0	10.5	9.0
10	19.0	16.5	12.5	11.0	10.5	10.0	9.0	8.0	9.5	9.0	10.5	9.0
11	19.0	16.0	12.5	11.5	11.0	10.5	8.5	8.0	10.0	9.5	10.5	8.0
12	19.0	16.0	13.0	12.0	11.5	10.5	8.5	7.5	10.0	9.5	10.0	8.0
13	19.0	16.0	13.5	12.0	10.5	10.0	8.5	8.0	10.0	9.5	9.0	7.5
14	19.0	16.0	13.0	12.0	10.5	10.0	8.5	7.5	9.5	8.5	9.0	8.0
15	19.0	16.0	12.5	12.0	11.0	10.5	8.0	7.5	8.5	8.0	10.0	9.0
16	18.5	15.5	12.5	12.0	11.5	11.0	8.0	7.0	8.5	7.5	10.5	9.5
17	18.0	15.5	12.5	12.5	11.0	10.0	8.5	7.5	8.5	7.0	9.5	9.0
18	18.0	15.0	13.5	12.0	10.0	9.0	8.5	8.0	9.0	7.5	9.0	8.0
19	17.5	15.0	13.0	12.5	10.0	9.0	8.5	8.0	9.5	9.0	9.0	7.5
20	16.5	14.5	12.5	12.0	10.5	10.0	9.0	8.5	9.0	8.0	9.5	9.0
21	16.0	13.0	12.5	11.5	10.5	10.0	9.0	8.5	8.5	7.5	10.0	9.5
22	16.0	13.0	11.5	11.0	10.0	8.0	9.5	8.5	9.0	7.0	10.0	9.5
23	15.5	13.0	11.0	10.0	8.0	6.5	9.5	8.5	9.5	7.5	9.5	8.5
24	15.5	13.0	11.0	10.0	7.0	6.0	9.5	8.5	9.5	7.5	---	---
25	15.0	13.0	11.0	10.5	6.5	5.5	10.5	9.5	10.0	8.5	---	---
26	15.5	13.0	10.5	10.0	7.5	6.0	10.0	8.0	9.5	8.5	---	---
27	14.5	14.0	10.5	10.0	9.0	7.5	8.0	6.0	10.5	10.0	---	---
28	14.0	13.0	10.5	9.5	8.0	6.5	6.5	5.5	11.5	10.5	---	---
29	13.5	13.0	10.0	8.5	6.5	5.5	6.5	5.5	---	---	---	---
30	13.0	12.5	9.5	9.0	7.0	6.0	6.0	5.0	---	---	---	---
31	13.5	12.5	---	---	6.5	5.5	6.0	3.5	---	---	---	---
MONTH	21.0	12.5	13.5	8.5	11.5	5.5	10.5	3.5	11.5	4.0	---	---
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	14.5	12.0	22.0	20.0	21.5	18.0	24.5	20.0	21.5	18.0
2	---	---	15.0	12.5	21.5	19.0	21.5	17.5	25.0	20.5	21.5	17.5
3	10.5	10.0	14.5	12.5	21.5	18.5	23.0	18.0	24.5	19.5	22.0	18.0
4	11.0	9.0	13.0	11.0	22.0	18.0	22.5	19.0	23.5	19.5	23.0	20.0
5	10.5	9.0	13.5	10.5	22.5	19.5	23.5	18.5	23.0	19.5	24.0	20.5
6	11.0	9.0	14.5	11.5	22.0	19.0	25.0	19.5	22.0	19.0	23.5	20.0
7	10.5	9.5	15.5	12.0	21.0	18.0	25.0	20.0	22.0	19.0	21.5	19.0
8	11.0	9.0	16.5	13.0	21.0	17.0	23.5	20.0	22.5	18.5	22.5	18.5
9	11.5	9.5	16.0	13.5	23.0	18.5	24.0	19.0	22.5	18.5	22.0	20.0
10	11.5	10.0	15.0	13.5	24.5	21.0	24.0	19.5	22.5	18.0	20.5	19.0
11	13.0	10.5	16.5	12.5	24.5	21.5	23.0	19.5	23.5	18.5	22.5	18.5
12	13.5	11.5	18.0	13.5	25.0	20.0	23.0	19.0	24.5	21.0	23.0	19.5
13	13.0	12.0	19.0	15.5	25.5	22.0	23.0	18.5	23.5	20.5	23.0	20.5
14	12.5	11.0	17.5	14.0	26.0	21.0	23.0	18.5	22.5	19.0	22.0	20.0
15	12.5	10.5	16.5	13.5	25.5	22.0	22.0	21.0	22.5	20.0	22.5	20.0
16	13.0	11.0	18.0	14.5	23.0	20.0	23.0	19.0	22.5	19.5	22.5	20.0
17	13.0	10.5	18.5	15.0	22.0	18.0	24.0	19.5	21.0	20.0	22.5	19.0
18	13.0	10.5	19.0	15.5	21.5	18.0	24.5	20.0	22.5	19.5	22.0	19.5
19	14.0	12.0	18.0	15.5	22.0	18.0	25.5	21.0	22.5	19.0	20.0	18.5
20	14.5	11.5	16.5	13.0	23.0	18.5	25.0	21.5	22.5	19.0	20.5	18.0
21	14.5	12.0	17.5	13.5	22.5	18.5	25.0	21.0	22.5	19.0	20.5	17.5
22	14.0	12.0	18.5	13.5	21.5	18.0	25.0	20.5	22.5	19.5	21.0	18.5
23	12.5	11.5	19.0	14.5	22.0	16.0	26.0	21.0	22.5	19.0	20.0	17.5
24	12.5	11.0	19.0	15.0	19.0	16.5	25.5	21.0	24.0	20.5	20.5	17.0
25	11.0	9.5	19.5	15.0	21.0	16.5	26.0	20.5	22.5	19.0	21.0	18.0
26	11.0	9.0	20.0	16.0	21.0	18.0	26.5	22.0	22.5	19.5	21.5	18.5
27	12.5	9.5	20.5	16.5	21.5	17.0	25.5	21.0	21.0	19.5	21.0	18.5
28	12.5	9.5	21.0	16.5	22.0	17.0	25.0	21.0	22.5	19.5	20.5	17.5
29	13.0	10.5	22.0	17.5	22.0	17.5	24.0	20.0	21.5	19.0	20.5	17.5
30	14.0	11.5	23.5	19.5	22.0	17.5	22.5	19.0	21.5	19.0	21.0	18.0
31	---	---	23.5	20.0	---	---	23.0	18.5	21.0	18.0	---	---
MONTH	14.5	9.0	23.5	10.5	26.0	16.0	26.5	17.5	25.0	18.0	24.0	17.0

## EEL RIVER BASIN

11476600 BULL CREEK NEAR WEOTT, CALIF.

LOCATION.--Lat 40°21'05", long 124°00'10", in SW¼NW¼ sec.30, T.1 S., R.2 E., Humboldt County, on left bank 0.2 mi (0.3 km) downstream from Albee Creek, 4.5 mi (7.2 km) northwest of Weott, and 4.6 mi (7.4 km) upstream from mouth.

DRAINAGE AREA.--28.1 mi<sup>2</sup> (72.8 km<sup>2</sup>).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 269.36 ft (82.101 m) above mean sea level. Prior to Dec. 22, 1964, water-stage recorder, and Jan. 14 to Aug. 10, 1965, nonrecording gage at site 150 ft (46 m) downstream at datum 8.90 ft (2.713 m) lower.

AVERAGE DISCHARGE.--15 years, 131 ft<sup>3</sup>/s (3.710 m<sup>3</sup>/s), 94,910 acre-ft/yr (117 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 3,290 ft<sup>3</sup>/s (93.2 m<sup>3</sup>/s) Mar. 18 (gage height, 10.04 ft or 3.060 m), from rating curve extended above 1,100 ft<sup>3</sup>/s (31.2 m<sup>3</sup>/s); minimum daily, 0.67 ft<sup>3</sup>/s (0.019 m<sup>3</sup>/s) Oct. 19.  
Period of record: Maximum discharge, 6,520 ft<sup>3</sup>/s (185 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 20.6 ft or 6.28 m, from floodmarks, site and datum then in use), from rating curve extended above 2,100 ft<sup>3</sup>/s (59.5 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.30 ft<sup>3</sup>/s (0.008 m<sup>3</sup>/s) Sept. 28, 1974.

REMARKS.--Records fair. Minor diversions above station for domestic use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.77	4.6	10	100	112	178	156	67	18	11	7.5	2.5
2	.72	4.0	144	88	335	449	156	64	19	10	7.5	2.5
3	.77	3.7	217	80	280	340	156	82	18	10	6.9	2.1
4	.93	3.4	96	160	380	279	141	66	17	10	6.4	2.1
5	.77	3.2	96	315	420	248	129	59	15	9.6	6.2	1.8
6	.77	3.1	81	850	400	224	115	56	15	9.5	5.7	2.1
7	.77	5.3	70	570	550	326	112	53	16	9.4	6.1	2.1
8	.93	11	57	860	490	488	105	50	15	9.0	5.3	1.8
9	.77	8.4	43	580	600	355	99	48	16	8.8	5.5	1.8
10	.77	6.7	38	450	480	323	91	67	16	8.5	5.4	1.8
11	.77	5.6	48	350	627	297	87	53	17	8.3	4.7	1.8
12	.77	4.8	66	240	1430	246	77	48	15	8.1	4.4	1.8
13	.72	4.0	43	190	1320	221	75	44	14	8.0	5.0	1.5
14	.72	4.0	125	160	1010	199	73	40	12	7.8	3.9	1.8
15	.72	4.0	108	140	641	228	75	37	12	7.6	2.7	1.8
16	.72	3.4	96	125	406	224	58	35	12	9.4	2.4	1.7
17	.72	6.5	90	115	320	1010	53	35	12	8.3	3.4	1.6
18	.72	17	84	99	303	2750	59	35	12	7.4	5.2	1.5
19	.67	8.1	73	90	544	1380	63	35	14	8.4	4.0	1.5
20	.72	7.3	65	83	439	1080	57	34	12	8.2	3.4	1.5
21	.72	37	86	76	340	1500	48	34	12	7.7	3.0	1.5
22	.72	19	99	70	289	1220	45	32	12	8.2	2.5	1.4
23	.77	16	87	67	256	1080	44	30	13	7.7	2.1	1.6
24	.77	14	75	63	219	1700	195	23	15	8.2	2.5	1.7
25	.77	27	64	60	184	1030	180	23	12	8.0	2.1	1.5
26	.77	24	53	70	162	633	135	24	11	7.6	2.1	1.5
27	3.4	21	310	59	154	459	105	23	11	8.3	2.5	1.5
28	24	17	155	53	138	349	90	23	11	8.2	3.4	1.4
29	9.0	12	210	49	---	268	77	22	11	8.1	3.0	1.5
30	6.5	6.5	175	45	---	219	71	21	11	9.0	2.5	1.5
31	10	---	130	70	---	193	---	19	---	8.6	3.0	---
TOTAL	72.64	311.6	3094	6327	12829	19496	2927	1282	416	266.9	130.3	52.2
MEAN	2.34	10.4	99.8	204	458	629	97.6	41.4	13.9	8.61	4.20	1.74
MAX	24	37	310	860	1430	2750	195	82	19	11	7.5	2.5
MIN	.67	3.1	10	45	112	178	44	19	11	7.4	2.1	1.4
AC-FT	144	618	6140	12550	25450	38670	5810	2540	825	529	258	104
CAL YR 1974	TOTAL	56451.21	MEAN	155	MAX	4900	MIN	.30	AC-FT	112000		
WTR YR 1975	TOTAL	47204.64	MEAN	129	MAX	2750	MIN	.67	AC-FT	93630		

Date Time G.H. Peak discharge (base, 1,700 ft<sup>3</sup>/s)  
2-11 1230 8.94 Discharge Date Time G.H. Discharge  
3-18 1600 10.04 2,450 3-24 unknown -- 2,500

NOTE.--No gage-height record Dec. 21 to Feb. 9.

## 11477000 EEL RIVER AT SCOTIA, CALIF.

LOCATION.--Lat 40°29'30", long 124°05'55", in SW¼ sec.5, T.1 N., R.1 E., Humboldt County, near center of span in left pier of bridge on U.S. Highway 101, 0.5 mi (0.8 km) north of Scotia, and 6 mi (10 km) upstream from Van Duzen River.

DRAINAGE AREA.--3,113 mi<sup>2</sup> (8,063 km<sup>2</sup>).

PERIOD OF RECORD.--October 1910 to current year. Monthly discharge only for some periods and yearly estimates for 1915-16, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 35.50 ft (10.820 m) above mean sea level. Prior to Dec. 12, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--65 years, 7,430 ft<sup>3</sup>/s (210.4 m<sup>3</sup>/s), 5,383 acre-ft/yr (6.64 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 231,000 ft<sup>3</sup>/s (6,540 m<sup>3</sup>/s) Mar. 18 (gage height, 40.97 ft or 12.488 m); minimum daily, 88 ft<sup>3</sup>/s (2.49 m<sup>3</sup>/s) Oct. 4.

Period of record: Maximum discharge, 752,000 ft<sup>3</sup>/s (21,300 m<sup>3</sup>/s) Dec. 23, 1964 (gage height, 72.0 ft or 21.95 m, from floodmarks), from rating curve extended above 220,000 ft<sup>3</sup>/s (6,230 m<sup>3</sup>/s) on basis of maximum flow at upstream stations; minimum observed, 10 ft<sup>3</sup>/s (0.28 m<sup>3</sup>/s) Aug. 12-14, 1924.

REMARKS.--Records good those for Nov. 8 to Dec. 3, May 7 to Sept. 10, Sept. 17-30, which are fair. Flow slightly regulated by Lake Pillsbury 138 mi (222 km) upstream (see sta 11470000) and by diversion through Potter Valley powerhouse (see sta 11471000).

REVISIONS (WATER YEARS).--WSP 931: 1938. WSP 1315-B: 1914-15(M), 1917(M), 1927-28(M), 1936(M), 1939(M). WSP 1345: Drainage area. WSP 1715: 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	95	553	605	3970	6280	10800	16700	8370	3450	680	237	182
2	95	419	1280	3250	19400	16600	13900	7800	3300	635	225	180
3	93	345	6500	2750	21100	18600	11800	7510	2830	625	229	179
4	88	325	16100	3070	25500	14500	11900	8040	2650	600	232	178
5	93	312	9640	4770	22700	12300	11700	7360	2550	600	225	175
6	93	286	4800	23800	24800	11200	11000	6620	2500	580	212	170
7	90	272	3100	36400	39700	12800	10200	6200	2400	555	204	170
8	90	350	2180	39500	48800	43000	9610	6300	2130	530	200	172
9	93	390	1690	34800	74800	45300	8760	6400	1980	515	200	167
10	95	410	1400	19800	82500	31200	8130	6300	1850	495	199	158
11	93	380	1400	14000	46900	23600	7800	6400	1680	475	198	154
12	90	345	1570	9970	71800	17600	7450	6050	1510	460	195	213
13	90	310	2940	7950	170000	14700	7190	6350	1370	445	190	276
14	95	280	6270	6620	96300	12700	7310	7300	1330	425	185	177
15	97	265	6850	5700	49300	11400	7420	7400	1230	415	181	144
16	99	252	5210	4980	32000	15600	7020	7000	1160	405	182	135
17	99	248	3910	4320	20200	27100	6720	6300	1080	410	183	131
18	99	282	3070	3800	15500	186000	6470	5950	1040	415	187	130
19	99	319	2410	3480	24500	155000	6380	6200	990	420	190	130
20	95	366	1980	3210	74500	79800	6280	6800	950	430	192	131
21	95	605	1830	2970	41300	59000	6250	5100	910	415	200	133
22	97	938	2200	2740	26400	84800	6340	4300	880	380	238	131
23	99	1640	2150	2520	18400	63400	6380	4000	880	350	248	126
24	99	1380	1830	2330	15200	59100	7950	4050	904	340	252	124
25	99	1330	1560	2170	13300	138000	21600	4200	870	320	228	121
26	99	1410	1380	2160	12000	89500	17300	3900	850	305	218	118
27	106	1480	6150	2090	11000	51300	12900	3700	800	292	200	121
28	173	1140	22600	1960	10600	35900	10200	3650	770	278	190	119
29	312	882	10900	1760	---	26100	9320	3550	735	267	179	115
30	566	710	6790	1630	---	20000	8700	3500	700	268	180	103
31	705	---	5040	2100	---	18300	---	3500	---	250	182	---
TOTAL	4331	18274	145375	260570	1114780	1405200	290680	180100	46279	13580	6361	4563
MFAN	140	607	4690	8405	39810	45330	9689	5810	1543	438	205	152
MAX	705	1640	22600	39500	170000	186000	21600	8370	3450	680	252	276
MIN	88	248	605	1630	6280	10800	6250	3500	700	250	179	103
AC-FT	8590	36150	288400	516800	2211000	2787000	576600	357200	91790	26940	12620	9050
CAL YR 1974	TOTAL	3818530	MEAN	10460	MAX	324000	MIN	88	AC-FT	7574000		
WTR YR 1975	TOTAL	3490043	MEAN	9562	MAX	186000	MIN	88	AC-FT	6922000		

Peak discharge (base, 72,000 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-10	1030	26.78	90,300	3-18	1530	40.97	231,000
2-13	0645	36.57	180,000	3-22	0800	27.66	97,300
2-20	0645	27.05	92,400	3-25	1500	35.98	174,000

## EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to current year.

Water temperatures: October 1957 to current year.

Sediment records: Water years 1955-57 (partial-record station), October 1957 to current year.

Turbidity: Water years 1965-68, 1972-73 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 23.5°C July 24, 26; minimum, 5.0°C Feb. 1.

Sediment concentrations: Maximum daily, 6,860 mg/l Feb. 13; minimum daily, 1 mg/l Sept. 23.

Sediment discharge: Maximum daily, 3,160,000 tons (2,870,000 tonnes) Feb. 13; minimum daily, 0.34 ton (0.31 tonne) Sept. 23.

Period of record:

Water temperatures: Maximum (1960-64, 1965-72, 1974-75), 25.0°C Aug. 21, 22, 1971; minimum (1957-73, 1974-75), 2.0°C Dec. 11, 1972.

Sediment concentrations: Maximum daily, 33,000 mg/l (estimated) Dec. 23, 1964; minimum daily, 1 mg/l on many days in 1958-64, 1966-67, 1970, 1972-75.

Sediment discharge: Maximum daily, 57,000,000 tons (51,700,000 tonnes), estimated, Dec. 23, 1964; minimum daily, 0.22 ton (0.20 tonne) Sept. 7, 1973.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN IN BOTTOM MATERI- AL (N) (MG/KG)
OCT. 09...	1100	95	.01	.00	.01	.06	.12	.18	20
JAN. 09...	1115	34100	.15	.00	.15	.07	.36	.43	--
FEB. 10...	1130	90000	.00	.01	.00	.06	.94	1.0	--

DATE	TIME	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHATE (P04) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	TOTAL PHOS- PHORUS IN BOT- TOM MA- TERIAL (MG/KG)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)	IN- ORGANIC CARBON IN BOT- TOM MA- TERIAL (G/KG)
OCT. 09...		.00	.03	.01	183	351	16.0	3.9	.9
JAN. 09...		2.3	.03	.01	--	112	8.0	--	--
FEB. 10...		.07	.06	.02	--	104	8.0	14	--

## PESTICIDE ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ALDRIN (UG/L)	ALDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDD (UG/L)	DDD IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDE (UG/L)	DDE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DDT (UG/L)	DDT IN BOTTOM MA- TERIAL (UG/KG)	TOTAL DI- AZINON (UG/L)
OCT. 09...	1100	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00
JAN. 09...	1115	.00	--	.0	--	.00	--	.00	--	.00	--	.00

DATE	TIME	TOTAL DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ENDRIN (UG/L)	ENDRIN IN BOTTOM MA- TERIAL (UG/KG)	TOTAL ETHION (UG/L)	TOTAL HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM MA- TERIAL (UG/KG)	TOTAL HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM MA- TERIAL (UG/KG)	TOTAL LINDANE (UG/L)	LINDANE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL MALA- THION (UG/L)
OCT. 09...		.00	.0	.00	.0	.00	.00	.0	.00	.0	.00	.0	.00
JAN. 09...		.00	--	.00	--	.00	.00	--	.00	--	.00	--	.00

DATE	TIME	TOTAL METHYL PARA- THION (UG/L)	TOTAL METHYL TRI- THION (UG/L)	TOTAL PARA- THION (UG/L)	TOTAL PCB (UG/L)	PCB IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TOX- APHENE (UG/L)	TOX- APHENE IN BOTTOM MA- TERIAL (UG/KG)	TOTAL TRI- THION (UG/L)	TOTAL 2,4-D (UG/L)	TOTAL 2,4,5-T (UG/L)	TOTAL SILVEX (UG/L)
OCT. 09...		.00	.00	.00	.0	0	0	0	.00	.00	.00	.00
JAN. 09...		.00	.00	.00	.0	--	0	--	.00	.00	.00	.00

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA-TERIAL (UG/G)	TOTAL CADMIUM (CD) (UG/L)	SUS-PENDED CADMIUM (CD) (UG/L)	DIS-SOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA-TERIAL (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MA-TERIAL (UG/G)
OCT. 09...	1100	1	0	1	5	<10	<10	0	<1	0	15
JAN. 09...	1115	1	1	0	--	10	10	0	--	80	--
FEB. 10...	1130	23	23	0	--	<10	<9	1	--	210	--

DATE	HEXA-VALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM MA-TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM MA-TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)
OCT. 09...	0	<50	<49	1	25	<10	<7	3	17	<100	<96
JAN. 09...	0	<50	<50	0	--	100	97	3	--	<100	<97
FEB. 10...	<10	<50	<49	1	--	160	160	5	--	100	98

DATE	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA-TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA-TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA-TERIAL (UG/G)
OCT. 09...	4	<10	.0	.0	.0	.0	230	210	20	55
JAN. 09...	3	--	.1	.0	.1	--	120	120	0	--
FEB. 10...	2	--	.4	.1	.3	--	210	190	20	--

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

## EEL RIVER BASIN

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	9.0	11.5	11.0	20.5	19.5	20.0	17.5	21.5	19.5	19.0	17.5
2	9.0	9.0	12.5	11.5	19.5	18.5	18.5	17.5	21.5	19.5	19.0	17.5
3	9.0	8.5	12.5	12.0	18.5	18.0	20.0	17.0	21.5	19.5	19.5	17.5
4	9.0	8.0	12.0	11.5	19.0	17.5	20.5	19.0	21.0	20.0	19.5	18.0
5	8.5	8.5	11.5	11.0	20.0	18.5	21.5	18.5	21.0	20.0	20.5	18.5
6	9.0	8.0	12.0	11.0	19.5	18.5	22.5	20.0	21.0	19.5	19.5	19.0
7	9.0	8.5	13.0	11.5	19.0	18.0	21.0	20.5	19.5	19.0	19.0	18.0
8	9.5	8.5	13.5	12.5	20.0	18.0	21.0	20.0	19.5	18.5	19.0	17.5
9	9.5	9.0	14.0	13.0	21.0	18.5	20.5	19.5	20.0	18.5	19.0	18.0
10	9.5	9.0	14.0	13.0	22.0	19.5	20.0	19.0	20.0	19.0	18.5	17.5
11	11.0	9.5	14.0	13.0	21.5	20.5	19.0	18.0	20.5	19.0	19.0	17.5
12	11.5	10.5	14.5	13.0	22.5	20.5	18.0	17.5	20.5	19.0	19.0	18.0
13	11.5	11.5	15.5	14.5	23.0	21.0	20.0	17.5	20.5	19.0	19.0	19.0
14	11.5	10.5	15.5	14.5	22.5	21.5	20.5	19.0	20.0	18.5	19.0	18.0
15	10.5	9.5	15.0	13.5	22.0	21.0	20.5	20.5	20.0	19.0	18.0	17.5
16	10.5	9.5	14.5	13.5	21.5	19.5	20.5	19.0	20.5	19.0	18.0	17.0
17	10.5	9.5	15.0	13.5	19.5	18.5	21.0	19.0	20.5	19.5	19.0	17.0
18	11.0	10.0	16.0	14.5	18.5	17.5	22.5	20.5	20.5	19.5	18.5	17.5
19	11.0	10.5	15.5	14.5	18.0	17.5	22.0	21.0	20.5	19.5	18.5	17.5
20	12.5	10.5	14.5	13.5	18.0	17.5	21.5	20.5	20.5	19.5	17.5	17.0
21	12.5	12.0	14.5	13.5	19.0	17.5	22.5	21.0	20.0	19.5	17.5	17.0
22	12.0	11.5	15.0	13.5	19.0	18.0	23.0	21.0	20.0	19.0	18.5	17.5
23	12.0	11.0	15.5	14.5	18.5	18.0	23.0	21.0	19.5	18.5	18.5	17.0
24	11.5	10.5	16.0	15.0	19.0	17.5	23.5	21.5	20.5	19.0	18.5	17.5
25	10.5	9.5	17.5	15.0	20.0	17.0	23.0	21.0	20.0	18.5	18.5	17.5
26	9.5	8.5	17.5	16.5	19.5	18.5	23.5	21.5	19.5	18.5	18.5	17.0
27	10.0	8.5	17.5	16.5	19.5	18.0	22.5	21.5	19.0	18.5	18.0	17.0
28	11.0	10.0	18.0	17.0	20.0	18.0	22.5	20.5	19.5	18.5	18.0	17.0
29	11.5	10.5	19.0	17.0	19.5	18.0	22.5	21.0	19.0	18.0	18.0	16.0
30	11.5	10.5	19.5	18.0	19.5	18.0	21.0	19.0	19.5	18.0	18.0	17.0
31	---	---	20.5	19.5	---	---	20.5	18.5	19.0	18.0	---	---
MONTH	12.5	8.0	20.5	11.0	23.0	17.0	23.5	17.0	21.5	18.0	20.5	16.0

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	95	3	.77	553	5	7.5	605	5	8.2
2	95	3	.77	419	4	4.5	1280	98	339
3	93	3	.75	345	3	2.8	6500	1630	28600
4	88	3	.71	325	3	2.6	16100	2560	114000
5	93	3	.75	312	3	2.5	9640	1300	33800
6	93	3	.75	286	3	2.3	4800	400	5180
7	90	2	.49	272	7	5.1	3100	100	837
8	90	2	.49	350	3	2.8	2180	51	300
9	93	2	.50	390	3	3.2	1690	30	137
10	95	2	.51	410	3	3.3	1400	19	72
11	93	2	.50	380	3	3.1	1400	18	68
12	90	2	.49	345	3	2.8	1570	20	85
13	90	2	.49	310	2	1.7	2980	80	644
14	95	2	.51	280	2	1.5	6270	570	11000
15	97	2	.52	265	2	1.4	6850	550	10200
16	99	5	1.3	252	2	1.4	5210	200	2810
17	99	7	1.9	248	2	1.3	3910	80	845
18	99	6	1.6	282	2	1.5	3070	39	323
19	99	5	1.3	319	3	2.6	2410	26	169
20	95	4	1.0	366	5	4.9	1980	17	91
21	95	3	.77	605	7	11	1830	27	133
22	97	3	.79	938	11	28	2200	53	315
23	99	3	.80	1640	14	62	2150	28	163
24	99	2	.53	1380	11	41	1830	24	119
25	99	2	.53	1330	13	47	1560	18	76
26	99	2	.53	1410	23	88	1380	10	37
27	106	2	.57	1480	18	72	6150	679	17400
28	173	7	3.3	1140	12	37	22600	2160	141000
29	312	10	8.4	882	8	19	10900	750	22100
30	566	12	18	710	6	12	6790	270	4950
31	705	15	29	---	---	---	5040	160	2180
MONTH	4331	---	79.32	18224	---	475.8	145375	---	397981.2

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3970	87	933	6280	345	7170	10800	220	6420
2	3250	43	377	19400	1550	85100	16600	740	33200
3	2750	28	208	21100	810	46100	18600	935	47000
4	3070	26	216	25500	1210	86600	14500	470	18400
5	4770	247	4160	22700	850	52100	12300	240	7970
6	23800	1540	120000	24800	1020	68300	11200	210	6350
7	36400	1950	192000	39700	1650	177000	12800	310	10700
8	39500	2140	244000	48800	1560	206000	43000	1880	242000
9	34800	1350	127000	74800	2790	593000	45300	1370	168000
10	19800	860	46000	82500	2650	590000	31200	760	64000
11	14000	560	21200	46900	1360	172000	23600	490	31200
12	9970	380	10200	71800	3440	906000	17600	365	17300
13	7950	298	6400	170000	6860	3160000	14700	290	11500
14	6620	192	3430	96300	2750	715000	12700	225	7720
15	5700	130	2000	49300	1520	202000	11400	175	5390
16	4980	110	1480	32000	1000	86400	15600	540	22700
17	4320	110	1280	20200	720	39300	27100	1180	123000
18	3800	66	677	15500	550	23000	186000	5620	2820000
19	3480	45	423	24500	1530	145000	155000	3320	1390000
20	3210	34	295	74500	2950	617000	79800	2100	452000
21	2970	24	192	41300	1220	136000	59000	1920	320000
22	2740	19	141	26400	820	58400	84800	2350	547000
23	2520	16	109	18400	620	30800	63400	1340	229000
24	2330	17	107	15200	470	19300	59100	1140	182000
25	2170	17	100	13300	380	13600	138000	3480	1390000
26	2160	16	93	12000	315	10200	89500	2120	512000
27	2090	14	79	11000	253	7510	51300	1230	170000
28	1960	12	64	10600	205	5870	35900	860	83400
29	1760	10	48	---	---	---	26100	610	43000
30	1630	9	40	---	---	---	20000	540	29200
31	2100	33	228	---	---	---	18300	560	27700
MONTH	260570	---	783480	1114780	---	8258750	1405200	---	9018150
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	16700	540	24300	8370	152	3440	3450	29	270
2	13900	450	16900	7800	150	3160	3300	29	258
3	11800	380	12100	7510	142	2880	2830	28	214
4	11900	340	10900	8040	140	3040	2650	24	172
5	11700	300	9480	7360	138	2740	2550	21	145
6	11000	280	8320	6620	100	1790	2500	18	121
7	10200	250	6890	6200	78	1310	2400	16	104
8	9610	230	5970	6300	78	1330	2130	14	81
9	8760	190	4490	6400	78	1350	1980	14	75
10	8130	150	3290	6300	80	1360	1850	12	60
11	7800	137	2890	6400	114	1970	1680	10	45
12	7450	109	2190	6050	81	1320	1510	9	37
13	7190	89	1730	6350	81	1390	1370	7	26
14	7310	97	1910	7300	86	1700	1330	7	25
15	7420	102	2040	7400	230	4600	1230	7	23
16	7020	92	1740	7000	180	3400	1160	6	19
17	6720	79	1430	6300	135	2300	1080	6	17
18	6470	65	1140	5950	110	1770	1040	6	17
19	6380	54	930	6200	92	1540	990	5	13
20	6280	46	780	6800	80	1470	950	5	13
21	6250	46	776	5100	79	1090	910	4	9.8
22	6340	55	941	4300	60	697	880	4	9.5
23	6380	64	1100	4000	48	518	880	4	9.5
24	7950	230	4940	4050	46	503	904	4	9.8
25	21600	1440	87000	4200	44	499	870	4	9.4
26	17300	810	37800	3900	42	442	850	9	21
27	12900	400	13900	3700	38	380	800	9	19
28	10200	252	6940	3650	34	335	770	10	21
29	9320	202	5080	3550	32	307	735	6	12
30	8700	196	4600	3500	31	293	700	3	5.7
31	---	---	---	3500	30	283	---	---	---
MONTH	290680	---	282497	180100	---	49207	46279	---	1861.7

11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	680	4	7.3	237	3	1.9	182	2	.98
2	635	4	6.9	225	3	1.8	180	2	.97
3	625	4	6.8	229	3	1.9	179	2	.97
4	600	4	6.5	232	3	1.9	178	2	.96
5	600	4	6.5	225	2	1.2	175	2	.95
6	580	4	6.3	212	3	1.7	170	2	.92
7	555	5	7.5	204	3	1.7	170	2	.92
8	530	6	8.6	200	7	3.8	172	2	.93
9	515	6	8.3	200	4	2.2	167	2	.90
10	495	6	8.0	199	3	1.6	158	2	.85
11	475	6	7.7	198	3	1.6	154	3	1.2
12	460	5	6.2	195	3	1.6	213	2	1.2
13	445	5	6.0	190	3	1.5	276	2	1.5
14	425	5	5.7	185	3	1.5	177	2	.96
15	415	4	4.5	181	3	1.5	144	2	.78
16	405	4	4.4	182	2	.98	135	2	.73
17	410	4	4.4	183	3	1.5	131	2	.71
18	415	4	4.5	187	3	1.5	130	2	.70
19	420	3	3.4	190	3	1.5	130	2	.70
20	430	4	4.6	192	3	1.6	131	2	.71
21	415	4	4.5	200	3	1.6	133	2	.72
22	380	4	4.1	238	3	1.9	131	2	.71
23	350	3	2.8	248	3	2.0	126	1	.34
24	340	3	2.8	252	3	2.0	124	2	.67
25	320	3	2.6	228	3	1.8	121	2	.65
26	305	3	2.5	218	3	1.8	118	2	.64
27	292	3	2.4	200	3	1.6	121	2	.65
28	278	3	2.3	190	3	1.5	119	2	.64
29	267	3	2.2	179	2	.97	115	2	.62
30	268	7	5.1	180	2	.97	103	3	.83
31	250	4	2.7	182	2	.98	---	---	---
MONTH	13580	---	158.1	6361	---	51.60	4563	---	25.01
YEAR	3490043		18792717						

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE 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.										
03...	1645	11.0	7420	2220	44500	30	40	53	65	77
04...	1630	10.5	19900	2970	160000	27	38	51	64	74
14...	1305	10.5	5920	567	9070	--	--	--	--	--
28...	1030	7.5	28100	2920	222000	--	--	--	--	--
JAN.										
07...	1615	9.0	30000	1670	135000	24	34	46	56	75
09...	1645	7.0	28200	1130	86100	--	--	--	--	--
FEB.										
01...	1250	5.0	5920	400	6400	--	--	--	--	--
02...	1650	5.5	24400	1990	131000	14	20	28	36	49
09...	1515	8.0	86300	3720	867000	20	28	37	52	70
26...	1610	9.5	11700	315	9950	23	29	36	43	49
MAR.										
02...	1710	--	18200	1130	55600	22	27	35	43	52
08...	1840	--	58900	2420	385000	21	30	40	52	66
18...	1905	--	224000	4640	2810000	22	31	42	59	76
20...	1850	--	64700	1860	325000	19	26	36	47	60
23...	1815	--	57800	1140	178000	--	--	--	--	--
26...	1810	--	72400	1800	352000	20	27	37	49	60
APR.										
03...	1205	8.5	11600	382	12000	19	25	32	39	45
29...	1215	--	9290	201	5040	--	--	--	--	--



11477000 EEL RIVER AT SCOTIA, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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.									
03...	--	89	--	98	--	100	--	--	--
04...	--	82	--	91	--	98	--	100	--
14...	--	76	--	85	--	96	--	100	--
28...	--	87	--	96	--	100	--	--	--
JAN.									
07...	--	84	--	93	--	99	--	100	--
09...	--	80	--	91	--	99	--	100	--
FEB.									
01...	--	58	--	70	--	90	--	100	--
02...	--	58	--	69	--	86	--	100	--
09...	--	83	--	95	--	100	--	--	--
26...	54	--	62	--	95	--	100	--	--
MAR.									
02...	--	60	--	69	--	84	--	100	--
08...	--	78	--	91	--	98	--	100	--
18...	--	85	--	95	--	100	--	--	--
20...	--	72	--	92	--	100	--	--	--
23...	--	81	--	92	--	100	--	--	--
26...	--	74	--	90	--	100	--	--	--
APR.									
03...	--	53	--	64	--	87	--	100	--
29...	--	50	--	54	--	75	--	99	100

## EEL RIVER BASIN

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, on left bank at downstream side of bridge on State Highway 36, 0.9 mi (1.4 km) upstream from Grizzly Creek, and 5 mi (8 km) west of Bridgeville.

DRAINAGE AREA.--222 mi<sup>2</sup> (575 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 358.18 ft (109.173 m) above mean sea level. Prior to Oct. 1, 1965, at site 2.4 mi (3.9 km) upstream at different datum.

AVERAGE DISCHARGE.--25 years, 937 ft<sup>3</sup>/s (26.54 m<sup>3</sup>/s), 678,900 acre-ft/yr (837 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 26,200 ft<sup>3</sup>/s (742 m<sup>3</sup>/s) Mar. 18 (gage height, 17.75 ft or 5.410 m), from rating curve extended above 12,000 ft<sup>3</sup>/s (340 m<sup>3</sup>/s); minimum daily, 6.6 ft<sup>3</sup>/s (0.19 m<sup>3</sup>/s) Oct. 20.  
Period of record: Maximum discharge, 48,700 ft<sup>3</sup>/s (1,380 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 24.0 ft or 7.32 m, present site and datum, from floodmarks), from rating curve extended above 20,000 ft<sup>3</sup>/s (566 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 21.3 ft (6.49 m), former site and datum; minimum, 5.0 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) Sept. 13, 1959.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.0	35	162	458	894	2130	1430	903	180	64	23	16
2	7.1	30	536	382	1080	5240	1300	850	175	63	22	16
3	7.1	26	2850	330	1070	3570	1240	1050	170	61	21	16
4	7.1	24	3960	878	1270	2420	1180	1400	168	58	19	15
5	7.1	22	828	2930	1110	1810	1180	1150	165	56	19	14
6	7.1	21	524	5550	1890	1600	1050	950	155	54	19	14
7	7.1	37	373	3830	3190	2610	1010	820	150	52	19	14
8	7.1	86	281	6370	5060	4710	960	710	145	50	19	14
9	7.1	72	224	3770	9590	3240	912	630	130	48	19	14
10	7.1	54	187	4410	5740	2170	894	600	135	46	19	13
11	7.1	43	424	2710	3470	1600	885	550	130	44	18	13
12	7.1	37	840	1890	12600	1260	885	510	124	43	18	13
13	6.9	31	978	1460	12700	1080	922	485	120	42	17	13
14	7.1	28	2930	1140	5870	922	960	465	113	41	17	13
15	7.1	27	1590	859	3550	980	922	435	107	40	17	13
16	7.1	25	835	673	2450	1320	857	415	99	40	16	13
17	7.1	24	626	577	1760	4570	804	380	95	39	17	12
18	7.1	46	453	506	1530	22800	762	350	92	37	20	12
19	6.8	69	355	447	7390	11100	787	330	91	35	20	12
20	6.6	63	300	408	6290	5030	795	310	89	34	20	12
21	6.7	87	406	376	3650	4280	787	295	84	33	19	12
22	6.7	389	533	346	2650	4020	778	280	78	32	18	12
23	6.7	402	389	327	1970	3730	778	270	77	30	18	12
24	6.7	339	309	295	1660	6000	3270	250	89	29	18	12
25	6.7	240	265	277	1570	10800	3130	230	90	27	17	12
26	6.9	258	233	313	1380	4600	1910	215	81	26	16	11
27	8.4	162	4510	273	1470	2930	1400	210	75	25	16	11
28	25	162	2370	244	2060	2220	1170	200	70	25	16	11
29	62	162	1070	228	---	1820	1010	195	67	23	16	11
30	42	162	803	209	---	1830	931	190	65	23	17	11
31	40	---	576	336	---	1730	---	185	---	23	16	---
TOTAL	358.7	3163	30720	42802	104914	124122	34899	15813	3409	1243	566	387
MEAN	11.6	105	991	1381	3747	4004	1163	510	114	40.1	18.3	12.9
MAX	62	402	4510	6370	12700	22800	3270	1400	180	64	23	16
MIN	6.6	21	162	209	894	922	762	185	65	23	16	11
AC=FT	711	6270	60930	84900	208100	246200	69220	31370	6760	2470	1120	768
CAL YR 1974 TOTAL	333849.2			MEAN 915	MAX 27900	MIN 6.6	AC=FT 662200					
WTR YR 1975 TOTAL	362396.7			MEAN 993	MAX 22800	MIN 6.6	AC=FT 718800					

Date	Time	G.H.	Peak discharge (base, 15,000 ft <sup>3</sup> /s)	Date	Time	G.H.	Discharge
2-12	1645	15.43	19,700	3-25	0345	14.72	17,800
3-18	1945	17.75	26,200				

NOTE.--No gage-height record May 2 to June 12.

## 11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water year 1958 (partial-record station), October 1958 to current year.  
 Water temperatures: December 1960 to current year.  
 Sediment records: Water years 1955-67 (partial-record station).  
 Turbidity: Water years 1964-67 (partial-record station).

## EXTREMES.--Current year:

Water temperatures: Maximum, 26.5°C July 26; minimum, 2.0°C Jan. 30, 31.

## Period of record:

Water temperatures (1960-64, 1965 to current year): Maximum, 29.5°C July 1, 2, 1967; minimum, freezing point Dec. 14, 1972.

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT. 02...	1430	7.1	299	8.0	17.0	1	10.0
NOV. 13...	1245	32	282	8.3	12.0	1	11.4
DEC. 03...	1215	1820	154	7.8	9.0	140	10.5
JAN. 07...	1210	2500	107	7.6	8.0	170	11.3
FEB. 19...	1515	11200	81	8.0	8.0	850	12.0
MAR. 11...	1130	1590	106	7.4	9.0	55	11.1
APR. 15...	1140	912	110	7.4	8.0	15	11.4
MAY 13...	1120	613	121	7.6	18.0	7	9.3
JUNE 10...	1045	139	175	8.0	21.0	1	8.4
JULY 08...	1145	50	211	8.2	19.0	1	9.8
AUG. 12...	1000	18	260	8.2	20.0	1	8.9
SEP. 03...	1220	16	247	8.4	23.0	1	10.2

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
JAN. 07...	1210	2500	--	--	3.4	56	0	46	1.9
FEB. 19...	1515	11200	--	--	3.6	52	0	43	.0
APR. 15...	1140	912	2100	20	2.8	56	0	46	.0

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM CAR- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
JAN. 07...	--	--	--	50	4	.2	107	7.6	8.0
FEB. 19...	--	--	--	45	2	.2	81	8.0	8.0
APR. 15...	.01	.10	.04	49	3	.2	110	7.4	8.0

DATE	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JAN. 07...	170	11.3	2.3	100	--	--	--	--
FEB. 19...	850	12.0	.8	100	--	--	--	--
APR. 15...	15	11.4	3.6	0	0	0	0	10

## EEL RIVER BASIN

11478500 VAN DUZEN RIVER NEAR BRIDGEVILLE, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	14.5	14.0	10.5	9.0	7.0	5.5	4.0	4.5	3.0	9.0	8.0
2	17.5	15.5	13.5	9.5	10.0	9.0	4.5	3.0	5.0	4.0	8.5	7.0
3	19.0	15.5	14.0	8.0	9.5	8.5	5.0	3.0	6.0	4.0	9.0	6.5
4	18.5	15.0	13.5	8.5	8.5	8.0	6.5	5.0	6.0	5.0	9.0	7.0
5	17.5	12.0	14.5	10.0	8.5	8.0	7.0	6.0	6.0	5.5	9.5	8.0
6	18.0	11.5	14.5	10.5	10.5	8.5	8.5	7.0	7.0	6.0	10.0	8.5
7	18.5	12.5	13.5	11.5	10.5	9.5	9.0	8.5	6.0	5.5	9.0	8.5
8	16.5	13.0	12.0	9.5	9.5	8.0	9.0	6.0	7.0	5.5	8.5	7.5
9	18.0	13.0	11.0	9.0	10.0	8.0	6.0	5.0	6.5	5.0	8.0	7.0
10	17.5	12.5	14.0	10.5	9.5	8.0	7.0	5.5	7.5	6.0	8.0	7.0
11	18.5	14.5	14.0	9.5	10.0	9.0	7.0	6.0	7.5	7.0	8.5	6.5
12	18.0	13.0	13.5	10.0	11.0	9.5	7.0	5.5	7.5	6.0	8.5	7.0
13	18.0	13.0	13.5	9.0	9.5	8.0	7.5	6.0	7.5	6.5	8.0	6.5
14	18.0	12.5	13.0	10.0	10.0	9.0	6.5	5.0	7.0	6.5	8.5	5.5
15	18.5	13.0	12.0	11.0	11.0	10.0	6.5	5.0	7.0	5.5	7.5	6.0
16	18.5	13.5	11.5	10.5	11.0	9.0	7.0	5.5	7.0	5.5	7.0	5.0
17	17.5	13.0	12.0	10.0	9.5	8.0	7.5	5.5	6.0	4.5	6.5	6.5
18	17.5	13.0	12.5	10.0	8.5	7.0	7.5	6.5	7.0	6.0	7.5	6.5
19	16.5	13.5	11.5	8.5	8.5	6.5	8.0	5.5	7.5	6.0	8.0	7.0
20	16.5	13.5	11.5	9.0	10.5	8.5	8.5	7.5	6.5	5.5	7.5	6.0
21	15.0	11.0	11.5	9.0	10.5	8.0	8.5	7.0	6.0	4.5	7.5	4.5
22	16.0	10.5	10.0	8.0	8.0	5.5	9.0	6.5	7.0	4.5	6.5	4.5
23	15.5	12.0	10.0	7.0	5.5	4.5	9.5	7.5	7.5	5.5	7.0	6.0
24	15.5	11.0	10.5	7.5	5.0	3.0	9.5	6.5	8.5	6.5	7.5	6.5
25	16.0	12.0	10.5	9.0	5.0	3.5	10.5	9.0	8.5	6.5	7.5	5.0
26	16.0	12.0	10.0	8.0	7.0	4.5	9.0	6.5	8.0	7.0	7.5	5.0
27	15.0	13.5	10.0	8.5	8.0	6.5	7.0	4.5	8.5	7.0	8.5	6.0
28	14.5	13.0	10.0	8.0	6.5	5.0	6.0	4.0	9.0	7.5	8.0	5.5
29	14.5	10.5	9.0	6.0	5.0	3.5	5.5	3.5	---	---	9.5	6.0
30	14.0	11.5	9.0	6.0	6.0	4.5	5.0	2.0	---	---	10.0	8.0
31	14.5	11.5	---	---	4.5	3.5	4.0	2.0	---	---	9.5	7.5
MONTH	20.0	10.5	14.5	6.0	11.0	3.0	10.5	2.0	9.0	3.0	10.0	4.5

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

## MAD RIVER BASIN

375

11480400 RUTH RESERVOIR NEAR FOREST GLEN, CALIF.

LOCATION.--Lat 40°21'29", long 123°25'20", in SE&SE& sec.19, T.1 S., R.7 E., Trinity County, Six Rivers National Forest, near center of Ruth Dam on Mad River, 5.2 mi (8.4 km) west of Forest Glen.

DRAINAGE AREA.--119 mi<sup>2</sup> (308 km<sup>2</sup>).

PERIOD OF RECORD.--October 1966 to current year. Records prior to October 1966 in files of Humboldt Bay Municipal Water District.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Humboldt Bay Municipal Water District).

EXTREMES.--Current year: Maximum contents, 66,400 acre-ft (81.9 hm<sup>3</sup>) Feb. 14 (elevation, 2,665.98 ft or 812.591 m); minimum, 16,000 acre-ft (19.7 hm<sup>3</sup>) Dec. 1 (elevation, 2,614.38 ft or 796.863 m).

Period of record: Maximum contents, 66,400 acre-ft (81.9 hm<sup>3</sup>) Feb. 14, 1975 (elevation, 2,665.98 ft or 812.591 m); minimum, 14,700 acre-ft (18.1 hm<sup>3</sup>) Nov. 16 to Dec. 2, 1967 (elevation, 2,612.34 ft or 796.241 m).

REMARKS.--Reservoir is formed by earthfill dam; storage began July 1961. Total capacity, 51,800 acre-ft (63.9 hm<sup>3</sup>) at elevation 2,654.0 ft (808.94 m), crest of spillway. Water is released down Mad River for municipal use. Records given herein represent total contents.

## CAPACITY TABLE (ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET)

2,595	6,670	2,640	37,300
2,600	8,520	2,645	42,300
2,605	10,700	2,650	47,400
2,610	13,300	2,655	52,900
2,615	16,500	2,660	58,700
2,620	20,100	2,665	65,000
2,625	23,900	2,670	72,300
2,630	27,800	2,675	80,300
2,635	32,500		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29900	22300	16100	21900	39900	53600	53700	52700	52100	50600	47200	41400
2	29700	22100	16400	21900	40100	54200	53400	52700	52100	50600	47100	41200
3	29400	21900	17100	22000	40400	53900	53300	52900	52100	50400	46900	41000
4	29100	21600	18000	22200	40500	53600	53100	53000	52000	50400	46800	40800
5	28900	21400	18200	22900	40500	53300	53000	53000	52000	50300	46600	40600
6	28600	21200	18300	25800	40800	53100	52800	53000	52000	50200	46400	40400
7	28400	21000	18300	27700	42900	53300	53000	52900	51900	50100	46300	40200
8	28200	20700	18300	31600	47100	54700	53100	52900	51900	50000	46100	40000
9	27900	20500	18300	33300	53600	54400	53100	52800	51900	50000	46000	39800
10	27600	20300	18200	34400	54700	53900	53100	52800	51900	49900	45800	39600
11	27400	20000	18200	35100	54200	53500	53100	52700	51900	49700	45700	39300
12	27200	19800	18200	35700	60300	53100	53200	52700	51800	49700	45600	39100
13	26900	19500	18300	36200	58900	52800	53200	52700	51800	49600	45400	39000
14	26700	19200	18500	36600	56000	52800	53300	52600	51800	49600	45200	38800
15	26500	19000	18800	37000	54600	53000	53200	52600	51700	49500	45100	38600
16	26200	18700	18900	37300	53800	53100	53100	52600	51600	49400	44900	38400
17	26000	18500	19000	37600	53300	54700	53000	52500	51500	49300	44700	38200
18	25800	18300	19000	37900	53000	61400	53000	52500	51500	49100	44500	38000
19	25500	18100	19000	38100	56400	58200	52900	52400	51400	49000	44100	37900
20	25300	17800	18900	38300	55600	55900	52900	52400	51400	48900	44000	37700
21	25100	17700	18900	38500	54500	54900	52900	52400	51300	48800	43900	37500
22	24800	17400	19000	38600	53800	54200	52900	52400	51200	48700	43700	37300
23	24500	17200	18900	38800	53300	54000	53000	52300	51200	48600	43400	37100
24	24300	17000	18900	38900	53100	55900	54000	52300	51100	48500	43200	36900
25	24000	16800	18900	39000	53100	58000	54200	52300	51100	48300	43000	36700
26	23800	16700	18900	39100	53000	56000	53900	52300	51000	48200	42800	36500
27	23600	16600	20400	39200	53100	54900	53700	52200	50900	48000	42500	36300
28	23400	16500	21200	39300	53100	54200	53500	52200	50900	47900	42300	36100
29	23100	16300	21500	39400	---	53900	53300	52200	50700	47700	42100	36000
30	22900	16200	21700	39500	---	53900	53100	52200	50700	47500	41800	35800
31	22600	---	21800	39700	---	53900	---	52100	---	47400	41600	---
MAX	29900	22300	21800	39700	60300	61400	54200	53000	52100	50600	47200	41400
MIN	22600	16200	16100	21900	39900	52800	52800	52100	50700	47400	41600	35800
(a)	2,623.26	2,614.58	2,622.24	2,642.40	2,655.28	2,655.85	2,655.10	2,654.29	2,653.00	2,649.98	2,644.25	2,638.40
(b)	-7,600	-6,400	+5,600	+17,900	+13,400	+800	-800	-1,000	-1,400	-3,300	-5,800	-5,800

CAL YR 1974 b -32,700  
WTR YR 1975 b +5,600

a Elevation, in feet, at end of month.  
b Change in contents, in acre-feet.

## MAD RIVER BASIN

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, on right bank 0.7 mi (1.1 km) downstream from Lamb Creek, and 11.1 mi (17.9 km) northwest of Forest Glen.

DRAINAGE AREA.--143 mi<sup>2</sup> (370 km<sup>2</sup>).

PERIOD OF RECORD.--June 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,408.18 ft (734.013 m) above mean sea level. Prior to Dec. 22, 1955, water-stage recorder at site 0.7 mi (1.1 km) upstream at different datum. Jan. 13 to June 18, 1956, nonrecording gage at former site at datum 4.17 ft (1.271 m) lower than former datum.

AVERAGE DISCHARGE.--22 years, 399 ft<sup>3</sup>/s (11.30 m<sup>3</sup>/s), 289,100 acre-ft/yr (356 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 10,600 ft<sup>3</sup>/s (300 m<sup>3</sup>/s) Mar. 18 (gage height, 11.57 ft or 3.527 m); minimum daily, 17 ft<sup>3</sup>/s (0.48 m<sup>3</sup>/s) Jan. 30.  
Period of record: Maximum discharge, 39,200 ft<sup>3</sup>/s (1,110 m<sup>3</sup>/s) Dec. 22, 1955 (gage height, 24.5 ft or 7.468 m, from floodmarks, present datum), from rating curve extended above 8,100 ft<sup>3</sup>/s (229 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 0.60 ft<sup>3</sup>/s (0.017 m<sup>3</sup>/s) Sept. 15, 1961.

REMARKS.--Records good. Flow regulated by Ruth Reservoir 9 mi (14 km) upstream beginning in July 1961 (see sta 11480400). No diversion above station.

REVISIONS (WATER YEARS).--WSP 1395: 1954. WSP 1715: 1957(M), 1958(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	120	66	85	26	1100	1260	674	96	55	70	108
2	113	110	133	82	29	1550	1090	408	91	55	70	104
3	113	111	232	82	30	1550	979	342	83	55	70	93
4	113	110	153	118	47	1300	912	382	80	55	70	93
5	113	109	90	250	158	1090	841	358	78	63	70	93
6	113	109	79	376	219	951	755	342	75	63	70	93
7	113	115	79	244	361	1020	567	319	70	63	70	93
8	113	111	79	362	536	1690	498	304	67	63	70	93
9	113	111	79	223	771	1890	508	293	66	47	70	93
10	113	109	79	240	1730	1570	508	304	63	46	70	93
11	112	109	120	189	1940	1260	518	293	61	46	70	93
12	112	109	200	158	4870	1020	527	272	60	44	70	93
13	113	93	130	140	8990	849	557	262	59	44	70	93
14	113	169	170	119	4740	625	593	248	57	44	72	93
15	112	106	110	90	2590	511	583	232	57	47	80	93
16	112	107	90	83	1680	580	537	222	57	64	89	93
17	112	108	84	52	1200	802	489	213	57	64	100	87
18	111	109	79	39	937	6980	443	204	57	64	100	87
19	111	107	77	33	1890	8370	412	193	57	64	100	87
20	112	106	75	30	3360	4060	395	182	56	64	102	87
21	112	114	80	28	2250	2490	387	174	55	63	108	87
22	118	110	78	25	1540	1800	370	164	55	52	108	87
23	126	107	75	24	1170	1400	387	156	55	52	108	87
24	126	107	74	23	986	1780	708	146	56	53	108	87
25	125	113	73	22	939	5710	1170	139	55	70	108	87
26	125	68	73	22	906	4120	1060	132	55	72	108	87
27	128	67	249	20	907	2530	879	123	56	70	108	87
28	134	65	154	20	991	1820	737	116	56	70	108	87
29	125	65	107	19	---	1410	630	110	55	72	108	87
30	124	65	97	17	---	1360	625	106	55	70	108	87
31	126	---	89	21	---	1390	---	100	---	70	108	---
TOTAL	3620	3119	3353	3236	45793	64578	19925	7513	1900	1824	2741	2732
MEAN	117	104	108	104	1635	2083	664	242	63.3	58.8	88.4	91.1
MAX	134	169	249	376	8990	8370	1260	674	96	72	108	108
MIN	111	65	66	17	26	511	370	100	55	44	70	87
AC-FT	7180	6190	6650	6420	90830	128100	39520	14900	3770	3620	5440	5420
CAL YR 1974	TOTAL	186430	MEAN 511	MAX 14600	MIN 24	AC-FT 369800						
WTR YR 1975	TOTAL	160334	MEAN 439	MAX 8990	MIN 17	AC-FT 318000						

## 11480500 MAD RIVER NEAR FOREST GLEN, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1971-74 (partial-record station).

Water temperatures: November 1960 to current year.

Sediment records: Water years 1957-74 (partial-record station).

Turbidity: Water years 1964-67, 1971-74 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 21.5°C July 11, 12; minimum, 0.5°C on several days during January and February.

Period of record:

Water temperatures: Maximum (1960-66, 1967 to current year), 26.0°C June 25, 1961; minimum, freezing point Jan. 5, 6, 1968.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.5	14.0	13.0	11.0	7.5	6.5	4.5	3.5	0.5	0.5	5.5	5.0
2	17.0	14.0	11.5	10.0	8.0	7.5	4.0	3.0	0.5	0.5	6.5	5.5
3	17.0	14.0	---	---	8.0	7.0	4.5	3.0	1.0	0.5	6.5	5.0
4	16.5	13.5	---	---	8.0	7.0	5.0	4.0	1.5	0.5	7.0	5.5
5	16.0	13.5	---	---	8.0	7.0	5.0	4.5	1.0	0.5	6.5	5.5
6	16.5	13.5	---	---	8.5	8.0	6.5	5.0	2.0	1.0	6.5	6.0
7	17.0	13.5	---	---	9.0	7.5	6.5	5.5	3.0	2.0	6.5	6.0
8	16.0	14.0	---	---	8.0	7.0	5.5	3.5	3.0	2.5	6.5	6.0
9	17.0	14.5	---	---	8.0	7.0	4.0	3.5	4.5	2.5	6.5	6.0
10	16.5	13.5	---	---	7.5	7.0	5.0	4.0	4.0	3.0	7.0	5.5
11	16.5	13.5	---	---	8.0	7.5	5.5	4.0	4.0	3.5	7.0	5.5
12	17.0	14.0	---	---	8.5	8.0	5.5	4.5	4.0	3.0	7.0	5.5
13	16.5	13.5	---	---	8.0	7.5	5.5	4.0	4.0	3.5	6.0	5.5
14	16.5	13.5	---	---	8.0	7.5	5.0	3.5	4.0	3.0	8.0	5.5
15	16.5	13.5	11.0	10.0	9.0	8.0	4.5	3.0	4.5	3.0	5.5	4.5
16	16.5	13.5	10.5	9.5	8.5	7.5	5.0	3.5	4.5	3.5	6.5	4.5
17	16.0	13.0	10.5	9.5	8.0	6.5	5.5	4.0	4.5	3.0	6.0	4.5
18	16.5	13.5	10.5	10.0	7.0	6.0	6.0	4.5	4.5	3.5	6.0	5.0
19	15.5	13.5	10.5	9.5	7.5	7.0	6.0	4.0	4.5	4.0	6.5	5.5
20	15.5	13.0	10.5	9.5	9.0	7.5	6.0	4.5	4.5	3.5	6.0	5.5
21	15.0	12.5	10.5	9.5	8.5	7.0	6.0	4.0	5.0	3.5	5.5	4.5
22	15.0	12.5	10.0	9.0	7.0	5.0	6.0	4.5	5.5	3.5	5.5	4.5
23	14.5	12.0	10.0	9.0	5.5	4.0	6.5	4.5	5.5	3.5	5.5	5.0
24	14.5	12.0	10.0	9.0	5.0	4.0	6.5	5.0	6.0	4.0	5.5	5.0
25	14.5	12.5	10.0	9.0	5.5	4.0	7.5	6.0	6.0	4.0	6.0	5.0
26	14.5	12.5	9.0	8.0	6.5	4.5	7.0	5.0	5.5	4.5	6.0	5.5
27	14.0	13.0	9.5	8.0	6.5	5.0	5.0	3.5	6.0	5.0	6.5	5.0
28	13.5	12.0	8.5	7.5	5.0	4.0	3.5	2.5	6.5	5.5	6.0	5.0
29	13.5	11.5	8.0	7.0	4.5	3.5	3.0	1.5	---	---	6.5	4.5
30	13.5	12.0	8.0	6.5	5.0	4.0	3.0	1.5	---	---	6.5	5.0
31	13.5	12.0	---	---	4.5	3.5	2.5	0.5	---	---	6.5	5.0
MONTH	17.5	11.5	---	---	9.0	3.5	7.5	0.5	6.5	0.5	8.0	4.5

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

## MAD RIVER BASIN

11480780 MAD RIVER NEAR BLUE LAKE, CALIF.

LOCATION.--Lat 40°50'47", long 123°58'54", in NW¼ sec.5, T.5 N., R.2 E., Humboldt County, on right bank 0.3 mi (0.5 km) upstream from small left-bank tributary, and 2.4 mi (3.9 km) south of town of Blue Lake.

DRAINAGE AREA.--393 mi<sup>2</sup> (1,018 km<sup>2</sup>).

PERIOD OF RECORD.--December 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (40 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 31,700 ft<sup>3</sup>/s (898 m<sup>3</sup>/s) Mar. 18 (gage height, 19.76 ft or 6.023 m), from rating curve extended above 8,600 ft<sup>3</sup>/s (244 m<sup>3</sup>/s); minimum daily, 90 ft<sup>3</sup>/s (2.55 m<sup>3</sup>/s) Aug. 14, 15. Period of record: Maximum discharge, 34,100 ft<sup>3</sup>/s (966 m<sup>3</sup>/s) Jan. 16, 1974 (gage height, 20.23 ft or 6.166 m), from rating curve extended above 8,600 ft<sup>3</sup>/s (244 m<sup>3</sup>/s); minimum daily, 86 ft<sup>3</sup>/s (2.44 m<sup>3</sup>/s) July 3, 4, 1973.

REMARKS.--Records good. Flow regulated by Ruth Reservoir 61 mi (98 km) upstream (see sta 11480400). No diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	131	176	121	690	1430	2780	2940	1760	338	131	105	135
2	125	163	148	570	1990	4700	2630	1660	324	131	102	135
3	125	148	1490	488	1480	4770	2420	1540	308	129	101	135
4	125	145	3000	1050	1910	3700	2280	1680	289	127	101	121
5	125	145	1190	4040	1540	2970	2200	1510	277	124	101	114
6	125	143	625	8860	2340	2570	2070	1350	265	125	101	112
7	123	173	460	5540	3210	3190	1920	1230	249	128	100	112
8	123	232	350	9120	4150	5830	1720	1170	243	126	97	110
9	123	183	280	5250	8250	5480	1610	1160	231	126	96	110
10	123	169	232	6500	7170	4370	1550	1130	221	117	95	110
11	123	163	1000	3980	6110	3560	1530	1150	209	100	93	107
12	121	153	1460	2700	11000	2910	1510	1040	198	95	93	107
13	121	153	1720	2100	17500	2470	1570	999	189	95	91	107
14	121	153	4320	1700	10300	2150	1660	979	182	94	90	107
15	121	183	3690	1380	5780	1760	1650	906	174	93	90	105
16	121	150	2070	1180	3990	2100	1550	823	171	93	97	105
17	121	148	1390	1020	2860	5070	1450	788	162	104	100	103
18	118	205	976	880	2430	26000	1360	762	160	114	125	97
19	118	220	782	774	8450	19800	1390	730	160	112	125	95
20	118	183	682	690	10000	10300	1380	654	159	112	123	97
21	118	190	830	618	5910	7590	1330	608	153	112	121	97
22	118	350	1070	557	4040	6280	1280	578	148	108	126	97
23	118	220	863	506	3150	4840	1270	556	146	103	131	95
24	127	179	705	471	2690	6040	2560	533	178	101	131	94
25	129	400	611	443	2490	15600	3950	504	182	96	131	94
26	129	339	550	500	2340	9660	3380	473	180	95	129	94
27	131	208	3100	454	2350	5910	2760	450	146	103	131	93
28	228	173	3170	416	2730	4330	2300	428	138	103	141	93
29	249	145	1710	390	---	3380	1940	402	138	105	138	92
30	179	131	1180	360	---	3250	1750	383	135	105	138	92
31	176	---	872	563	---	3260	---	357	---	105	135	---
TOTAL	4153	5723	40647	63790	137590	186620	58910	28293	6053	3412	3478	3165
MEAN	134	191	1311	2058	4914	6020	1964	913	202	110	112	106
MAX	249	400	4320	9120	17500	26000	3950	1760	338	131	141	135
MIN	118	131	121	360	1430	1760	1270	357	135	93	90	92
AC=FT	8240	11350	80620	126500	272900	370200	116800	56120	12010	6770	6900	6280
CAL YR 1974	TOTAL	502279	MEAN	1376	MAX	30200	MIN 97	AC=FT	996300			
WTR YR 1975	TOTAL	541834	MEAN	1484	MAX	26000	MIN 90	AC=FT	1075000			



## 11480780 MAD RIVER NEAR BLUE LAKE, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: August 1972 to September 1974.

Water temperatures: October 1972 to current year.

Sediment records: Water years 1973-74 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 26.5°C July 26, Aug. 3; minimum, 2.5°C Jan. 29, 30.

Period of record:

Water temperatures: Maximum, 27.5°C July 25, 1974; minimum, 1.5°C Dec. 14, 1972.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	16.0	13.0	9.0	8.0	7.0	6.0	4.0	5.5	4.0	8.5	7.0
2	20.0	16.0	12.5	9.0	8.5	6.5	6.0	5.0	5.5	4.5	8.0	7.0
3	20.0	17.0	12.5	9.0	9.0	8.0	5.0	4.0	7.0	5.0	8.0	7.0
4	18.0	17.0	12.0	9.0	9.0	8.0	6.0	4.0	6.5	4.5	9.0	7.0
5	19.0	17.0	13.0	10.0	8.5	7.5	6.5	6.0	7.0	5.5	9.0	8.0
6	20.0	18.0	13.0	10.0	8.0	6.0	7.5	6.0	7.5	5.5	9.0	8.0
7	21.0	18.0	12.5	9.5	9.0	7.0	8.0	7.5	6.5	5.5	8.5	8.0
8	21.0	19.0	12.0	10.0	9.0	8.0	9.0	8.0	6.5	5.5	8.0	7.0
9	21.0	19.0	12.0	9.0	10.0	7.5	8.5	6.0	6.0	5.5	9.0	6.0
10	21.0	19.0	13.0	10.0	9.5	8.0	8.0	6.0	6.5	5.5	9.0	7.0
11	21.5	19.5	13.0	10.0	9.0	8.0	7.5	6.5	6.5	6.5	9.0	6.5
12	22.0	19.5	13.0	10.0	9.5	9.0	7.5	6.5	6.5	5.5	9.0	7.0
13	22.0	20.0	12.5	9.5	10.0	9.0	8.5	6.5	6.5	5.0	8.0	6.0
14	22.0	20.0	12.0	10.0	9.0	8.0	8.5	6.5	5.5	4.5	9.0	6.0
15	22.0	20.0	12.0	10.5	9.0	8.5	7.5	6.5	5.5	4.5	8.0	6.0
16	22.0	20.0	11.0	10.5	10.0	9.0	8.5	6.5	6.5	4.0	7.0	5.5
17	22.0	20.0	11.5	10.0	10.0	8.0	7.5	6.5	5.5	4.0	7.5	7.0
18	22.0	20.0	12.0	10.5	9.0	8.0	8.5	6.5	7.5	5.0	8.0	7.0
19	---	---	11.0	9.0	8.0	7.0	8.5	7.0	8.0	6.0	7.5	6.5
20	---	---	10.5	9.5	8.0	7.0	8.5	7.0	7.0	4.5	7.0	6.0
21	---	---	12.0	10.0	10.0	8.0	8.5	7.0	7.0	3.5	6.0	5.0
22	14.5	11.0	10.0	8.5	9.5	7.0	8.5	7.5	7.5	4.0	7.0	5.0
23	15.0	12.0	10.0	8.0	7.0	6.0	8.5	7.0	8.0	6.0	7.0	6.0
24	14.0	11.0	10.0	8.5	6.5	4.5	10.0	7.5	8.5	6.0	7.5	6.5
25	15.0	11.5	10.5	8.5	6.0	4.5	9.5	7.0	8.0	6.0	8.0	5.0
26	14.5	11.0	10.0	9.0	6.0	4.0	7.5	5.0	7.0	6.5	7.0	5.0
27	14.0	12.0	9.0	7.0	8.0	5.0	7.0	4.5	8.0	7.0	8.0	6.0
28	13.0	11.0	10.0	8.0	7.5	6.0	5.5	4.0	9.5	7.0	8.0	6.0
29	13.5	10.0	10.0	8.0	6.0	5.5	6.5	2.5	---	---	9.5	6.0
30	12.5	11.0	9.0	7.0	5.5	4.0	5.0	2.5	---	---	8.5	7.0
31	14.0	10.0	---	---	6.0	5.5	4.5	3.5	---	---	9.0	6.0
MONTH	22.0	10.0	13.0	7.0	10.0	4.0	10.0	2.5	9.5	3.5	9.5	5.0

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

## MAD RIVER BASIN

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, on right bank 100 ft (30 m) upstream from bridge on U.S. Highway 299, 1.0 mi (1.6 km) downstream from Warren Creek, and 2.8 mi (4.5 km) northeast of Arcata.

DRAINAGE AREA.--485 mi<sup>2</sup> (1,256 km<sup>2</sup>).

PERIOD OF RECORD.--October 1910 to September 1913, August 1950 to current year. Monthly discharge only for some periods published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 12.79 ft (3.898 m) above mean sea level. December 1910 to September 1913, nonrecording gage at site 0.1 mi (0.2 km) upstream at different datum. Aug. 15, 1950, to July 23, 1956, water-stage recorder at site 0.6 mi (1.0 km) upstream at datum 11.00 ft (3.353 m) higher. July 24, 1956, to Apr. 9, 1965, water-stage recorder at datum 5.00 ft (1.524 m) higher. Aug. 29 to Oct. 26, 1961, auxiliary water-stage recorder at site 0.5 mi (0.8 km) downstream at different datum.

AVERAGE DISCHARGE (adjusted for diversions).--28 years, 1,570 ft<sup>3</sup>/s (44.46 m<sup>3</sup>/s), 1,137,000 acre-ft/yr (1.40 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 43,400 ft<sup>3</sup>/s (1,230 m<sup>3</sup>/s) Mar. 18 (gage height, 20.70 ft or 6.309 m); minimum daily, 6.7 ft<sup>3</sup>/s (0.19 m<sup>3</sup>/s) Aug. 8.  
Period of record: Maximum discharge, 81,000 ft<sup>3</sup>/s (2,290 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 30.7 ft or 9.36 m, present datum, from high-water mark profile); minimum, 0.75 ft<sup>3</sup>/s (0.021 m<sup>3</sup>/s) July 31, 1970.

REMARKS.--Records fair except those for June 13 to Aug. 11, which are poor. Flow regulated by Ruth Reservoir 68 mi (109 km) upstream beginning in July 1961 (see sta 11480400). Water is diverted 0.5 mi (0.8 km) upstream from station for municipal supply and industrial use in Humboldt Bay area.

REVISIONS (WATER YEARS).--WRD Calif. 1972: 1965(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	65	66	1440	1970	2890	3240	2020	250	54	8.2	65
2	44	52	73	1420	2300	4850	2790	1890	231	53	7.8	56
3	43	47	1190	1400	2320	5150	2610	1970	212	50	7.4	40
4	42	45	4440	2150	2330	3920	2630	2290	197	49	7.0	29
5	37	49	1530	11100	2360	3110	2560	1970	184	49	6.9	20
6	33	52	760	7710	2500	2680	2380	1690	182	49	6.8	16
7	28	88	532	11500	4000	3270	2140	1540	170	47	6.8	21
8	27	144	392	5100	5500	6740	1920	1410	163	45	6.7	21
9	28	113	289	4770	9800	6000	1750	1370	148	43	7.2	20
10	30	97	231	2910	8800	4950	1630	1340	140	41	7.7	18
11	30	85	1220	2280	7400	4070	1540	1400	132	39	9.9	20
12	30	73	2330	1860	10600	3170	1510	1240	130	35	10	18
13	32	67	3500	1560	18200	2630	1560	1160	124	23	10	18
14	32	64	5200	1200	11200	2200	1710	1120	111	20	10	20
15	30	87	4000	952	6930	2740	1740	1040	111	18	9.9	21
16	30	65	2500	823	5100	3410	1570	903	102	35	9.5	21
17	30	59	1600	716	3870	4490	1420	856	101	43	10	20
18	30	97	1100	645	3370	31700	1300	810	99	46	35	20
19	30	136	900	573	11800	24200	1320	754	90	48	47	16
20	29	102	601	502	12100	12000	1300	663	94	45	32	14
21	30	106	981	445	7050	9820	1280	606	92	29	30	14
22	30	271	1360	395	4730	8960	1180	558	85	25	33	14
23	29	197	938	350	3500	6970	1240	527	75	21	42	14
24	29	136	710	330	2880	8060	2630	492	84	18	46	15
25	36	309	542	310	2640	19000	4720	449	90	15	44	18
26	46	343	436	370	2480	10800	4030	396	87	13	33	18
27	75	202	4180	468	2450	7050	3270	359	65	12	37	18
28	140	150	5080	445	2990	5180	2680	327	61	11	56	18
29	153	120	2920	409	---	4180	2340	296	53	10	56	18
30	110	85	2240	359	---	3800	2070	280	55	9.4	43	18
31	88	---	1740	729	---	3650	---	265	---	8.7	43	---
TOTAL	1431	3506	53581	65221	161170	221640	64060	31991	3718	1004.1	718.8	659
MEAN	46.2	117	1728	2104	5756	7150	2135	1032	124	32.4	23.2	22.0
MAX	153	343	5200	11500	18200	31700	4720	2290	250	54	56	65
MIN	27	45	66	310	1970	2200	1180	265	53	8.7	6.7	14
AC-FT	2840	6950	106300	129400	319700	439600	127100	63450	7370	1990	1430	1310
(a)	5,620	5,150	5,060	5,280	4,630	5,010	4,410	5,190	5,780	4,630	5,400	5,800
CAL YR 1974	TOTAL	552489.0	MEAN	1514	MAX	36600	MIN	16	AC-FT	1096000	a 61,660	
WTR YR 1975	TOTAL	608699.9	MEAN	1668	MAX	31700	MIN	6.7	AC-FT	1207000	a 61,960	

a Diversion, in acre-feet, for municipal supply and industrial use, furnished by Humboldt Municipal Water District.

## 11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: November 1958 to current year.

Water temperatures: December 1957 to current year.

Sediment records: Water years 1955-57 (partial-record station), December 1957 to September 1974.

Turbidity: Water years 1971-74 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Minimum, 4.0°C Jan. 30.

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.

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
NOV. 12...	1430	74	201	8.1	14.0	1	11.4
JAN. 06...	1525	6000	77	7.4	9.0	370	11.7
MAR. 10...	1330	4950	90	7.4	9.0	140	11.1
MAY 12...	1325	1240	107	8.0	18.0	25	9.8
JULY 07...	1330	67	205	8.0	19.0	1	9.5
SEP. 02...	1330	54	196	8.1	20.0	1	10.0

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)
JAN. 06...	1525	6000	--	--	12	1.7	3.2	2.1	39	0	32	5.8
MAY 12...	1325	1240	2300	60	--	--	3.0	--	54	0	44	--

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
JAN. 06...	1.9	--	--	--	61	.08	988	37	5	15	.2
MAY 12...	1.6	.01	.10	.06	--	--	--	47	3	--	.2

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JAN. 06...	77	7.4	9.0	370	11.7	2.5	100	--	--	--	--
MAY 12...	107	8.0	18.0	25	9.8	.9	0	0	0	0	10

11481000 MAD RIVER NEAR ARCATA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	14.5	14.5	9.5	10.0	8.5	8.0	5.0	5.5	4.5	10.0	9.0
2	19.5	13.5	14.5	9.5	10.5	10.0	7.5	4.5	6.5	5.0	10.0	9.0
3	20.0	13.0	14.5	9.5	10.0	9.5	7.0	5.0	7.5	5.5	10.0	8.0
4	19.0	12.5	13.0	10.0	10.5	9.0	8.0	6.5	7.0	5.5	10.5	8.5
5	20.0	12.0	15.0	11.5	9.5	9.0	8.0	7.0	7.5	6.5	9.5	9.0
6	20.0	12.5	14.0	11.5	10.0	9.0	9.0	8.0	9.0	7.5	10.5	8.5
7	20.5	12.5	14.5	11.5	11.0	10.0	9.5	8.5	8.0	8.0	9.5	9.5
8	18.5	13.5	14.0	11.0	10.5	9.5	9.5	7.5	8.0	7.5	9.5	8.5
9	20.5	13.0	12.5	10.5	10.5	9.5	7.5	6.5	7.5	6.5	9.5	8.0
10	20.5	13.0	14.5	12.5	10.5	9.5	8.5	7.5	---	---	9.5	8.5
11	20.5	14.0	15.5	11.5	10.5	10.5	8.5	7.0	---	---	11.0	8.0
12	20.5	13.5	16.0	11.0	11.0	9.5	9.0	7.0	9.0	8.0	10.5	8.5
13	20.5	13.5	13.5	11.0	10.5	10.0	10.0	7.5	8.5	7.5	8.5	7.5
14	20.0	13.5	14.0	12.0	10.5	10.0	9.0	6.5	8.5	7.0	10.5	7.5
15	21.0	13.0	13.5	12.5	12.0	10.5	8.5	6.0	8.5	6.5	8.5	7.5
16	20.5	13.0	13.5	11.5	12.0	10.0	10.0	6.0	9.0	6.5	8.5	7.5
17	20.0	13.0	13.0	11.0	12.0	8.5	9.5	6.5	9.0	6.0	8.5	7.5
18	20.0	13.5	14.0	11.5	9.5	8.5	9.5	7.0	8.5	7.0	9.0	8.5
19	16.0	13.5	13.0	11.0	10.0	9.0	9.0	6.5	10.0	8.0	9.5	8.0
20	19.0	12.5	12.0	10.5	11.0	10.0	9.0	8.0	9.0	7.0	9.0	7.5
21	19.0	12.0	12.5	10.0	11.5	7.5	10.0	7.0	9.0	6.0	7.5	7.0
22	17.0	11.5	12.0	10.0	9.0	6.5	11.5	7.0	9.5	6.0	9.0	6.5
23	18.5	12.0	12.5	10.0	9.0	5.5	11.5	8.0	10.0	7.0	8.5	7.5
24	16.5	11.5	11.5	10.0	8.0	5.0	13.0	8.0	11.5	8.0	9.5	8.0
25	16.5	12.0	13.0	10.0	8.5	5.5	10.5	9.0	9.0	8.5	9.0	7.5
26	18.0	12.0	11.0	9.5	9.0	6.5	11.0	8.0	9.0	8.5	8.5	6.5
27	14.5	13.5	11.0	10.0	9.0	6.5	9.5	6.0	9.5	9.0	10.0	6.5
28	13.5	12.0	11.5	9.0	8.0	6.0	9.0	5.0	10.0	9.0	10.0	6.5
29	15.5	11.5	10.5	8.5	6.5	6.0	9.0	4.5	---	---	12.0	7.0
30	13.5	11.5	10.5	8.0	8.5	6.0	8.5	4.0	---	---	11.0	8.0
31	15.5	11.5	---	---	7.5	5.0	5.5	4.5	---	---	11.0	8.0
MONTH	21.0	11.5	16.0	8.0	12.0	5.0	13.0	4.0	11.5	4.5	12.0	6.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	7.0	12.5	11.5	16.5	15.5	18.5	15.5	---	---	---	---
2	8.5	8.0	13.0	11.5	15.5	14.5	18.5	16.0	---	---	---	---
3	8.5	8.0	13.0	11.0	16.0	14.5	19.5	17.5	---	---	---	---
4	8.0	8.0	11.0	10.5	16.0	14.0	19.0	18.0	---	---	---	---
5	9.0	8.0	14.0	10.0	16.0	14.5	19.5	16.0	---	---	---	---
6	11.5	8.5	15.0	10.0	16.0	14.5	20.5	17.5	---	---	---	---
7	9.5	8.5	16.0	11.0	16.0	14.5	21.5	19.0	18.0	14.0	---	---
8	10.0	8.5	15.0	12.5	16.0	13.5	21.0	19.0	19.5	16.0	---	---
9	9.5	9.0	15.0	13.5	17.0	14.0	20.5	19.5	19.5	15.0	20.0	15.0
10	9.5	8.5	15.0	13.0	17.0	14.5	20.0	19.0	19.5	16.0	19.0	14.5
11	9.5	8.5	15.5	13.0	16.5	15.5	20.0	19.0	---	---	20.0	14.5
12	10.0	9.0	15.5	13.0	17.5	15.0	---	---	21.5	13.0	18.0	15.0
13	10.0	10.0	16.0	14.5	18.5	15.5	---	---	19.0	15.5	16.5	15.5
14	10.0	8.5	16.0	14.0	19.5	16.0	---	---	20.5	15.0	17.0	15.0
15	9.0	7.5	14.5	13.0	18.5	16.5	---	---	23.5	15.5	17.0	15.0
16	9.5	7.5	15.5	14.0	19.0	15.0	---	---	22.0	15.0	17.5	15.0
17	10.5	8.5	15.5	14.0	18.0	15.0	---	---	17.0	15.0	---	---
18	10.5	9.0	16.5	14.0	17.0	13.0	---	---	23.0	15.0	17.0	14.0
19	10.5	9.5	16.5	14.5	17.0	15.0	23.0	22.0	22.5	16.5	17.0	15.0
20	11.5	9.5	15.5	13.5	16.0	15.0	23.5	21.5	22.0	15.5	17.5	15.0
21	10.5	10.5	15.0	13.0	17.0	14.5	24.5	20.0	22.0	15.0	---	---
22	10.5	10.5	15.5	13.5	17.0	15.0	---	---	---	---	---	---
23	10.5	10.5	16.5	14.5	16.0	14.0	---	---	---	---	---	---
24	11.5	9.0	16.5	15.0	16.5	14.0	---	---	---	---	---	---
25	10.5	7.5	16.5	14.0	17.5	14.0	---	---	---	---	---	---
26	10.0	8.0	16.5	14.0	18.0	15.5	---	---	16.0	14.5	---	---
27	12.5	8.5	16.5	14.5	17.5	14.0	---	---	---	---	---	---
28	12.5	9.0	17.0	14.5	18.5	13.0	---	---	---	---	---	---
29	13.0	9.5	17.0	15.0	18.0	15.0	---	---	---	---	---	---
30	12.5	10.5	17.5	14.5	18.0	16.0	---	---	---	---	---	---
31	---	---	17.0	15.5	---	---	---	---	---	---	---	---
MONTH	13.0	7.0	17.5	10.0	19.5	13.0	---	---	---	---	---	---

## 11481200 LITTLE RIVER NEAR TRINIDAD, CALIF.

LOCATION.--Lat 41°00'40", long 124°04'50", in NE¼ sec.8, T.7 N., R.1 E., Humboldt County, on right bank 0.5 mi (0.8 km) upstream from Coon Creek, 4.7 mi (7.6 km) southeast of Trinidad, and 9.1 mi (14.6 km) north of Arcata.

DRAINAGE AREA.--44.4 mi<sup>2</sup> (115.0 km<sup>2</sup>).

PERIOD OF RECORD.--October 1955 to current year. Prior to October 1971, published as "at Crannell."

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 17.62 ft (5.371 m) above mean sea level.

AVERAGE DISCHARGE.--20 years, 150 ft<sup>3</sup>/s (4.248 m<sup>3</sup>/s), 108,700 acre-ft/yr (134 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 9,830 ft<sup>3</sup>/s (278 m<sup>3</sup>/s) Mar. 18 (gage height, 14.19 ft or 4.325 m), from rating curve extended as explained below; minimum daily, 4.7 ft<sup>3</sup>/s (0.13 m<sup>3</sup>/s) Sept. 26-30.

Period of record: Maximum discharge, 9,830 ft<sup>3</sup>/s (278 m<sup>3</sup>/s) Mar. 18, 1975 (gage height, 14.19 ft or 4.325 m), from rating curve extended above 3,100 ft<sup>3</sup>/s (87.8 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 14.08 ft (4.292 m); minimum daily, 2.8 ft<sup>3</sup>/s (0.079 m<sup>3</sup>/s) Oct. 20-22, 1964.

Flood of Jan. 17, 18, 1953, reached a stage of 15.7 ft (4.79 m), observed by an employee of Hammond Lumber Co.

REMARKS.--Records good except those for period of no gage-height record, which are fair. No storage or diversion above station.

REVISIONS (WATER YEARS).--WRD Calif. 1964: 1956-60.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	6.7	12	81	319	145	153	82	23	15	11	6.7
2	5.1	5.4	46	69	420	312	141	75	24	15	11	6.7
3	5.1	5.1	145	64	387	306	162	155	24	15	11	6.7
4	5.1	5.1	383	150	576	208	253	190	23	15	11	6.7
5	5.1	5.1	93	1280	350	169	219	145	23	15	11	6.4
6	5.1	5.1	56	1280	293	148	176	123	21	15	10	6.4
7	5.1	22	46	1120	222	176	157	105	21	15	10	6.4
8	5.1	21	37	1680	183	535	173	89	21	15	10	6.4
9	5.1	12	30	906	339	407	148	81	19	15	9.8	6.4
10	5.1	13	26	1370	576	306	127	84	18	15	9.6	6.1
11	5.1	10	214	483	478	236	113	91	16	14	9.3	5.8
12	5.1	8.4	319	306	895	185	93	76	17	14	9.1	5.8
13	5.1	7.5	230	227	1360	162	84	66	16	14	8.8	5.8
14	5.1	6.7	1150	181	657	141	84	61	16	14	8.6	5.8
15	5.1	6.4	399	153	391	139	75	58	15	14	8.4	5.8
16	5.4	6.4	188	130	293	299	68	54	15	14	10	5.8
17	5.4	8.4	164	111	227	1980	60	50	15	14	12	5.8
18	5.4	36	123	98	238	7860	54	46	15	14	18	5.8
19	5.4	26	96	91	2620	2100	63	41	15	14	9.0	5.8
20	5.8	14	76	82	1170	964	54	40	15	13	9.0	5.8
21	5.8	21	176	78	557	1050	49	39	16	13	7.5	5.8
22	5.8	39	181	69	360	935	47	37	15	12	7.5	5.4
23	5.8	21	125	64	280	761	50	36	15	12	6.7	5.4
24	5.8	14	93	60	224	1170	287	34	15	12	6.7	5.4
25	5.8	37	76	60	185	2370	309	30	15	12	6.7	5.1
26	6.1	28	64	105	157	800	236	29	15	12	6.7	4.7
27	6.7	23	353	73	150	506	171	27	15	12	7.5	4.7
28	40	25	253	64	150	360	134	27	15	12	12	4.7
29	18	17	145	60	---	277	111	26	15	11	9.8	4.7
30	9.5	13	123	57	---	219	94	25	15	11	8.4	4.7
31	7.9	---	96	109	---	178	---	24	---	11	7.5	---
TOTAL	221.4	468.3	5518	10661	14057	25404	3945	2046	523	419	293.6	173.5
MEAN	7.14	15.6	178	344	502	819	132	66.0	17.4	13.5	9.47	5.78
MAX	40	39	1150	1680	2620	7860	309	190	24	15	18	6.7
MIN	5.1	5.1	12	57	150	139	47	24	15	11	6.7	4.7
AC-FT	439	929	10940	21150	27880	50390	7820	4060	1040	831	582	344
CAL YR 1974	TOTAL	46767.3	MEAN	128	MAX	4170	MIN	5.1	AC-FT	92760		
WTR YR 1975	TOTAL	63729.8	MEAN	175	MAX	7860	MIN	4.7	AC-FT	126400		

Date	Time	Peak discharge (base, 3,000 ft <sup>3</sup> /s)	Date	Time	G.H.	Discharge
1-5	1830	7.84	3-18	0915	14.19	9,830
1-7	2215	7.30	3-25	0030	8.93	4,950
2-19	1245	10.11				

NOTE.--No gage-height record June 22 to Aug. 15.

## REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.

LOCATION.--Lat 40°54'22", long 123°48'51", in SE¼NE¼ sec.15, T.6 N., R.3 E., Humboldt County, on right bank 400 ft (122 m) upstream from Lupton Creek, and 9.1 mi (14.6 km) east of town of Blue Lake.

DRAINAGE AREA.--67.6 mi<sup>2</sup> (175.1 km<sup>2</sup>).

PERIOD OF RECORD.--June 1953 to September 1958, October 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.

AVERAGE DISCHARGE.--8 years, 306 ft<sup>3</sup>/s (8.666 m<sup>3</sup>/s), 221,700 acre-ft/yr (273 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 12,200 ft<sup>3</sup>/s (346 m<sup>3</sup>/s) Mar. 18 (gage height, 13.70 ft or 4.176 m), from rating curve extended above 6,400 ft<sup>3</sup>/s (181 m<sup>3</sup>/s); minimum daily, 2.7 ft<sup>3</sup>/s (0.076 m<sup>3</sup>/s) Oct. 16.  
Period of record: Maximum discharge, 12,200 ft<sup>3</sup>/s (346 m<sup>3</sup>/s) Mar. 18, 1975 (gage height, 13.70 ft or 4.176 m), from rating curve extended above 6,400 ft<sup>3</sup>/s (181 m<sup>3</sup>/s); minimum daily, 2.7 ft<sup>3</sup>/s (0.076 m<sup>3</sup>/s) Oct. 16, 1974.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	10	19	271	205	538	458	294	102	42	14	10
2	3.5	8.0	68	247	247	740	409	282	96	41	13	9.7
3	3.5	7.3	394	283	261	790	367	390	92	36	12	9.2
4	3.5	6.7	378	551	331	695	340	345	86	36	11	8.7
5	3.5	6.7	145	2250	545	585	323	310	80	35	11	7.8
6	3.5	6.2	102	2490	848	522	290	286	76	33	11	7.8
7	3.5	19	95	2580	1200	746	278	278	72	32	11	6.9
8	3.5	25	70	3140	1400	1060	263	282	69	31	12	6.9
9	3.3	14	67	1890	2450	873	248	290	66	30	12	6.9
10	3.1	13	60	2380	1820	768	230	302	62	29	12	6.9
11	3.1	10	223	1340	1270	697	223	286	59	28	11	6.4
12	3.1	9.4	402	900	2710	608	220	270	57	28	11	6.4
13	3.1	8.7	367	694	2430	550	227	286	54	27	11	6.4
14	3.1	8.0	1110	545	1470	495	237	294	53	26	10	6.4
15	3.1	8.0	681	447	919	469	220	259	51	26	10	6.4
16	2.7	7.3	416	372	675	511	207	230	49	28	9.8	5.6
17	3.1	10	331	318	539	1960	201	227	49	27	9.8	5.2
18	3.2	41	253	286	521	8360	195	223	49	26	12	4.8
19	3.1	28	220	250	3270	3410	223	217	47	25	12	4.8
20	3.1	18	205	223	1950	1390	214	195	43	25	11	5.2
21	3.1	32	279	208	1160	1440	211	169	43	24	11	5.2
22	3.1	48	250	190	850	1240	207	160	42	22	10	5.6
23	3.3	26	214	179	718	1420	230	163	43	21	9.7	5.6
24	3.5	22	193	170	627	2260	594	158	67	19	10	5.6
25	3.5	73	181	165	567	3180	596	145	50	18	9.9	5.2
26	3.5	45	176	199	500	1430	464	137	45	17	9.3	5.2
27	3.7	37	998	160	556	1120	381	134	43	16	9.3	5.2
28	34	32	639	150	651	819	340	127	42	15	15	4.8
29	23	27	426	139	---	670	315	122	41	14	13	4.8
30	11	22	391	134	---	614	302	118	41	15	11	6.4
31	10	---	306	148	---	533	---	111	---	15	10	---
TOTAL	166.8	628.3	9667	23299	30690	40493	9013	7090	1769	807	344.8	192.0
MEAN	5.38	20.9	312	752	1096	1306	300	229	59.0	26.0	11.1	6.40
MAX	34	73	1110	3140	3270	8360	596	390	102	42	15	10
MIN	2.7	6.2	19	134	205	469	195	111	41	14	9.3	4.8
AC-FT	331	1250	19170	46210	60870	80320	17880	14060	3510	1600	684	381
CAL YR 1974 TOTAL	87502.3			MEAN 240	MAX 3710	MIN 2.7	AC-FT 173600					
WTR YR 1975 TOTAL	124159.9			MEAN 340	MAX 8360	MIN 2.7	AC-FT 246300					

Peak discharge (base, 1,900 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
1-7	2030	9.59	5,620	3-18	1000	13.70	12,200
2-12	1300	8.42	3,860	3-25	0015	9.69	5,850
2-19	1430	10.47	6,950				

## 11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

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

## EXTREMES.--Current year:

Water temperatures: Maximum, 32.0°C July 28; minimum, 1.0°C Jan. 31.  
 Sediment concentrations: Maximum daily, 11,200 mg/l Mar. 18; minimum daily, 1 mg/l Aug. 20.  
 Sediment discharge: Maximum daily, 276,000 tons (250,000 tonnes) Mar. 18; minimum daily, 0.02 ton (0.02 tonne) Oct. 1-3, 16.

## Period of record:

Water temperatures: Maximum, 32.0°C July 28, 1975; minimum (1974-75), 1.0°C Jan. 31, 1975.  
 Sediment concentrations: Maximum daily, 11,200 mg/l Mar. 18, 1975; minimum daily, 1 mg/l on many days in 1973 and 1974.  
 Sediment discharge: Maximum daily, 276,000 tons (250,000 tonnes) Mar. 18, 1975; minimum daily, 0.01 ton (0.01 tonne) on many days in 1973.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCHI (COL- ONIES PER 100 ML)
JUNE				
10...	1200	66	87	86
JULY				
31...	1245	15	86	817

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

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.5	13.5	13.0	9.0	8.0	5.5	5.0	3.5	3.5	1.5	8.5	7.5
2	19.5	13.5	11.5	6.0	8.5	7.0	4.0	2.5	4.0	3.0	8.5	7.0
3	19.5	13.0	12.0	6.5	8.0	7.5	6.0	3.0	6.0	3.5	9.0	6.5
4	19.5	11.5	11.5	6.0	8.0	6.5	6.0	5.5	5.5	3.5	9.5	6.5
5	19.0	11.0	13.5	6.5	7.5	6.0	7.0	5.5	5.5	4.5	8.0	6.5
6	19.5	11.0	13.0	6.5	8.5	6.5	8.0	7.0	7.5	5.0	9.5	7.5
7	19.0	11.0	11.5	6.0	8.5	6.5	8.0	7.5	7.0	6.0	9.0	7.5
8	17.5	11.5	11.0	6.0	7.5	5.5	7.5	5.5	7.5	6.0	7.5	6.5
9	18.5	11.5	10.5	6.0	8.5	6.5	6.0	5.0	6.5	5.5	8.0	6.0
10	18.0	11.5	12.5	6.0	8.0	6.5	7.5	6.0	7.5	5.5	7.5	6.0
11	18.5	10.5	12.5	7.5	9.0	7.5	7.5	6.0	7.5	6.5	9.0	6.0
12	18.5	11.0	12.0	8.0	9.5	7.5	7.0	6.0	7.0	7.0	8.5	5.5
13	18.5	11.0	12.5	7.5	8.5	7.0	7.0	6.0	7.5	6.5	7.0	6.0
14	18.5	11.0	12.5	8.5	9.5	8.0	6.5	5.0	7.0	6.0	8.5	5.0
15	18.5	11.5	12.5	10.0	10.0	9.0	7.0	5.0	7.0	5.0	6.5	5.5
16	18.0	11.0	10.5	9.0	9.5	7.5	7.0	5.5	6.5	5.0	6.5	3.5
17	17.5	10.5	11.0	8.5	8.5	6.5	7.5	5.5	6.5	4.5	6.0	5.0
18	17.5	11.0	10.5	9.5	7.5	5.0	7.5	5.5	8.0	5.5	7.0	6.0
19	16.5	11.0	10.5	8.0	7.5	6.0	8.0	5.5	8.0	6.0	7.0	6.0
20	15.5	11.5	9.5	8.0	9.5	7.5	7.5	6.0	7.0	5.5	7.0	5.0
21	15.0	9.0	11.0	8.0	9.0	6.5	7.5	5.5	7.0	4.5	---	---
22	15.0	9.0	9.5	7.0	6.5	5.0	8.0	6.0	7.5	5.0	6.5	4.0
23	14.0	9.0	10.5	7.0	5.5	3.5	9.0	6.5	8.5	5.5	6.5	5.5
24	14.0	9.0	10.0	6.5	4.5	3.0	9.5	7.0	9.0	6.0	7.0	6.0
25	14.0	9.0	9.5	8.0	4.5	3.0	9.5	8.0	9.5	6.5	7.5	5.5
26	12.5	9.0	9.0	6.5	6.5	4.0	8.0	4.5	8.0	6.5	7.0	4.5
27	13.5	11.0	10.0	7.5	7.0	5.5	5.0	3.5	9.0	8.0	8.5	5.0
28	12.5	10.5	8.5	6.5	5.5	4.0	5.0	3.0	10.0	7.5	8.0	4.0
29	13.0	9.5	7.5	5.0	5.0	3.0	4.5	2.0	---	---	10.0	5.0
30	12.5	9.0	7.5	4.5	5.5	4.0	4.0	1.5	---	---	9.5	6.0
31	13.5	10.5	---	---	4.5	3.0	3.0	1.0	---	---	9.0	5.5
MONTH	21.5	9.0	13.5	4.5	10.0	3.0	9.5	1.0	10.0	1.5	10.0	3.5

## REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	5.0	13.0	7.5	19.0	14.5	18.0	13.0	26.5	16.5	23.0	14.5
2	7.5	5.0	12.5	8.0	20.0	13.5	19.0	12.5	27.0	17.5	23.5	14.5
3	6.5	5.0	10.0	6.0	21.0	13.5	24.0	13.5	27.5	17.5	24.5	15.5
4	7.5	3.5	8.0	5.0	22.0	13.5	21.5	14.5	26.5	16.0	25.0	16.5
5	7.0	4.0	10.0	6.0	22.5	14.5	23.0	15.0	26.0	16.0	25.0	16.5
6	8.5	4.5	12.0	6.5	21.5	14.0	24.0	14.5	21.0	16.0	25.0	16.5
7	7.0	5.0	13.0	7.5	21.5	14.0	23.5	15.5	24.5	15.0	24.0	16.5
8	9.0	5.0	14.5	8.0	21.5	13.0	24.5	16.0	25.5	16.0	25.0	16.0
9	8.5	5.0	13.5	8.5	23.0	13.5	24.5	16.0	26.0	16.5	21.5	18.0
10	9.5	5.5	11.0	9.0	23.5	15.0	24.5	16.0	26.0	17.5	23.0	17.0
11	11.0	5.0	14.5	8.5	23.0	15.0	25.0	16.0	27.0	17.5	24.5	17.0
12	12.0	5.5	16.0	8.0	24.0	15.0	24.5	15.5	27.0	18.5	24.5	17.0
13	9.5	6.5	17.0	9.5	24.5	16.0	25.5	14.5	26.5	18.0	24.5	17.5
14	7.5	5.5	12.0	10.0	25.5	16.5	23.0	14.0	26.0	17.5	24.0	17.5
15	7.5	4.0	11.5	9.0	25.0	17.0	19.0	16.5	25.5	17.0	23.5	17.5
16	9.0	4.0	15.5	9.0	23.0	15.5	23.5	16.5	25.5	17.0	24.5	17.0
17	10.0	5.0	16.5	9.5	17.0	14.0	24.5	15.5	20.0	18.5	24.0	16.0
18	10.0	5.5	16.5	9.5	20.5	12.0	25.5	16.0	25.5	18.0	23.0	15.5
19	10.0	7.0	13.5	9.5	21.5	14.0	26.0	15.0	24.5	16.5	22.0	16.5
20	12.0	5.5	13.5	7.0	22.5	14.0	26.5	17.0	25.5	16.5	23.0	16.0
21	12.0	6.0	15.0	7.0	22.0	14.5	28.5	17.0	25.5	17.5	22.5	16.0
22	9.5	7.0	16.0	8.5	20.5	14.0	30.0	13.5	25.0	17.5	22.5	16.5
23	9.5	7.0	17.0	10.0	15.5	13.5	30.5	11.0	21.0	18.0	22.0	14.0
24	8.5	6.0	16.5	10.0	15.0	12.0	30.0	12.0	26.5	18.0	22.5	14.0
25	6.5	4.5	17.0	9.0	17.0	11.0	31.5	11.0	25.0	16.5	22.5	14.0
26	7.5	5.0	18.0	11.0	20.0	13.5	31.5	13.5	24.5	16.5	22.5	14.5
27	9.5	6.0	18.5	10.5	20.5	12.5	30.5	14.0	23.0	17.0	22.5	14.5
28	11.5	5.5	19.5	11.0	20.5	12.5	32.0	13.0	21.0	17.0	22.0	14.5
29	12.0	5.5	20.5	12.0	20.5	12.5	21.0	13.0	21.5	15.5	22.0	13.5
30	12.5	7.0	22.0	13.5	16.0	14.0	24.5	15.5	20.5	15.5	21.5	14.0
31	---	---	22.0	14.0	---	---	25.5	16.0	22.5	15.0	---	---
MONTH	12.5	3.5	22.0	5.0	25.5	11.0	32.0	11.0	27.5	15.0	25.0	13.5

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	3.5	2	.02	10	3	.08	19	3	.15
2	3.5	2	.02	8.0	3	.06	68	19	6.3
3	3.5	2	.02	7.3	3	.06	394	262	642
4	3.5	3	.03	6.7	3	.05	378	220	225
5	3.5	3	.03	6.7	3	.05	145	60	23
6	3.5	3	.03	6.2	3	.05	102	37	10
7	3.5	3	.03	19	4	.21	95	22	5.6
8	3.5	3	.03	25	4	.27	78	20	4.2
9	3.3	3	.03	14	3	.11	67	16	2.9
10	3.1	3	.03	13	3	.11	60	15	2.4
11	3.1	3	.03	10	3	.08	223	65	47
12	3.1	3	.03	9.4	3	.08	402	153	241
13	3.1	3	.03	8.7	3	.07	367	105	104
14	3.1	3	.03	8.0	2	.04	1110	637	2650
15	3.1	3	.03	8.0	3	.06	681	275	506
16	2.7	3	.02	7.3	3	.06	416	95	107
17	3.1	3	.03	10	4	.11	331	75	67
18	3.2	3	.03	41	6	.66	253	50	34
19	3.1	5	.04	28	4	.30	220	40	24
20	3.1	3	.03	18	3	.15	205	40	22
21	3.1	3	.03	32	8	.69	279	88	73
22	3.1	3	.03	48	10	1.3	250	73	49
23	3.3	3	.03	26	3	.21	214	65	38
24	3.5	3	.03	22	3	.18	193	60	31
25	3.5	3	.03	73	20	3.9	181	45	22
26	3.5	3	.03	45	10	1.2	176	30	14
27	3.7	7	.07	37	4	.40	998	726	2500
28	34	17	2.1	32	3	.26	639	300	518
29	23	5	.31	27	3	.22	426	125	144
30	11	3	.09	22	3	.18	391	100	106
31	10	---	---	---	---	---	306	45	37
MONTH	166.8	---	3.32	628.3	---	11.20	9667	---	8255.55



11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	271	45	33	205	26	16	538	240	349
2	247	45	30	247	22	15	740	350	699
3	283	40	31	261	40	35	790	240	512
4	551	161	259	331	45	40	695	200	375
5	2250	2140	21600	545	169	309	585	180	284
6	2490	1500	10100	848	210	533	522	160	226
7	2580	2080	23600	1200	160	518	746	214	507
8	3140	1980	16800	1400	380	1440	1060	441	1270
9	1890	1270	8000	2450	2360	16200	873	320	754
10	2380	1500	9640	1820	1610	7910	768	260	539
11	1340	680	2460	1270	830	2850	697	230	433
12	900	590	1430	2710	2780	23300	608	210	345
13	694	530	993	2430	2400	15700	550	200	297
14	545	500	736	1470	1520	6030	495	200	267
15	447	460	555	919	1140	2830	469	200	253
16	372	430	432	675	780	1420	511	210	290
17	318	390	335	539	400	582	1960	2420	25900
18	286	360	278	521	200	281	8360	11200	276000
19	250	320	216	3270	4610	57500	3410	3500	32200
20	223	290	175	1950	2650	13900	1390	1500	5630
21	208	250	140	1160	1050	3290	1440	1130	4790
22	190	210	108	850	750	1720	1240	760	2540
23	179	170	82	718	650	1260	1420	1000	3830
24	170	130	60	627	550	931	2260	1980	20300
25	165	90	40	567	450	689	3180	3600	36700
26	199	46	25	500	290	401	1430	1000	3860
27	160	28	12	556	320	480	1120	690	2090
28	150	24	9.7	651	300	527	819	530	1170
29	139	21	7.9	---	---	---	670	430	778
30	134	17	6.2	---	---	---	614	350	580
31	148	17	6.8	---	---	---	533	290	417
MONTH	23299	---	98200.6	30690	---	160707	40493	---	424185
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	458	220	272	294	85	67	102	12	3.3
2	409	210	232	282	85	65	96	12	3.1
3	367	190	188	390	190	204	92	12	3.0
4	340	180	165	345	105	98	86	12	2.8
5	323	160	140	310	70	59	80	12	2.6
6	290	150	117	286	50	39	76	12	2.5
7	278	140	105	278	47	35	72	12	2.3
8	263	130	92	282	45	34	69	11	2.1
9	248	120	80	290	42	33	66	11	2.0
10	230	110	68	302	55	45	62	11	1.8
11	223	100	60	286	48	37	59	11	1.8
12	220	90	53	270	40	29	57	10	1.5
13	227	80	49	286	38	29	54	10	1.5
14	237	70	45	294	36	29	53	10	1.4
15	220	60	36	259	34	24	51	10	1.4
16	207	50	28	230	32	20	49	9	1.2
17	201	45	24	227	30	18	49	9	1.2
18	195	45	24	223	27	16	49	9	1.2
19	223	40	24	217	26	15	47	8	1.0
20	214	40	23	195	25	13	43	7	.81
21	211	40	23	169	24	11	43	6	.70
22	207	40	22	160	23	9.9	42	5	.57
23	230	40	25	163	22	9.7	43	4	.46
24	594	250	401	158	21	9.0	67	15	2.7
25	596	110	177	145	20	7.8	50	15	2.0
26	464	85	106	137	19	7.0	45	7	.85
27	381	85	87	134	18	6.5	43	6	.70
28	340	85	78	127	16	5.5	42	5	.57
29	315	85	72	122	14	4.6	41	4	.44
30	302	85	69	118	13	4.1	41	4	.44
31	---	---	---	111	12	3.6	---	---	---
MONTH	9013	---	2885	7090	---	987.7	1769	---	47.94

## REDWOOD CREEK BASIN

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	42	4	.45	14	3	.11	10	3	.08
2	41	4	.44	13	3	.11	9.7	3	.08
3	36	4	.39	12	3	.10	9.2	3	.07
4	36	4	.39	11	3	.09	8.7	3	.07
5	35	4	.38	11	3	.09	7.8	3	.06
6	33	4	.36	11	3	.09	7.8	3	.06
7	32	4	.35	11	3	.09	6.9	3	.06
8	31	4	.33	12	3	.10	6.9	3	.06
9	30	4	.32	12	4	.13	6.9	3	.06
10	29	4	.31	12	4	.13	6.9	3	.06
11	28	4	.30	11	5	.15	6.4	3	.05
12	28	4	.30	11	3	.09	6.4	3	.05
13	27	4	.29	11	2	.06	6.4	3	.05
14	26	4	.28	10	4	.11	6.4	3	.05
15	26	4	.28	10	3	.08	6.4	3	.05
16	28	4	.30	9.8	3	.08	5.6	3	.05
17	27	4	.29	9.8	4	.11	5.2	3	.04
18	26	4	.28	12	3	.10	4.8	3	.04
19	25	4	.27	12	2	.06	4.8	3	.04
20	25	4	.27	11	1	.03	5.2	3	.04
21	24	3	.19	11	2	.06	5.2	3	.04
22	22	3	.18	10	3	.08	5.6	3	.05
23	21	3	.17	9.7	3	.08	5.6	3	.05
24	19	3	.15	10	3	.08	5.6	3	.05
25	18	3	.15	9.9	3	.08	5.2	3	.04
26	17	3	.14	9.3	3	.08	5.2	3	.04
27	16	3	.13	9.3	3	.08	5.2	3	.04
28	15	3	.12	15	3	.12	4.8	3	.04
29	14	3	.11	13	3	.11	4.8	3	.04
30	15	3	.12	11	3	.09	6.4	3	.05
31	15	3	.12	10	3	.08	---	---	---
MONTH	807	---	8.16	344.8	---	2.85	192.0	---	1.56
YEAR 124159.9			695295.88						

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BEDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1974	166.80	3.32	0	3
NOVEMBER ...	628.30	11.20	0	11
DECEMBER ...	9667.00	8255.55	8090	16300
JANUARY 1975	23299.00	98200.60	57600	156000
FEBRUARY ...	30690.00	160707.00	77300	238000
MARCH .....	40493.00	424185.00	96400	521000
APRIL .....	9013.00	2885.00	3310	6200
MAY .....	7090.00	987.70	1160	2150
JUNE .....	1769.00	47.94	0	48
JULY .....	807.00	8.16	0	8
AUGUST .....	344.80	2.85	0	3
SEPTEMBER ..	192.00	1.56	0	2
TOTAL .....	124159.90	695295.88	243860	939725

11481500 REDWOOD CREEK NEAR BLUE LAKE, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT 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.											
03...	1600	--	426	185	213	--	--	--	--	--	--
04...	1200	8.0	327	192	170	--	--	--	--	--	--
18...	1500	5.0	261	44	31	--	--	--	--	--	--
FEB.											
19...	1420	8.0	6560	11800	209000	14	19	27	36	46	--
26...	0850	--	522	298	420	--	--	--	--	--	--
MAR.											
19...	1330	7.0	2520	3120	21200	15	21	28	36	44	--
20...	1205	6.5	1400	1360	5150	21	31	43	54	64	74
APR.											
01...	1425	8.5	479	218	282	--	--	--	--	--	--
MAY											
03...	1800	--	385	186	193	--	--	--	--	--	--

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.										
03...	39	--	47	--	58	--	82	--	96	100
04...	70	--	95	--	100	--	--	--	--	--
18...	68	--	70	--	78	--	86	--	97	100
FEB.										
19...	53	--	64	--	76	--	87	--	94	98
26...	41	--	44	--	50	--	63	--	87	100
MAR.										
19...	49	--	56	--	64	--	76	--	86	96
20...	--	80	--	89	--	99	--	100	--	--
APR.										
01...	73	--	76	--	80	--	85	--	94	100
MAY										
03...	94	--	97	--	99	--	100	--	--	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
JAN.								
29...	1110	2.0	--	139	67	.00	--	--
MAR.								
20...	1210	6.5	5	1320	97	5270	1	5
APR.								
01...	1415	8.5	17	479	79	618	1	3
JUNE								
02...	1400	19.0	--	98	23	.00	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM
JAN.							
29...	--	--	--	--	--	--	--
MAR.							
20...	17	35	52	67	79	89	100
APR.							
01...	12	30	49	69	86	95	100
JUNE							
02...	--	--	--	--	--	--	--

## REDWOOD CREEK BASIN

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.

LOCATION.--Lat 41°10'19", long 123°56'55", in SE¼NE¼ sec.16, T.9 N., R.2 E., Humboldt County, Redwood National Park (south boundary), on left bank 150 ft (46 m) downstream from Slide Creek, 8.6 mi (13.8 km) southeast of Orick, and 17 mi (27 km) upstream from mouth.

DRAINAGE AREA.--185 mi<sup>2</sup> (479 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Altitude of gage is 240 ft (73 m), from topographic map. Prior to Aug. 3, 1973, at different datum.

AVERAGE DISCHARGE.--5 years, 919 ft<sup>3</sup>/s (26.03 m<sup>3</sup>/s), 66,580 acre-ft/yr (82.1 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 33,000 ft<sup>3</sup>/s (935 m<sup>3</sup>/s) Mar. 18 (gage height, unknown), from rating curve extended above 11,000 ft<sup>3</sup>/s (312 m<sup>3</sup>/s); minimum daily, 4.5 ft<sup>3</sup>/s (0.13 m<sup>3</sup>/s) Oct. 17-21, 23-26. Period of record: Maximum discharge, 33,000 ft<sup>3</sup>/s (935 m<sup>3</sup>/s) Mar. 18, 1975 (gage height, unknown), from rating curve extended above 11,000 ft<sup>3</sup>/s (312 m<sup>3</sup>/s); maximum gage height recorded, 29.36 ft (8.949 m) Mar. 2, 1972, datum then in use; minimum daily discharge, 4.5 ft<sup>3</sup>/s (0.13 m<sup>3</sup>/s) Oct. 17-21, 23, 26, 1974.

REMARKS.--Records good except those for periods of no gage-height record, which are fair. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.5	21	61	558	668	1380	1170	770	206	78	31	22
2	5.2	18	142	472	1130	2070	1040	745	199	78	29	22
3	5.2	16	633	459	1110	2150	1170	1000	196	74	27	21
4	5.2	15	1740	1070	1510	1720	1220	1020	178	71	25	20
5	4.7	14	549	3840	1950	1580	1170	906	173	70	24	19
6	4.7	15	299	6570	2290	1470	1100	829	166	67	24	17
7	4.7	25	237	5090	2470	1550	1060	788	159	63	25	16
8	4.7	62	184	8100	2310	2420	1060	756	153	61	25	16
9	4.7	49	152	5400	4260	2100	982	738	140	61	24	16
10	4.7	42	123	6600	4700	1840	913	749	133	57	23	16
11	4.7	37	623	4400	3480	1660	859	767	119	55	23	15
12	4.7	31	1030	2400	5950	1500	821	685	116	55	22	15
13	4.7	27	1290	1750	6940	1400	792	635	113	51	20	15
14	4.7	23	3090	1340	4370	1330	799	585	113	51	19	15
15	4.7	21	2350	1100	3000	1310	770	540	102	51	18	15
16	4.7	26	1290	940	2220	1510	745	515	99	54	18	15
17	4.5	29	1040	840	1780	5380	703	480	99	54	21	15
18	4.5	134	816	709	1670	24700	651	450	97	49	30	14
19	4.5	111	678	618	8170	11000	602	420	95	47	26	14
20	4.5	77	572	540	6870	6000	661	395	95	45	24	14
21	4.5	79	811	476	3950	5000	644	371	89	43	23	14
22	4.8	164	816	422	2780	5400	624	350	84	42	23	15
23	4.5	102	663	375	2120	4500	699	328	85	40	22	14
24	4.5	81	595	346	1760	5000	1380	311	117	37	22	13
25	4.5	252	507	342	1550	9500	1630	300	108	36	21	13
26	4.5	140	459	468	1370	5100	1290	282	94	35	20	12
27	4.9	93	1950	353	1380	3530	1100	270	85	33	20	12
28	66	85	1670	309	1470	2620	954	251	81	32	29	12
29	72	75	1040	285	---	2010	859	242	78	31	33	12
30	38	61	897	268	---	1700	803	231	75	33	28	12
31	26	---	704	335	---	1350	---	218	---	33	24	---
TOTAL	329.7	1925	27011	56775	83228	119780	28351	16927	3647	1587	743	461
MEAN	10.6	64.2	871	1831	2972	3864	945	546	122	51.2	24.0	15.4
MAX	72	252	3090	8100	8170	24700	1630	1020	206	78	33	22
MIN	4.5	14	61	268	668	1310	624	218	75	31	18	12
AC-FT	654	3820	53580	112600	165100	237600	56230	33570	7230	3150	1470	914
CAL YR 1974	TOTAL	243333.2	MEAN 667	MAX 11700	MIN 4.5	AC-FT 482700						
WTR YR 1975	TOTAL	340764.7	MEAN 934	MAX 24700	MIN 4.5	AC-FT 675900						

Date	Time	Peak discharge (base, 5,900 ft <sup>3</sup> /s)		Date	Time	G.H.	Discharge
1-7	0015	15.30	10,800	3-18	unknown	--	33,000
2-12	1600	13.56	8,110	3-25	unknown	--	14,000
2-19	1645	18.02	15,900				

NOTE.--No gage-height record Oct. 5, to Nov. 13, Mar. 18 to Apr. 4.

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1971 to current year (partial-record station).  
 Water temperatures: October 1973 to current year.  
 Sediment records: Water years 1971 to current year (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 21.0°C on several days during June and July.

Period of record:

Water temperatures: Maximum, 27.5°C June 29, 1974; minimum (1973-74), 3.5°C Jan. 10, 1974.

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)
JUNE											
03...	1415	195	5.4	30	80	18	2.0	2.8	.7	57	0
10...	1145	137	5.5	30	30	21	1.7	3.2	.7	63	0
JULY											
31...	1210	33	--	--	--	--	--	--	--	--	--

DATE	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)
JUNE											
03...	47	12	2.2	.01	.00	.01	.01	.01	.02	.02	.01
10...	52	14	2.4	.00	.00	.00	.00	.02	.02	.00	.02
JULY											
31...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)
JUNE											
03...	71	.10	37.4	53	6	10	.2	123	7.4	19.0	--
10...	80	.11	29.6	59	8	10	.2	137	7.3	19.5	--
JULY											
31...	--	--	--	--	--	--	--	187	--	--	2

DATE	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
JUNE										
03...	8.7	3.6	--	--	1.6	.1	1	0	4	0
10...	8.5	5.1	88	84	.6	.1	0	0	0	0
JULY										
31...	--	--	82	88	--	--	--	--	--	--

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

## REDWOOD CREEK BASIN

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	11.5	10.0	--	--	--	--	--	--	--	--	10.0	9.0
2	11.0	10.0	--	--	--	--	--	--	--	--	9.0	8.5
3	11.0	9.5	--	--	--	--	--	--	--	--	9.0	7.5
4	11.0	9.5	--	--	--	--	--	--	--	--	9.5	7.5
5	9.5	8.0	--	--	--	--	--	--	6.0	--	9.0	7.5
6	10.5	9.0	--	--	--	--	--	--	7.0	--	9.5	8.0
7	11.0	10.5	--	--	--	--	--	--	8.0	--	9.5	8.5
8	11.0	10.5	--	--	--	--	--	--	--	--	9.0	8.0
9	11.5	10.5	--	--	--	--	--	--	7.0	--	8.5	7.0
10	10.5	9.0	--	--	--	--	--	--	--	--	8.5	7.5
11	10.5	9.0	--	--	--	--	--	--	--	--	8.5	7.0
12	10.5	9.5	--	--	--	--	--	--	8.5	--	8.5	6.5
13	10.5	9.5	--	11.0	--	--	--	--	8.0	--	8.0	7.0
14	--	--	--	--	--	--	--	--	6.5	--	8.5	6.0
15	--	--	--	--	--	--	--	--	--	--	8.0	6.5
16	--	--	--	--	--	--	--	--	--	--	7.0	5.5
17	--	--	--	--	--	--	7.0	--	--	--	7.5	6.5
18	--	--	--	--	--	--	--	--	--	--	8.5	7.5
19	--	--	--	--	--	--	--	--	--	--	8.0	7.5
20	--	--	--	10.5	--	--	--	--	--	--	7.5	6.5
21	--	--	--	11.0	--	--	--	--	--	8.0	--	7.0
22	--	--	--	9.5	--	--	--	--	--	--	7.0	6.0
23	--	--	--	--	--	--	--	--	--	--	7.5	6.5
24	--	--	--	--	--	--	--	--	--	--	8.0	7.5
25	--	--	--	--	--	--	--	--	--	--	8.0	7.0
26	--	--	--	--	--	--	--	--	--	--	7.5	6.0
27	--	--	--	--	--	--	--	--	8.5	--	8.5	6.5
28	--	--	--	--	--	--	--	--	10.0	9.0	8.5	5.5
29	--	--	--	--	--	--	--	--	--	--	9.5	6.0
30	--	--	--	--	--	--	--	--	--	--	9.5	7.5
31	--	--	--	--	--	--	--	--	--	--	9.0	7.0
MONTH	--	--	--	--	--	--	--	--	--	--	10.0	5.5

DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	9.0	6.5	12.5	9.0	19.5	17.0	16.0	15.0	20.0	19.0	17.5	17.0
2	8.0	6.5	12.5	10.0	18.5	16.0	16.0	15.0	20.0	19.5	17.5	17.0
3	7.5	6.5	12.0	9.0	19.0	16.5	17.5	16.0	20.0	19.5	18.5	17.5
4	7.5	5.0	9.0	7.0	19.5	16.0	17.5	17.5	20.0	19.5	19.0	18.0
5	7.5	6.0	11.0	7.5	20.0	17.0	18.5	17.5	19.5	19.5	19.0	18.0
6	9.0	6.0	12.0	8.5	19.5	17.0	19.0	18.0	19.5	19.0	19.0	18.5
7	8.0	6.5	13.0	9.0	19.0	16.5	19.0	18.5	19.0	18.0	18.5	18.0
8	9.5	6.5	14.0	10.0	19.0	16.0	19.0	18.5	18.5	18.0	18.5	18.0
9	8.5	7.0	13.0	10.5	20.0	16.5	19.0	18.5	19.0	18.5	18.5	18.0
10	9.0	7.0	12.5	10.5	21.0	17.5	19.0	19.0	19.0	18.5	18.0	18.0
11	10.5	7.0	14.0	10.0	21.0	18.0	19.0	19.0	19.5	18.5	18.0	18.0
12	11.5	7.0	15.5	10.5	20.5	17.5	19.0	19.0	19.5	19.0	18.0	18.0
13	10.5	8.5	16.5	12.0	21.0	18.5	19.0	18.5	19.5	19.0	18.0	18.0
14	9.5	8.0	15.0	11.5	21.0	19.0	19.0	18.5	19.0	19.0	18.0	18.0
15	9.0	6.0	13.0	10.5	21.0	19.0	18.5	18.5	19.0	19.0	18.0	18.0
16	9.0	5.5	15.5	11.0	20.5	18.5	19.0	18.5	19.0	19.0	18.0	18.0
17	10.0	6.5	16.5	12.0	19.5	18.0	19.0	19.0	19.0	19.0	18.0	17.5
18	10.0	7.5	16.5	12.5	18.0	16.5	19.5	19.0	19.0	19.0	17.5	17.0
19	10.0	8.5	15.0	12.5	18.0	17.0	19.5	19.5	19.0	18.5	17.0	17.0
20	11.5	7.5	14.0	9.5	18.0	17.0	19.5	19.5	19.0	18.5	17.0	17.0
21	11.5	8.0	14.5	10.0	18.0	17.5	20.0	19.5	19.0	19.0	17.0	17.0
22	11.0	9.0	15.5	10.5	18.0	17.5	20.0	19.5	19.0	19.0	17.0	17.0
23	10.0	8.5	16.0	12.0	17.5	17.0	20.5	20.0	19.0	18.5	17.0	16.5
24	10.0	8.5	16.5	12.0	17.0	15.5	20.5	20.0	19.0	18.5	16.5	16.5
25	8.5	6.5	16.5	11.0	16.5	14.5	20.5	20.0	19.0	18.5	16.5	16.0
26	8.5	6.5	17.5	13.0	17.0	16.0	21.0	20.5	19.0	18.5	16.5	16.5
27	10.0	7.0	18.0	13.0	17.0	16.0	21.0	20.5	18.5	18.5	16.5	16.5
28	11.0	7.5	18.5	13.5	17.5	16.0	20.5	20.5	18.5	18.5	16.5	16.5
29	11.5	7.5	19.5	14.5	17.5	16.0	20.5	20.5	18.5	18.0	16.5	16.0
30	12.0	9.0	20.5	15.5	17.0	16.0	20.5	19.0	18.0	18.0	16.0	16.0
31	--	--	20.0	17.0	--	--	19.0	18.5	18.0	17.5	--	--
MONTH	12.0	5.0	20.5	7.0	21.0	14.5	21.0	15.0	20.0	17.5	19.0	16.0

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.--Continued

## SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT CHARGE (T/DAY)
NOV.					
07...	0135	11.5	18	3	.1
07...	1315	12.0	57	106	16
08...	1010	9.5	67	9	1.6
13...	1425	11.0	26	4	.2
21...	0015	10.5	63	6	1.0
21...	1430	11.0	67	17	3.1
21...	1530	11.0	72	30	5.8
21...	1630	10.5	80	50	11
21...	2030	10.0	102	97	27
22...	1115	9.5	212	193	111
JAN.					
17...	1320	7.0	837	132	298
FEB.					
05...	1745	6.0	3000	1710	13900
06...	1215	7.0	2030	739	4050
06...	1710	8.0	2150	570	3310
07...	1155	7.0	2580	1060	7380
09...	0810	7.0	4770	2830	36500
12...	1525	8.5	8130	3830	84100
13...	1330	8.0	7190	1910	37100
13...	1630	8.0	6450	1490	25900
14...	1130	6.5	4360	1470	17300
21...	1415	8.0	3730	1410	14200
27...	1405	8.5	1390	315	1180
MAR.					
19...	1530	8.0	E8200	4920	109000
APR.					
04...	1400	6.5	1220	550	1810
JUNE					
06...	1400	19.0	171	27	12
10...	1145	19.5	137	31	11
JULY					
30...	1345	--	34	14	1.3
31...	0010	--	33	8	.7
31...	1210	--	33	10	.8

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT CHARGE (MG/L)	SUS- PENDE SEDIM- ENT 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
JAN.											
17...	1320	7.0	837	132	298	--	--	--	--	--	--
FEB.											
06...	1215	7.0	2030	739	4050	15	17	23	29	34	--
07...	1155	7.0	2580	1060	7380	14	18	25	33	39	--
12...	1525	8.5	8130	3830	84100	16	24	33	46	59	68
13...	1330	8.0	7190	1910	37100	15	21	29	38	48	--
13...	1630	8.0	6450	1490	25900	16	24	34	45	58	68
14...	1130	6.5	4360	1470	17300	12	17	22	27	34	--
21...	1415	8.0	3730	1410	14200	13	18	24	31	37	--
27...	1405	8.5	1390	315	1180	28	34	44	52	63	--
MAR.											
19...	1530	8.0	E8200	4920	109000	16	22	30	40	50	58
APR.											
04...	1400	6.5	1220	550	1810	13	19	27	35	40	--
SUS. SED. SIEVE DIAM. % FINER THAN											
.062 MM .125 MM .125 MM .250 MM .250 MM .500 MM .500 MM 1.00 MM 1.00 MM 2.00 MM											
JAN.											
17...	85	--	89	--	95	--	100	--	--	--	--
FEB.											
06...	38	--	43	--	52	--	65	--	79	88	88
07...	45	--	49	--	57	--	72	--	88	99	99
12...	--	80	--	90	--	99	--	100	--	--	--
13...	54	--	63	--	73	--	83	--	93	97	97
13...	--	81	--	90	--	98	--	100	--	--	--
14...	39	--	47	--	58	--	69	--	84	94	94
21...	42	--	50	--	62	--	75	--	92	99	99
27...	69	--	75	--	82	--	89	--	95	100	100
MAR.											
19...	--	68	--	82	--	94	--	100	--	--	--
APR.											
04...	43	--	49	--	55	--	66	--	84	100	100

E Estimated.

## REDWOOD CREEK BASIN

11482200 REDWOOD CREEK AT SOUTH PARK BOUNDARY, NEAR ORICK, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM
NOV. 13...	1425	11.0	--	26	--	.00	--	--	--
FEB. 07...	1115	--	4	2600	127	4620	--	--	1
09...	1010	7.0	5	4610	140	6900	--	--	2
13...	1400	8.0	5	7180	148	3430	--	--	2
27...	1430	--	5	1400	116	130	--	--	1
MAR. 19...	1615	--	5	8140	152	8410	1	1	7

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	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
NOV. 13...	--	--	--	--	--	--	--	--	--
FEB. 07...	4	15	32	48	66	82	92	100	--
09...	6	15	30	52	74	89	95	99	100
13...	10	24	40	56	72	88	97	100	--
27...	7	21	37	59	83	96	100	--	--
MAR. 19...	19	31	46	63	79	86	94	100	--



11482468 LITTLE LOST MAN CREEK AT SITE NO. 2, NEAR ORICK, CALIF.

LOCATION.--Lat 41°19'20", long 124°01'10", in NE¼SE¼ sec.23, T.11 N., R.1 E., Humboldt County, Redwood National Park, on right bank 0.8 mi (1.3 km) upstream from mouth, and 3.2 mi (5.1 km) northeast of Orick.

DRAINAGE AREA.--3.46 mi<sup>2</sup> (8.96 km<sup>2</sup>).

PERIOD OF RECORD.--June 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft (15 m), from topographic map.

EXTREMES.--June to September 1974: Maximum daily discharge, 0.74 ft<sup>3</sup>/s (0.021 m<sup>3</sup>/s) June 27; minimum daily, 0.18 ft<sup>3</sup>/s (0.005 m<sup>3</sup>/s) Sept. 26-30.

Water year 1975: Maximum discharge, 808 ft<sup>3</sup>/s (22.9 m<sup>3</sup>/s) Mar. 18 (gage height, 4.32 ft or 1.317 m); minimum daily, 0.13 ft<sup>3</sup>/s (0.004 m<sup>3</sup>/s) Oct. 19-21.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1973 TO SEPTEMBER 1974  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									---	.65	.36	.25
2									---	.65	.36	.25
3									---	.63	.36	.25
4									---	.60	.34	.25
5									---	.57	.32	.25
6									---	.55	.32	.26
7									---	.55	.32	.29
8									---	.68	.34	.29
9									---	.71	.34	.32
10									---	.60	.34	.34
11									---	.57	.34	.31
12									---	.55	.32	.28
13									---	.50	.32	.25
14									---	.50	.29	.24
15									---	.47	.29	.20
16									---	.47	.29	.20
17									---	.45	.29	.20
18									---	.45	.29	.20
19									---	.45	.29	.20
20									---	.45	.29	.20
21									---	.43	.29	.20
22									---	.43	.29	.20
23									---	.41	.28	.20
24									---	.39	.26	.20
25									---	.39	.26	.20
26									---	.37	.26	.19
27									---	.74	.37	.18
28									---	.71	.36	.18
29									---	.68	.36	.18
30									---	.68	.36	.18
31									---	.36	.26	---
TOTAL									---	15.28	9.35	6.94
MEAN									---	.49	.30	.23
MAX									---	.71	.36	.34
MIN									---	.36	.26	.18
AC-FT									---	30	19	14

## REDWOOD CREEK BASIN

11482468 LITTLE LOST MAN CREEK AT SITE NO. 2, NEAR ORICK, CALIF.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.17	.33	.64	13	23	12	12	12	2.7	1.3	.53	.35
2	.15	.28	2.4	11	30	18	11	11	2.7	1.3	.48	.35
3	.15	.24	14	10	34	21	13	17	2.7	1.3	.48	.35
4	.15	.22	24	17	47	19	22	18	2.4	1.3	.44	.32
5	.14	.19	10	53	41	15	23	17	2.4	1.1	.44	.32
6	.14	.18	5.2	72	38	12	20	15	2.4	1.1	.44	.28
7	.14	1.1	3.1	60	30	12	18	14	2.3	1.0	.48	.28
8	.14	.78	2.6	85	26	31	17	12	2.1	1.0	.44	.28
9	.14	.50	2.2	68	40	38	16	11	2.0	1.0	.44	.28
10	.14	.50	2.0	86	49	30	15	11	2.0	1.0	.44	.28
11	.14	.43	16	51	50	27	13	11	1.9	1.0	.44	.28
12	.14	.37	22	35	48	22	12	9.5	1.8	1.0	.44	.29
13	.14	.36	21	26	66	19	11	8.9	1.8	1.0	.39	.30
14	.14	.34	76	20	54	16	12	7.7	1.6	.95	.39	.31
15	.14	.32	46	17	38	18	11	7.3	1.5	.95	.39	.32
16	.14	.32	23	14	29	31	9.9	7.3	1.5	.95	.39	.32
17	.14	.44	20	12	23	64	9.2	6.7	1.5	.95	.44	.32
18	.14	.80	15	11	22	421	8.3	6.2	1.5	.86	.59	.32
19	.13	.53	11	9.9	117	246	8.9	5.9	1.5	.78	.48	.32
20	.13	.42	8.9	8.9	84	190	8.0	5.4	1.5	.86	.48	.28
21	.13	4.1	14	8.3	52	135	7.3	5.1	1.5	.86	.44	.28
22	.14	3.1	16	7.7	35	96	6.7	4.9	1.4	.78	.44	.28
23	.14	1.0	13	7.0	26	74	7.0	4.7	1.5	.71	.39	.32
24	.14	.82	11	6.5	20	59	22	4.4	1.8	.65	.39	.28
25	.14	4.2	8.9	6.7	16	45	33	4.2	1.4	.65	.39	.28
26	.14	1.7	8.0	8.9	13	35	31	3.8	1.3	.59	.35	.26
27	.15	1.5	52	7.0	12	29	24	3.6	1.3	.59	.44	.23
28	1.3	1.4	41	7.0	12	23	19	3.4	1.3	.59	.78	.23
29	.90	.99	27	6.5	---	19	16	3.2	1.3	.59	.53	.23
30	.60	.73	21	6.2	---	16	13	3.0	1.3	.59	.44	.23
31	.39	---	16	9.9	---	14	---	2.9	---	.53	.39	---
TOTAL	7.01	28.19	552.94	761.5	1075	1807	449.3	257.1	53.9	27.83	14.02	8.77
MEAN	.23	.94	17.8	24.6	38.4	58.3	15.0	8.29	1.80	.90	.45	.29
MAX	1.3	4.2	76	86	117	421	33	18	2.7	1.3	.78	.35
MIN	.13	.18	.64	6.2	12	12	6.7	2.9	1.3	.53	.35	.23
AC-FT	14	56	1100	1510	2130	3580	891	510	107	55	28	17

WTR YR 1975 TOTAL 5042.56 MEAN 13.8 MAX 421 MIN .13 AC-FT 10000

Peak discharge (base, 100 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
12-14	1300	2.78	130	2-19	1215	3.12	213
1-5	1945	2.70	115	3-18	1515	4.32	808
1-10	0045	2.76	127				

## 11482500 REDWOOD CREEK AT ORICK, CALIF.

LOCATION.--Lat 41°17'18", long 124°03'27", in NE¼NE¼ sec.4, T.10 N., R.1 E., Humboldt County, on left bank at upstream side of bridge on U.S. Highway 101 at Orick, 0.9 mi (1.4 km) downstream from Prairie Creek.

DRAINAGE AREA.--278 mi<sup>2</sup> (720 km<sup>2</sup>).

PERIOD OF RECORD.--September 1911 to September 1913, October 1953 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 5.16 ft (1.573 m) above mean sea level. Sept. 10, 1911, to Aug. 9, 1913, nonrecording gage at different datum.

AVERAGE DISCHARGE.--24 years, 1,112 ft<sup>3</sup>/s (31.49 m<sup>3</sup>/s), 805,600 acre-ft/yr (993 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 50,200 ft<sup>3</sup>/s (1,420 m<sup>3</sup>/s) Mar. 18 (gage height, 23.82 ft or 7.260 m); minimum daily, 9.3 ft<sup>3</sup>/s (0.26 m<sup>3</sup>/s) Oct. 17-19, 21, 23-26.  
Period of record: Maximum discharge, 50,500 ft<sup>3</sup>/s (1,430 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 24.0 ft or 7.32 m, from outside high-water marks); minimum, 9.3 ft<sup>3</sup>/s (0.26 m<sup>3</sup>/s) Oct. 17-19, 21, 23-26, 1974.  
Flood of Jan. 18, 1953, reached a stage of 23.95 ft (7.300 m), from floodmarks (discharge, 50,000 ft<sup>3</sup>/s or 1,420 m<sup>3</sup>/s).

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

REVISIONS (WATER YEARS).--WSP 1315-B: 1912-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	36	90	906	1350	2100	1760	1230	315	107	49	30
2	11	31	192	756	1900	2960	1620	1150	300	108	48	28
3	11	27	655	678	1950	3050	1790	1650	288	103	47	28
4	11	24	2440	1710	2660	2580	1980	1740	270	96	46	26
5	10	23	902	4230	2690	2300	1780	1510	256	95	45	25
6	10	22	509	7790	3060	2100	1620	1350	240	93	45	24
7	10	49	421	5350	3200	2170	1550	1230	229	89	44	23
8	10	87	329	9920	3030	3490	1580	1130	221	83	44	22
9	9.7	72	249	5800	4770	3280	1420	1080	211	82	42	21
10	9.7	69	200	7720	5230	2900	1290	1080	195	78	41	21
11	9.7	58	756	4670	4300	2560	1180	1130	187	78	39	21
12	9.7	49	1270	3460	6730	2240	1060	990	179	78	37	21
13	9.7	44	1760	2780	8740	2050	1020	917	168	73	36	21
14	9.7	40	4070	2260	5990	1860	1060	872	159	72	35	21
15	9.7	38	3210	1890	4360	1840	1020	838	153	72	34	23
16	9.7	34	1730	1580	3540	2610	944	764	149	76	32	23
17	9.3	39	1380	1350	2910	6000	881	700	143	76	34	23
18	9.3	133	975	1170	2730	38500	813	662	144	74	41	22
19	9.3	165	754	1030	10600	18100	829	632	144	72	33	21
20	9.4	115	630	923	9280	7560	788	590	140	70	31	21
21	9.3	135	966	832	5220	6810	748	549	136	68	30	21
22	9.5	269	1140	750	3980	7090	708	516	130	65	29	21
23	9.3	169	835	679	3310	6100	764	490	128	63	29	21
24	9.3	113	665	631	2850	6850	1820	478	148	62	29	20
25	9.3	318	573	604	2470	14300	2760	447	149	60	28	19
26	9.3	285	527	827	2150	6560	2210	415	130	58	27	19
27	10	188	2680	638	2100	4400	1840	396	121	56	28	19
28	103	162	2580	574	2250	3290	1620	379	115	55	45	19
29	107	127	1670	534	---	2620	1450	361	112	53	40	18
30	68	104	1420	493	---	2260	1330	344	106	51	37	18
31	46	---	1120	676	---	2000	---	330	---	50	33	---
TOTAL	589.9	3025	36698	73211	113350	172530	41235	25950	5366	2316	1158	660
MEAN	19.0	101	1184	2362	4048	5565	1375	837	179	74.7	37.4	22.0
MAX	107	318	4070	9920	10600	38500	2760	1740	315	108	49	30
MIN	9.3	22	90	493	1350	1840	708	330	106	50	27	18
AC-FT	1170	6000	72790	145200	224800	342200	81790	51470	10640	4590	2300	1310
CAL YR 1974	TOTAL	357700.9	MEAN	980	MAX	16400	MIN	9.3	AC-FT	709500		
WTR YR 1975	TOTAL	476088.9	MEAN	1304	MAX	38500	MIN	9.3	AC-FT	944300		

Peak discharge (base, 9,000 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
1-8	0145	13.60	12,000	3-18	1300	23.82	50,200
2-13	0930	12.66	9,730	3-25	0430	16.31	20,100
2-19	1900	16.19	19,700				



11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	BICARBONATE (HCO <sub>3</sub> ) (MG/L)	CARBONATE (CO <sub>3</sub> ) (MG/L)	ALKALINITY AS CaCO <sub>3</sub> (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRATE PLUS NITRITE (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
OCT. 01...	58	0	48	--	6.4	--	--	--	--	--	--
NOV. 12...	84	0	69	--	7.2	--	--	--	--	--	--
APR. 14...	39	0	32	--	3.0	.04	--	--	--	--	.20
JUNE 02...	59	0	48	11	3.3	--	.00	.00	.00	.04	--
08...	63	0	52	11	3.6	--	.00	.00	.00	3.3	--
10...	--	--	--	--	--	--	--	--	--	--	--
JULY 31...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (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
OCT. 01...	--	--	--	--	--	--	57	9	--	.3
NOV. 12...	--	--	--	--	--	--	87	18	--	.3
APR. 14...	--	.11	--	--	--	--	38	6	--	.2
JUNE 02...	.05	--	.02	.01	74	.10	55	7	12	.2
08...	3.3	--	.01	.01	79	.11	60	9	12	.2
10...	--	--	--	--	--	--	--	--	--	--
JULY 31...	--	--	--	--	--	--	--	--	--	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CHEMICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLIFORM (COL PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	DIS- SOLVED ORGANIC CARBON (C) (MG/L)
OCT. 01...	143	7.4	17.0	1	10.0	--	3.7	--	--	--
NOV. 12...	202	8.1	15.0	0	11.6	--	1.1	--	--	--
APR. 14...	94	7.2	11.0	70	9.8	--	3.9	--	--	--
JUNE 02...	127	7.7	16.5	--	--	5	1.9	--	--	.1
08...	136	7.6	21.0	--	--	3	2.5	--	--	1.7
10...	--	--	--	--	--	--	--	24	86	--
JULY 31...	--	--	--	--	--	--	--	84	812	--

DATE	SUSPENDED ORGANIC CARBON (C) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	DIS- SOLVED CADMIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 01...	--	0	--	--	--	--	--	--	--	--
NOV. 12...	--	0	--	--	--	--	--	--	--	--
APR. 14...	--	0	0	--	10	--	10	--	20	--
JUNE 02...	.0	--	--	0	--	0	--	4	--	10
08...	.1	--	--	0	--	1	--	3	--	0
10...	--	--	--	--	--	--	--	--	--	--
JULY 31...	--	--	--	--	--	--	--	--	--	--

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

## REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	17.5	-- 14.0	-- --	--	11.5	-- 9.5	10.0	-- 7.5	9.0	-- 6.0	11.5	-- 9.5
2	18.5	-- 14.5	-- --	--	12.0	-- 10.0	10.0	-- 7.0	9.5	-- 6.0	11.5	-- 10.5
3	18.0	-- 14.0	-- --	--	12.0	-- 10.0	10.5	-- 7.5	8.5	-- 7.0	11.5	-- 9.5
4	18.0	-- 13.5	-- --	--	11.0	-- 10.5	9.5	-- 8.0	9.0	-- 6.5	11.0	-- 9.5
5	17.5	-- 12.5	-- --	--	12.0	-- 9.5	9.5	-- 8.0	11.5	-- 7.5	10.5	-- 9.0
6	16.5	-- 12.5	-- --	--	11.0	-- 10.0	10.0	-- 8.0	11.0	-- 7.5	11.0	-- 9.0
7	17.0	-- 12.0	-- 11.5	--	11.5	-- 10.0	9.0	-- 8.0	11.5	-- 9.0	11.0	-- 9.5
8	17.0	-- 13.5	-- --	--	11.5	-- 9.5	10.5	-- 8.0	10.5	-- 8.0	10.5	-- 9.0
9	16.5	-- 13.5	-- --	--	11.5	-- 9.5	9.5	-- 7.5	9.5	-- 7.5	10.5	-- 9.0
10	17.0	-- 13.5	-- 12.0	--	12.5	-- 10.5	8.5	-- 7.0	13.5	-- 8.5	11.5	-- 9.5
11	15.0	-- 10.0	-- 14.0	--	12.0	-- 10.0	8.5	-- 6.5	11.5	-- 9.0	11.5	-- 9.5
12	16.5	-- 12.5	-- --	--	11.5	-- 10.0	9.5	-- 7.0	10.0	-- 9.0	11.0	-- 8.5
13	16.0	-- 12.0	-- --	--	11.5	-- 9.0	8.5	-- 6.5	11.5	-- 9.0	10.5	-- 9.0
14	16.0	-- 12.0	-- --	--	10.5	-- 9.0	8.5	-- 7.5	11.5	-- 8.0	11.0	-- 8.5
15	16.0	-- 12.0	-- 11.5	--	10.5	-- 9.5	8.5	-- 7.0	11.0	-- 8.0	11.0	-- 8.5
16	15.0	-- 12.0	13.5	-- 12.0	12.0	-- 10.5	9.0	-- 7.0	10.0	-- 7.5	10.0	-- 8.5
17	15.0	-- 11.5	13.0	-- 12.0	10.5	-- 7.5	10.0	-- 7.5	10.0	-- 8.0	12.0	-- 8.5
18	15.5	-- 12.0	12.5	-- 10.5	9.5	-- 6.5	10.5	-- 6.5	9.5	-- 8.0	10.0	-- 8.5
19	16.0	-- 11.5	13.0	-- 10.5	9.5	-- 6.5	9.5	-- 7.0	10.0	-- 9.0	11.0	-- 7.5
20	14.5	-- 11.5	12.5	-- 10.5	9.5	-- 7.5	10.5	-- 7.5	10.5	-- 8.0	10.0	-- 8.0
21	15.0	-- 13.0	12.5	-- 9.0	10.0	-- 9.0	10.5	-- 9.0	8.5	-- 7.0	9.5	-- 7.0
22	14.5	-- 11.5	12.5	-- 10.0	9.0	-- 6.5	10.0	-- 8.5	8.5	-- 7.0	10.0	-- 8.0
23	14.0	-- 11.5	12.0	-- 10.0	9.5	-- 6.0	10.5	-- 7.0	9.0	-- 8.0	10.5	-- 8.5
24	15.0	-- 11.5	12.0	-- 9.5	9.0	-- 6.0	8.5	-- 6.0	10.0	-- 7.5	9.5	-- 8.5
25	12.5	-- 10.0	11.0	-- 9.0	9.0	-- 6.0	10.5	-- 7.0	10.5	-- 9.0	9.5	-- 8.0
26	14.0	-- 10.0	12.0	-- 9.5	7.0	-- 5.5	10.0	-- 6.5	11.0	-- 9.0	10.0	-- 7.5
27	14.0	-- 12.0	12.0	-- 9.5	8.5	-- 6.0	--	--	10.0	-- 9.0	8.5	-- 7.5
28	13.5	-- 10.5	11.0	-- 8.5	9.5	-- 7.0	10.0	-- 6.0	10.5	-- 9.5	9.0	-- 7.5
29	13.0	-- 10.5	12.0	-- 9.0	9.5	-- 8.0	8.5	-- 6.0	--	--	9.5	-- 8.0
30	14.5	-- 11.0	12.0	-- 10.0	10.0	-- 8.5	11.5	-- 6.0	--	--	9.0	-- 8.5
31	-- 12.0	--	-- --	--	12.0	-- 9.0	8.5	-- 6.0	--	--	9.5	-- 9.0
MONTH	18.5	-- 10.0	-- --	--	12.5	-- 5.5	11.5	-- 6.0	13.5	-- 6.0	12.0	-- 7.0
DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	11.5	-- 8.0	9.0	-- 7.5	9.0	-- 8.5	16.5	-- 12.5	22.5	-- 14.5	20.0	-- 13.0
2	10.0	-- 8.0	9.5	-- 8.0	10.5	-- 9.0	19.0	-- 13.0	21.5	-- 15.0	21.0	-- 13.0
3	9.0	-- 7.5	9.5	-- 8.5	9.5	-- 8.0	20.5	-- 14.0	22.0	-- 14.5	22.5	-- 13.5
4	11.0	-- 8.5	9.0	-- 8.0	9.5	-- 8.5	15.5	-- 13.0	21.0	-- 15.5	22.0	-- 14.0
5	9.5	-- 8.0	9.5	-- 8.0	10.5	-- 8.5	21.5	-- 13.0	21.5	-- 14.0	16.5	-- 14.0
6	11.0	-- 7.5	10.5	-- 9.0	10.0	-- 8.5	21.5	-- 14.0	19.0	-- 13.0	20.5	-- 14.0
7	9.5	-- 8.0	9.0	-- 8.0	12.5	-- 9.5	19.5	-- 14.5	21.5	-- 13.5	20.5	-- 14.0
8	9.5	-- 7.5	12.5	-- 8.0	10.0	-- 8.5	17.5	-- 14.5	22.0	-- 14.5	19.5	-- 14.0
9	9.0	-- 7.5	12.5	-- 8.5	12.5	-- 9.5	18.0	-- 14.5	21.5	-- 14.5	18.0	-- 14.0
10	8.0	-- 7.5	10.5	-- 9.0	13.0	-- 9.5	16.5	-- 14.5	21.5	-- 14.5	19.0	-- 14.0
11	9.0	-- 7.5	9.5	-- 9.0	10.5	-- 10.0	16.0	-- 14.0	21.5	-- 14.0	17.5	-- 14.5
12	11.0	-- 8.0	10.5	-- 9.0	11.5	-- 10.0	19.5	-- 14.0	21.5	-- 14.5	15.5	-- 14.0
13	13.5	-- 8.5	10.5	-- 8.5	11.5	-- 10.0	21.0	-- 14.5	18.5	-- 14.5	16.0	-- 14.0
14	14.0	-- 8.0	10.5	-- 9.0	11.0	-- 10.5	20.5	-- 14.5	18.5	-- 15.0	15.0	-- 14.0
15	11.5	-- 8.0	10.5	-- 7.0	10.5	-- 7.5	20.5	-- 15.5	19.5	-- 14.5	16.5	-- 14.0
16	8.5	-- 7.5	11.0	-- 7.0	13.0	-- 8.0	18.5	-- 15.0	21.0	-- 15.0	-- --	--
17	8.5	-- 7.0	9.5	-- 8.0	--	--	21.5	-- 13.5	21.0	-- 15.5	-- --	--
18	11.5	-- 8.0	11.5	-- 7.0	--	--	22.0	-- 16.0	21.0	-- 14.5	-- --	--
19	9.0	-- 8.0	11.5	-- 8.0	--	--	17.5	-- 15.5	21.5	-- 14.5	-- --	--
20	9.0	-- 8.0	10.0	-- 8.5	--	--	20.5	-- 15.5	21.0	-- 14.5	-- --	--
21	9.0	-- 6.5	12.5	-- 8.0	-- --	--	22.5	-- 16.5	19.5	-- 14.5	-- --	--
22	9.5	-- 6.5	11.5	-- 10.0	-- --	--	22.0	-- 14.5	20.5	-- 15.0	-- --	--
23	9.0	-- 7.0	10.5	-- 9.5	-- --	--	22.5	-- 14.5	21.5	-- 14.0	-- --	--
24	9.0	-- 7.0	9.5	-- 8.5	-- --	--	22.0	-- 15.5	20.0	-- 14.0	-- --	--
25	9.5	-- 7.5	13.0	-- 8.5	19.5	-- 14.5	22.0	-- 14.5	20.0	-- 15.0	-- --	--
26	8.0	-- 7.5	13.5	-- 9.5	20.5	-- 13.0	22.5	-- 15.0	20.0	-- 15.0	-- --	--
27	9.0	-- 8.0	11.5	-- 9.5	20.0	-- 13.0	18.0	-- 15.5	20.5	-- 13.5	-- --	--
28	9.5	-- 7.5	10.5	-- 9.5	19.5	-- 14.0	20.5	-- 15.5	20.0	-- 13.0	-- --	--
29	10.5	-- 8.5	11.0	-- 9.5	20.0	-- 12.5	22.0	-- 15.0	21.5	-- 13.5	-- --	--
30	9.5	-- 8.5	10.5	-- 9.5	15.0	-- 13.5	21.5	-- 14.5	21.0	-- 13.5	-- --	--
31	--	--	10.0	-- 8.5	-- --	--	22.0	-- 13.5	21.0	-- 13.0	-- --	--
MONTH	14.0	-- 6.5	13.5	-- 7.0	-- --	--	22.5	-- 12.5	22.5	-- 13.0	-- --	--

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	12	2	.06	36	3	.29	90	6	1.5
2	11	2	.06	31	3	.25	192	27	18
3	11	3	.09	27	3	.22	655	470	1300
4	11	3	.09	24	3	.19	2440	2150	16000
5	10	4	.11	23	3	.19	902	125	304
6	10	5	.14	22	3	.19	509	46	63
7	10	5	.14	49	18	3.0	421	26	30
8	10	6	.16	87	9	2.1	329	20	18
9	9.7	6	.15	72	5	.97	249	13	8.7
10	9.7	7	.18	69	4	.75	200	8	4.3
11	9.7	6	.16	58	4	.63	756	196	524
12	9.7	6	.16	49	4	.53	1270	305	1250
13	9.7	6	.16	44	3	.36	1760	572	2720
14	9.7	6	.16	40	2	.22	4070	1650	24300
15	9.7	6	.16	38	2	.21	3210	840	7280
16	9.7	5	.13	34	2	.18	1730	273	1280
17	9.3	4	.10	39	2	.21	1380	156	581
18	9.3	3	.08	133	17	7.5	975	100	263
19	9.3	3	.08	165	14	6.2	754	66	134
20	9.4	3	.08	115	4	1.2	630	58	99
21	9.3	4	.10	135	24	16	966	131	389
22	9.5	4	.10	269	43	33	1140	101	311
23	9.3	4	.10	169	13	5.9	835	74	167
24	9.3	4	.10	113	5	1.5	665	58	104
25	9.3	3	.08	318	36	31	573	41	63
26	9.3	3	.08	285	23	18	527	40	57
27	10	12	.32	188	7	3.6	2680	1300	8150
28	103	87	25	162	6	2.6	2580	690	4810
29	107	32	9.2	127	6	2.1	1670	275	1240
30	68	8	1.5	104	4	1.1	1420	175	671
31	46	3	.37	---	---	---	1120	110	333
MONTH	589.9	---	39.41	3025	---	140.18	36698	---	72473.5

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	906	92	225	1350	244	943	2100	196	1110
2	756	74	151	1900	470	2420	2960	604	5000
3	678	53	97	1950	356	1870	3050	558	4600
4	1710	413	2010	2660	647	4650	2580	270	1880
5	4230	1640	35800	2690	643	5340	2300	196	1220
6	7790	2160	45400	3060	690	5700	2100	150	850
7	5350	1550	28100	3200	725	6260	2170	178	1070
8	9920	2740	76500	3030	495	4050	3490	1090	10600
9	5800	1380	22100	4770	2390	31400	3280	518	4590
10	7720	2230	49100	5230	1610	23500	2900	334	2620
11	4670	1340	16900	4300	661	7670	2560	405	2810
12	3460	552	5160	6730	2080	45300	2240	196	1190
13	2780	397	2980	8740	1930	45500	2050	147	814
14	2260	299	1820	5990	989	16000	1860	128	643
15	1890	246	1260	4360	610	7180	1840	128	636
16	1580	191	815	3540	443	4230	2610	460	3240
17	1350	148	539	2910	328	2580	6000	3370	73500
18	1170	120	379	2730	288	2120	38500	9610	1070000
19	1030	88	245	10600	2420	100000	18100	5200	254000
20	923	87	217	9280	2060	51600	7560	2860	58400
21	832	80	180	5220	1000	14100	6810	2480	48000
22	750	60	121	3980	620	6660	7090	2010	38500
23	679	50	92	3310	420	3750	6100	1850	30600
24	631	40	68	2850	334	2570	6850	2300	46300
25	604	37	60	2470	270	1800	14300	4620	192000
26	827	135	306	2150	219	1270	6560	2300	40700
27	638	58	100	2100	268	1570	4400	1290	15300
28	574	37	57	2250	299	1820	3290	1060	9420
29	534	33	48	---	---	---	2620	874	6180
30	493	26	35	---	---	---	2260	725	4420
31	676	78	142	---	---	---	2000	582	3140
MONTH	73211	---	291007	113350	---	401853	172530	---	1933333

## REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	1760	487	2310	1230	210	697	315	30	26
2	1620	425	1860	1150	317	984	300	25	20
3	1790	457	2210	1650	1420	6330	288	21	16
4	1980	498	2660	1740	605	2840	270	18	13
5	1780	350	1680	1510	257	1050	256	16	11
6	1620	286	1250	1350	186	678	240	16	10
7	1550	251	1050	1230	189	628	229	16	9.9
8	1580	229	977	1130	198	604	221	22	13
9	1420	208	797	1080	205	598	211	12	6.8
10	1290	189	658	1080	165	481	195	12	6.3
11	1180	168	535	1130	163	497	187	10	5.0
12	1060	142	406	990	124	331	179	10	4.8
13	1020	135	372	917	124	307	168	9	4.1
14	1060	157	449	872	128	301	159	8	3.4
15	1020	152	419	838	109	247	153	8	3.3
16	944	142	362	764	106	219	149	10	4.0
17	881	132	314	700	100	189	143	8	3.1
18	813	125	274	662	94	168	144	7	2.7
19	829	141	316	632	88	150	144	6	2.3
20	788	123	262	590	82	131	140	6	2.3
21	748	105	212	549	76	113	136	5	1.8
22	708	97	185	516	70	98	130	4	1.4
23	764	125	258	490	66	87	128	4	1.4
24	1820	1400	10100	478	64	83	148	10	4.0
25	2760	1390	10400	447	59	71	149	9	3.6
26	2210	980	5850	415	54	61	130	6	2.1
27	1840	444	2210	396	50	53	121	6	2.0
28	1620	289	1260	379	48	49	115	6	1.9
29	1450	248	971	361	46	45	112	6	1.8
30	1330	223	801	344	45	42	106	6	1.7
31	---	---	---	330	38	34	---	---	---
MONTH	41235	---	51408	25950	---	18166	5366	---	188.7
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	107	5	1.4	49	4	.53	30	7	.57
2	108	5	1.5	48	4	.52	28	7	.53
3	103	4	1.1	47	4	.51	28	6	.45
4	96	4	1.0	46	3	.37	26	5	.35
5	95	3	.77	45	4	.49	25	5	.34
6	93	3	.75	45	5	.61	24	5	.32
7	89	5	1.2	44	5	.59	23	5	.31
8	83	7	1.6	44	5	.59	22	5	.30
9	82	6	1.3	42	6	.68	21	6	.34
10	78	6	1.3	41	6	.66	21	5	.28
11	78	6	1.3	39	6	.63	21	5	.28
12	78	6	1.3	37	7	.70	21	5	.28
13	73	6	1.2	36	7	.68	21	5	.28
14	72	6	1.2	35	6	.57	21	5	.28
15	72	6	1.2	34	5	.46	23	5	.31
16	76	6	1.2	32	4	.35	23	5	.31
17	76	6	1.2	34	4	.37	23	5	.31
18	74	5	1.0	41	4	.44	22	5	.30
19	72	5	.97	33	5	.45	21	5	.28
20	70	4	.76	31	6	.50	21	5	.28
21	68	4	.73	30	6	.49	21	5	.28
22	65	4	.70	29	5	.39	21	5	.28
23	63	4	.68	29	5	.39	21	5	.28
24	62	3	.50	29	5	.39	20	5	.27
25	60	3	.49	28	5	.38	19	5	.26
26	58	3	.47	27	5	.36	19	5	.26
27	56	3	.45	28	5	.38	19	5	.26
28	55	4	.59	45	5	.61	19	5	.26
29	53	5	.72	40	6	.65	18	5	.24
30	51	6	.83	37	6	.60	18	5	.24
31	50	4	.54	33	6	.53	---	---	---
MONTH	2316	---	29.95	1158	---	15.87	660	---	9.33
YEAR	476088.9		2768663.94						



11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

## SUMMARY OF WATER AND SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

MONTH	WATER DISCHARGE CFS-DAYS	SUSPENDED SEDIMENT DISCHARGE TONS	BFDLOAD DISCHARGE TONS	TOTAL SEDIMENT DISCHARGE TONS
OCTOBER 1974	589.90	39.41	0	39
NOVEMBER ...	3025.00	140.18	0	140
DECEMBER ...	36698.00	72473.50	9850	82300
JANUARY 1975	73211.00	291007.00	41700	333000
FEBRUARY ...	113350.00	401853.00	73600	475000
MARCH .....	172530.00	1933333.00	116000	2050000
APRIL .....	41235.00	51408.00	7860	59300
MAY .....	25950.00	18166.00	2060	20200
JUNE .....	5366.00	188.70	0	189
JULY .....	2316.00	29.95	0	30
AUGUST .....	1158.00	15.87	0	16
SEPTEMBER ..	660.00	9.33	0	9
TOTAL .....	476088.90	2768663.94	251070	3020223

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT 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. 21...	2310	9.0	318	159	137	44	61	78	90	96
DEC. 03...	1025	--	509	433	595	30	42	62	81	92
FEB. 06...	1010	7.5	2990	606	4890	14	22	30	39	47
12...	1330	9.0	7960	2280	49000	15	23	34	46	59
13...	1200	--	9290	1840	46200	15	24	33	45	55
19...	1505	9.0	16200	4360	191000	20	30	43	58	74
19...	1730	--	18600	4780	240000	22	33	49	65	83
22...	1005	8.0	4020	549	5960	24	33	43	54	65
MAR. 18...	0930	10.0	41100	10400	1150000	25	34	47	62	77
18...	1000	9.5	42400	10700	1230000	28	35	53	70	85
18...	1620	9.0	49500	11000	1470000	23	34	48	64	81
19...	1615	9.0	13300	4180	150000	18	25	35	47	61
21...	1715	8.0	8590	4480	104000	16	21	31	42	54
25...	1220	9.0	13800	4100	153000	18	25	35	47	60
25...	1730	9.0	11000	3330	98900	18	25	35	46	58
31...	1200	8.5	2020	539	2940	23	30	40	49	58

## REDWOOD CREEK BASIN

11482500 REDWOOD CREEK AT ORICK, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
NOV. 21...	--	99	--	99	--	100	--	--	--	--
DEC. 03...	--	97	--	99	--	100	--	--	--	--
FEB. 06...	54	--	66	--	80	--	96	--	100	--
12...	--	70	--	86	--	98	--	100	--	--
13...	62	--	73	--	84	--	95	--	100	--
19...	87	--	95	--	100	--	--	--	--	--
19...	92	--	99	--	100	--	--	--	--	--
22...	75	--	84	--	98	--	100	--	--	--
MAR. 18...	88	--	96	--	100	--	--	--	--	--
18...	94	--	99	--	100	--	--	--	--	--
18...	88	--	96	--	100	--	--	--	--	--
19...	73	--	86	--	98	--	100	--	--	--
21...	64	--	75	--	88	--	97	--	100	--
25...	72	--	85	--	97	--	100	--	--	--
25...	71	--	85	--	98	--	100	--	--	--
31...	--	65	--	71	--	83	--	96	--	100

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	NUMBER OF SAM- PLING POINTS	INSTAN- TANEOUS DIS- CHARGE (CFS)	STREAM WIDTH (FT)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
NOV. 15...	1025	11.5	--	37	57	.00	--	--	--
FEB. 06...	1045	7.5	5	2990	148	6090	--	1	6
13...	1105	9.0	7	9360	247	2850	1	6	11
MAR. 21...	1630	8.0	5	8440	190	2390	1	3	10
31...	1245	8.5	5	2030	155	1960	--	1	9
MAY 30...	1250	--	--	343	154	.00	--	--	--
JULY 28...	1345	20.5	--	55	51	.00	--	--	--

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
NOV. 15...	--	--	--	--	--	--	--	--
FEB. 06...	27	50	68	82	91	98	100	--
13...	34	47	59	73	86	93	100	--
MAR. 21...	19	31	46	62	78	88	95	100
31...	24	44	65	84	94	100	--	--
MAY 30...	--	--	--	--	--	--	--	--
JULY 28...	--	--	--	--	--	--	--	--

## BUTTE VALLEY BASIN

405

11489500 ANTELOPE CREEK NEAR TENNANT, CALIF.

LOCATION.--Lat 41°32'48", long 121°55'02", in NW¼NW¼ sec.25, T.43 N., R.1 W., Siskiyou County, Shasta National Forest, on right bank 2.5 mi (4.0 km) south of Tennant, 4 mi (6 km) downstream from Frog Lake, and 17 mi (27 km) southeast of town of Mount Hebron.

DRAINAGE AREA.--18.6 mi<sup>2</sup> (48.2 km<sup>2</sup>).

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

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 5,080 ft (1,548 m), from topographic map.

AVERAGE DISCHARGE.--23 years, 37.7 ft<sup>3</sup>/s (1.068 m<sup>3</sup>/s), 27,310 acre-ft/yr (33.7 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 239 ft<sup>3</sup>/s (6.77 m<sup>3</sup>/s) May 31 (gage height, 3.08 or 0.939 m); maximum gage height, 3.18 ft (0.969 m) Jan. 3 (backwater from ice); minimum daily discharge, 11 ft<sup>3</sup>/s (0.31 m<sup>3</sup>/s) Jan. 30.  
Period of record: Maximum discharge, 1,350 ft<sup>3</sup>/s (38.2 m<sup>3</sup>/s) Nov. 11, 1973 (gage height, 5.19 ft or 1.582 m), from rating curve extended above 180 ft<sup>3</sup>/s (5.10 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 4.00 ft (1.219 m); minimum daily, 3.6 ft<sup>3</sup>/s (0.10 m<sup>3</sup>/s) Jan. 5, 1960.

REMARKS.--Records good except those for the winter period, which are fair. No storage or diversion above station.

REVISIONS.--WSP 1929: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	21	20	14	15	23	20	28	195	54	22	18
2	20	20	21	13	16	24	20	31	195	51	21	17
3	20	20	23	14	17	21	19	41	184	50	21	16
4	20	20	25	17	17	21	19	35	177	49	20	16
5	20	20	23	21	16	20	19	32	190	49	20	16
6	20	20	22	39	16	20	19	32	197	48	19	16
7	20	24	22	35	18	22	19	36	178	47	19	15
8	20	21	21	42	19	25	19	40	148	46	19	15
9	20	20	21	34	25	23	18	44	134	44	19	15
10	20	20	20	26	22	22	19	51	128	44	19	15
11	20	20	21	22	19	21	18	56	128	44	18	15
12	19	20	22	19	19	20	19	59	132	43	18	15
13	19	20	21	18	20	20	20	66	131	41	18	15
14	19	19	21	18	19	20	21	81	131	38	18	15
15	19	19	22	18	19	20	19	98	132	46	18	15
16	19	19	22	18	18	20	19	104	121	41	18	15
17	19	19	21	18	17	18	18	108	102	37	18	15
18	19	20	20	18	18	20	19	116	90	34	21	15
19	19	19	21	18	18	27	20	116	87	33	19	14
20	19	19	22	18	19	25	21	100	81	31	18	14
21	19	41	22	18	17	18	22	93	77	30	18	14
22	19	28	22	18	18	26	23	97	75	29	18	14
23	19	24	17	18	18	22	22	108	80	28	18	14
24	19	23	16	19	18	20	27	109	98	26	17	14
25	19	23	15	19	18	23	25	104	73	26	17	14
26	19	22	16	20	18	21	23	107	66	25	17	14
27	20	22	18	17	19	20	23	116	62	24	16	14
28	27	21	17	15	21	21	24	129	59	23	18	14
29	22	21	15	12	---	20	25	144	58	23	17	14
30	21	20	17	11	---	21	26	171	56	23	17	14
31	23	---	15	14	---	21	---	195	---	22	16	---
TOTAL	618	645	621	621	514	665	625	2647	3565	1149	572	447
MEAN	19.9	21.5	20.0	20.0	18.4	21.5	20.8	85.4	119	37.1	18.5	14.9
MAX	27	41	25	42	25	27	27	195	197	54	22	18
MIN	19	19	15	11	15	18	18	28	56	22	16	14
AC-FT	1230	1280	1230	1230	1020	1320	1240	5250	7070	2280	1130	887
CAL YR 1974	TOTAL	21887	MEAN 60.0	MAX 640	MIN 15	AC-FT 43410						
WTR YR 1975	TOTAL	12689	MEAN 34.8	MAX 197	MIN 11	AC-FT 25170						

Peak discharge (base, 100 ft<sup>3</sup>/s).--May 18 (2100) 141 ft<sup>3</sup>/s (2.68 ft); May 31 (1800) 239 ft<sup>3</sup>/s (3.08 ft).

## KLAMATH RIVER BASIN

11510700 KLAMATH RIVER BELOW JOHN C. BOYLE POWERPLANT, NEAR KENO, OREG.

LOCATION.--Lat 42°05'05", long 122°04'20", in SE4SE4 sec.14, T.40 S., R.6 E., Klamath County, on right bank 0.7 mi (1.1 km) downstream from John C. Boyle powerplant, 8 mi (13 km) downstream from Spencer Creek, and 8.5 mi (13.7 km) southwest of Keno.

DRAINAGE AREA.--4,080 mi<sup>2</sup> (10,570 km<sup>2</sup>), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--January 1959 to current year. Prior to Oct. 1, 1961, published as "below Big Bend powerplant."

GAGE.--Water-stage recorder. Datum of gage is 3,274.82 ft (998.165 m) above mean sea level (levels by Pacific Power and Light Co.).

AVERAGE DISCHARGE.--16 years, 1,927 ft<sup>3</sup>/s (54.6 m<sup>3</sup>/s), 1,396,000 acre-ft/yr (1.72 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 6,120 ft<sup>3</sup>/s (173 m<sup>3</sup>/s) Mar. 26 (gage height, 7.56 ft or 2.304 m); minimum, 344 ft<sup>3</sup>/s (9.74 m<sup>3</sup>/s) Aug. 26, 27; minimum daily, 375 ft<sup>3</sup>/s (10.6 m<sup>3</sup>/s) July 5, 22.  
Period of record: Maximum discharge, 11,000 ft<sup>3</sup>/s (312 m<sup>3</sup>/s) Mar. 5, 1972 (gage height, 9.33 ft or 2.844 m); minimum, 283 ft<sup>3</sup>/s (8.01 m<sup>3</sup>/s) Feb. 17, 1968; minimum daily, 317 ft<sup>3</sup>/s (8.98 m<sup>3</sup>/s) July 25, 1968.

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake, usable capacity, 523,700 acre-ft (646 hm<sup>3</sup>), dead storage, 211,800 acre-ft (261 hm<sup>3</sup>). Large diurnal fluctuation caused by John C. Boyle powerplant and 2 powerplants below Upper Klamath Lake. Diversions for irrigation above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1450	2090	2710	2810	2370	2780	4540	3690	1120	736	695	1160
2	1670	2390	2710	2810	2350	2800	4350	3690	1120	742	560	1190
3	1730	2390	2710	2810	2700	2800	4140	3710	1140	651	395	1180
4	1670	2550	2710	2810	2480	2780	3870	3710	1170	645	948	1180
5	1740	2640	2740	2820	2680	2800	3900	3710	1240	375	927	1180
6	1730	2390	2810	2840	2660	2700	3900	3690	1240	379	879	1180
7	1730	2630	2800	2840	2740	2800	3770	3690	1520	673	879	1190
8	1780	2350	2800	2840	2610	2810	3470	3710	1520	656	879	1180
9	1890	2410	2800	2840	2570	2800	3080	3740	1530	651	790	1190
10	2030	2640	2800	2840	2600	2800	3080	3810	1480	651	411	1140
11	1880	2660	2780	2680	2640	2800	3080	3820	879	645	990	1200
12	1830	2640	2780	2660	2670	2780	3080	3890	778	387	997	1180
13	2070	2640	2810	2570	2370	2560	3100	3760	379	391	976	1170
14	1850	2640	2810	2660	2470	2980	3140	3530	790	656	976	1180
15	1780	2750	2810	2660	2750	2880	3070	3430	379	656	934	1180
16	1720	2770	2810	2670	2670	2890	3100	3140	651	706	927	1180
17	1720	2770	2810	2480	2660	3170	3110	3140	610	920	387	1460
18	1720	2770	2800	2550	2640	3770	3410	3130	605	1040	1090	1470
19	1700	2710	2800	2440	2740	4190	3170	3050	651	1060	1030	1470
20	1530	2680	2800	2520	2740	4720	2910	2880	610	846	1060	1700
21	1710	2670	2820	2570	2600	4660	2820	2800	379	395	1060	1680
22	1710	2660	2810	2640	2780	4600	3290	2740	383	375	1060	1680
23	1610	2660	2810	2570	2780	4680	3010	2340	667	379	840	1870
24	1240	2640	2810	2520	2780	4640	2870	1550	760	415	790	1880
25	1190	2680	2800	2660	2780	4860	2850	1560	695	766	1020	1940
26	1200	2730	2800	2670	2780	5500	2870	1560	605	760	1000	1840
27	1190	2730	2800	2700	2780	5630	2810	1570	695	379	1130	1780
28	1200	2730	2800	2700	2780	5230	2940	1560	651	790	1230	1760
29	1280	2730	2810	2340	---	5080	3400	1240	651	784	1240	1770
30	1500	2710	2810	2700	---	5060	3690	1240	748	742	1120	1820
31	1490	---	2810	2570	---	4920	---	1140	---	736	1100	---
TOTAL	50540	78450	86480	82840	74170	115470	99820	90220	25646	19987	28320	42920
MEAN	1630	2615	2790	2672	2649	3725	3327	2910	855	645	914	1431
MAX	2070	2770	2820	2840	2780	5630	4540	3890	1530	1060	1240	1880
MIN	1190	2090	2710	2390	2350	2560	2810	1140	379	375	387	1140
AC-FT	100200	155600	171500	164300	147100	229000	198000	179000	50870	39640	56170	85130
CAL YR 1974 TOTAL	948712	MEAN	2599	MAX	8660	MIN	407	AC-FT	1882000			
WTR YR 1975 TOTAL	794863	MEAN	2178	MAX	5630	MIN	375	AC-FT	1577000			

## RESERVOIRS IN KLAMATH RIVER BASIN, CALIF.

11511400 COPCO LAKE NEAR COPCO.--Lat 41°58'46", long 122°20'00", in SE¼SW¼ sec.29, T.48 N., R.4 W., Siskiyou County, 12.7 mi (20.4 km) northeast of Hornbrook. Drainage area, 4,300 mi<sup>2</sup> (11,137 km<sup>2</sup>). Period of record, October 1967 to current year. Gage is a pressure device and telemark read once daily. Datum of gage is at mean sea level (levels by Pacific Power and Light Co.). Extremes for current year: Maximum contents, 46,461 acre-ft (57.3 hm<sup>3</sup>) July 21 (elevation, 2,607.09 ft or 794.641 m); minimum, 39,991 acre-ft (49.3 hm<sup>3</sup>) Oct. 1 (elevation, 2,600.22 ft or 792.547 m). Extremes for period of record: Maximum contents, 46,818 acre-ft (57.7 hm<sup>3</sup>) June 24, 1969 (elevation, 2,607.45 ft or 794.751 m); minimum, 30,360 acre-ft (37.4 hm<sup>3</sup>) Aug. 19, 1971 (elevation, 2,589.24 ft or 789.200 m).

Reservoir is formed by gravity-type dam completed in 1922. Normal capacity at elevation 2,607.5 ft (794.77 m) is 46,867 acre-ft (57.8 hm<sup>3</sup>). Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.

11516510 IRON GATE RESERVOIR NEAR HORN BROOK.--Lat 41°55'58", long 122°26'06", in SW¼SW¼ sec.9, T.47 N., R.5 W., Siskiyou County, 6.6 mi (10.6 km) northeast of Hornbrook. Drainage area, 4,573 mi<sup>2</sup> (11,844 km<sup>2</sup>). Period of record, October 1967 to current year. Gage is a pressure device and telemark read once daily. Datum of gage is at mean sea level (levels by Pacific Power and Light Co.). Extremes for current year: Maximum contents, 60,319 acre-ft (74.4 hm<sup>3</sup>) Mar. 19 (elevation, 2,329.53 ft or 710.041 m); minimum, 50,889 acre-ft (62.7 hm<sup>3</sup>) Oct. 30 (elevation, 2,319.34 ft or 706.935 m). Extremes for period of record: Maximum contents, 61,776 acre-ft (76.2 hm<sup>3</sup>) Mar. 3, 1972 (elevation, 2,330.96 ft or 710.477 m); minimum, 50,103 acre-ft (61.8 hm<sup>3</sup>) Dec. 9, 1968 (elevation, 2,318.40 ft or 706.648 m).

Reservoir is formed by earth- and rockfill dam completed in 1962. Capacity is 58,794 acre-ft (72.5 hm<sup>3</sup>) at elevation 2,328.0 ft (709.57 m), crest of spillway. Records, including extremes, represent contents at 0800 hours. Records of contents furnished by Pacific Power and Light Co.

## MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

Date	Elevation (feet) <sup>a</sup>	Contents (acre-feet)	Change in contents (acre-feet)	Elevation (feet) <sup>a</sup>	Contents (acre-feet)	Change in contents (acre-feet)
Copco Lake				Iron Gate Reservoir		
Sept. 30.....	2,599.84	39,561	--	2,323.48	54,531	--
Oct. 31.....	2,604.65	44,083	+4,522	2,320.30	51,704	-2,827
Nov. 30.....	2,601.19	40,810	-3,273	2,328.49	59,279	+7,575
Dec. 31.....	2,602.20	41,753	+943	2,328.53	59,319	+40
CAL YR 1974.....	--	--	-1,239	--	--	-455
Jan. 31.....	2,602.16	41,715	-38	2,328.55	59,338	+19
Feb. 28.....	2,602.25	41,800	+85	2,328.63	59,418	+80
Mar. 31.....	2,601.04	40,669	-1,131	2,329.43	60,218	+800
Apr. 30.....	2,601.42	41,024	+355	2,328.83	59,616	-602
May 31.....	2,605.26	44,671	+3,647	2,328.01	58,804	-812
June 30.....	2,605.62	45,021	+350	2,326.48	57,325	-1,479
July 31.....	2,605.99	45,380	+359	2,326.62	57,459	+134
Aug. 31.....	2,603.40	42,887	-2,493	2,326.08	56,943	-516
Sept. 30.....	2,600.96	40,595	-2,292	2,326.43	57,278	+335
WTR YR 1975.....	--	--	+1,034	--	--	+2,747

<sup>a</sup> Elevation at 0800.

## KLAMATH RIVER BASIN

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, on left bank 0.1 mi (0.2 km) downstream from Bogus Creek, 0.6 mi (1.0 km) downstream from Iron Gate Dam, and 5.9 mi (9.5 km) north-east of Hornbrook.

DRAINAGE AREA.--4,630 mi<sup>2</sup> (11,990 km<sup>2</sup>), approximately (not including Lost River and Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,162.44 ft (659.112 m) above mean sea level (levels by Pacific Power and Light Co.).

AVERAGE DISCHARGE.--15 years, 2,332 ft<sup>3</sup>/s (66.04 m<sup>3</sup>/s), 1,690,000 acre-ft/yr (2,080 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 8,260 ft<sup>3</sup>/s (234 m<sup>3</sup>/s) Mar. 18 (gage height, 7.99 ft or 2.435 m); minimum daily, 705 ft<sup>3</sup>/s (20.0 m<sup>3</sup>/s) July 6, 7, 26.  
Period of record: Maximum discharge, 29,400 ft<sup>3</sup>/s (833 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 13.63 ft or 4.154 m), from rating curve extended above 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 647 ft<sup>3</sup>/s (18.3 m<sup>3</sup>/s) Oct. 30, Nov. 6, 1960, Sept. 24, Oct. 1, 1961.

REMARKS.--Records excellent. Flow regulated by Upper Klamath Lake, capacity, 523,700 acre-ft (646 hm<sup>3</sup>), other smaller reservoirs, and diversions above station. Iron Gate Dam 0.6 mi (1.0 km) upstream is a re-regulating reservoir (see sta 11516510).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1340	1760	2940	3010	3040	3640	5500	4710	1970	944	986	1340
2	1340	1770	2940	3000	3100	3810	5440	4730	2010	890	992	1340
3	1340	1790	2950	3010	3090	3690	5150	4870	1570	735	992	1340
4	1340	1800	2960	3020	3070	3390	4790	4870	1870	715	986	1340
5	1340	1810	2950	3070	3060	3540	4730	4730	1960	715	986	1540
6	1350	2330	2920	3130	3070	3510	4710	4680	2120	705	986	1550
7	1500	2840	2850	3120	3100	3360	4700	4630	2150	705	998	1570
8	1590	2890	2840	3290	3250	3990	4490	4680	2130	710	1020	1570
9	1710	2830	2920	3260	3720	3820	3900	4740	2120	720	1010	1570
10	1810	2830	3030	3120	3680	3740	3860	4810	1990	720	1020	1570
11	1810	2940	3040	3040	3290	3530	3860	5050	1540	720	1010	1580
12	1810	3070	3060	3060	4500	3400	3930	4970	1280	715	1010	1580
13	1810	3020	3060	3070	4220	3140	4020	4960	1150	720	1020	1580
14	1810	2900	3090	3070	3690	3480	4250	4630	1150	715	1020	1580
15	1810	2890	3130	3090	3510	3460	4280	4820	1150	730	1020	1560
16	1810	2900	3100	3000	3440	3440	4060	4420	1140	730	998	1550
17	1810	2920	3040	2980	3340	3720	3990	4170	902	840	1000	1560
18	1810	2940	3030	3020	3180	6520	4070	4280	835	1050	1000	1650
19	1810	2910	3030	3090	3460	6810	4340	4230	845	1090	1050	1680
20	1800	2940	3040	3000	3510	6000	3790	3930	845	1090	1170	1660
21	1810	2910	3060	3090	3160	5720	3860	3680	845	992	1170	1660
22	1810	2920	3060	3040	3130	5510	4550	3300	840	715	1180	1660
23	1810	2910	3060	3060	3100	5700	4170	3160	805	720	1180	1660
24	1800	2900	3030	3120	3140	5800	3990	2350	765	720	1180	1750
25	1790	2900	3030	3200	3240	6810	4200	2260	780	715	1170	1820
26	1780	2900	2970	3180	3270	5480	3860	2240	890	705	1170	1820
27	1760	2910	2970	3180	3260	5120	3810	2230	902	710	1320	1820
28	1760	2940	3000	3140	3500	5840	3760	2210	950	730	1350	1820
29	1750	2940	2950	3130	---	6020	4090	2210	950	720	1360	1820
30	1750	2940	3010	3030	---	6040	4650	2120	950	715	1340	1820
31	1760	---	3000	3030	---	6140	---	1910	---	730	1340	---
TOTAL	52330	81250	93060	95650	94120	144170	128800	120580	39404	24131	34034	48360
MEAN	1688	2708	3002	3085	3361	4651	4293	3890	1313	778	1098	1612
MAX	1810	3070	3130	3290	4500	6810	5500	5050	2150	1090	1360	1820
MIN	1340	1760	2840	2980	3040	3140	3760	1910	765	705	986	1340
AC-FT	103800	161200	184600	189700	186700	286000	255500	239200	78160	47860	67510	95920

CAL YR 1974	TOTAL	1129346	MEAN	3094	MAX	16000	MIN	720	AC-FT	2240000
WTR YR 1975	TOTAL	955884	MEAN	2619	MAX	6810	MIN	705	AC-FT	1896000

## KLAMATH RIVER BASIN

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11516530 KLAMATH RIVER BELOW IRON GATE DAM, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: October 1961 to current year.

Water temperatures: October 1962 to current year.

EXTREMES.--Current year:

Water temperatures: Maximum, 22.0°C July 28, 29; minimum, 2.5°C on many days during January and February.

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.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
NOV. 07...	1630	2950	--	17	96	0	79	4.0	.75	--
MAR. 18...	1145	5880	3100	16	84	0	69	4.2	.56	1.0
MAY 05...	1135	4740	430	16	82	0	67	4.2	.10	.80

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV. 07...	--	57	0	1.0	100	--	--	--	--	--
MAR. 18...	.26	67	0	.9	0	0	0	0	90	10
MAY 05...	.10	56	0	.9	0	0	0	0	30	10

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT. 08...	0950	1590	205	8.0	15.0	2	5.9
NOV. 07...	1630	2950	176	7.2	10.0	1	9.2
DEC. 09...	1100	2900	179	7.2	7.0	6	10.5
JAN. 15...	0900	3080	163	7.4	2.0	10	12.2
FEB. 18...	1015	3160	176	7.4	3.0	10	12.0
MAR. 18...	1145	5880	190	7.5	7.0	30	12.1
APR. 15...	0945	4300	176	7.8	7.5	10	11.6
MAY 05...	1135	4740	188	7.8	10.0	3	10.4
JUNE 03...	0920	1260	143	8.2	17.0	3	10.2
JULY 17...	1435	992	157	8.1	--	2	9.2
AUG. 06...	0955	992	166	8.4	21.0	3	9.1
SEP. 18...	1110	1600	197	8.0	19.0	1	8.0

## KLAMATH RIVER BASIN

11516530 KLAMATH RIVER BELOW IRON GATE DAM, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	16.0	12.0	12.0	7.0	7.0	3.5	3.0	3.0	3.0	4.5	4.5
2	16.0	16.0	12.0	11.5	7.0	7.0	3.0	3.0	3.0	3.0	4.5	4.5
3	16.0	16.0	11.5	11.5	7.0	6.5	3.0	3.0	3.0	3.0	4.5	4.5
4	16.0	16.0	11.5	11.0	6.5	6.5	3.0	3.0	3.0	3.0	5.0	4.5
5	16.0	15.5	11.0	11.0	6.5	6.5	3.0	3.0	3.0	2.5	5.0	4.5
6	16.0	15.5	11.0	10.5	6.5	6.5	3.0	3.0	2.5	2.5	5.0	5.0
7	15.5	15.0	10.5	10.5	6.5	6.0	3.0	3.0	3.0	2.5	5.5	5.0
8	15.0	15.0	10.5	10.5	6.0	5.5	3.0	3.0	3.0	3.0	6.0	5.5
9	15.0	15.0	10.5	10.5	5.5	5.5	3.0	3.0	3.0	3.0	6.0	6.0
10	15.0	14.5	10.5	10.5	5.5	5.5	3.0	2.5	3.0	3.0	6.5	6.0
11	15.0	14.5	10.5	10.0	5.5	5.5	2.5	2.5	3.0	3.0	6.5	6.5
12	14.5	14.0	10.0	10.0	5.5	5.5	2.5	2.5	3.0	3.0	6.5	6.5
13	14.0	14.0	10.0	9.5	5.5	5.5	2.5	2.5	3.0	3.0	6.5	6.5
14	14.0	14.0	9.5	9.5	5.5	5.5	2.5	2.5	3.0	3.0	6.5	6.5
15	14.0	14.0	9.5	9.0	5.5	5.5	2.5	2.5	3.0	3.0	6.5	6.0
16	14.0	14.0	9.0	9.0	5.5	5.5	2.5	2.5	3.0	3.0	6.5	6.0
17	14.0	13.5	9.0	9.0	5.5	5.5	2.5	2.5	3.0	3.0	6.5	6.0
18	13.5	13.5	9.0	8.5	5.5	5.5	2.5	2.5	3.5	3.0	6.5	6.0
19	13.5	13.5	8.5	8.0	5.5	5.5	2.5	2.5	4.0	3.5	7.0	6.5
20	13.5	13.5	8.0	8.0	5.5	5.0	2.5	2.5	4.0	4.0	7.0	6.5
21	14.0	13.5	8.0	8.0	5.0	5.0	2.5	2.5	4.0	4.0	6.5	6.0
22	13.5	13.5	8.0	8.0	5.0	5.0	2.5	2.5	4.0	4.0	6.0	6.0
23	13.5	13.0	8.0	8.0	5.0	5.0	2.5	2.5	4.0	4.0	6.0	6.0
24	13.0	13.0	8.0	7.5	5.0	4.5	2.5	2.5	4.5	4.0	6.0	6.0
25	13.0	13.0	7.5	7.5	4.5	4.5	2.5	2.5	4.5	4.5	6.5	6.0
26	13.0	13.0	7.5	7.5	4.5	4.5	2.5	2.5	4.5	4.5	6.0	5.5
27	13.0	13.0	7.5	7.5	4.5	4.5	2.5	2.5	4.5	4.5	6.0	6.0
28	13.0	12.5	7.5	7.5	4.5	4.5	2.5	2.5	4.5	4.5	6.0	5.5
29	12.5	12.5	7.5	7.0	4.5	3.5	2.5	2.5	---	---	5.5	5.5
30	12.5	12.0	7.0	7.0	3.5	3.5	2.5	2.5	---	---	5.5	5.5
31	12.0	12.0	---	---	3.5	3.5	3.5	2.5	---	---	5.5	5.5
MONTH	16.0	12.0	12.0	7.0	7.0	3.5	3.5	2.5	4.5	2.5	7.0	4.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	5.5	5.5	10.5	10.0	15.0	14.5	18.0	17.0	20.5	20.0	18.0	17.0
2	5.5	5.5	10.5	10.0	17.0	15.0	18.0	17.5	20.5	20.0	18.0	17.5
3	5.5	5.5	10.0	9.5	18.0	15.0	18.0	17.5	20.5	20.5	17.5	17.5
4	5.5	5.5	9.5	9.5	19.0	16.0	17.5	17.0	20.5	20.0	17.5	17.5
5	6.0	5.5	10.0	9.5	19.0	17.0	17.5	16.5	21.0	20.0	17.5	17.5
6	6.5	6.0	10.5	10.0	18.5	16.5	17.5	17.0	21.5	20.0	17.5	17.5
7	6.5	6.0	10.5	10.0	17.5	16.0	17.5	17.0	20.5	19.5	18.0	17.5
8	6.0	6.0	10.5	10.0	17.0	16.0	18.5	17.0	20.5	20.0	18.0	17.5
9	7.0	6.0	10.5	10.0	17.0	16.0	18.5	18.0	20.5	20.0	17.5	17.5
10	7.0	6.5	10.5	10.5	18.0	16.5	19.0	18.5	20.5	20.0	18.0	17.5
11	7.5	7.0	12.0	10.5	19.5	17.0	20.0	18.5	20.5	20.0	18.5	17.5
12	7.5	7.0	12.0	11.0	20.0	17.5	20.0	18.5	21.0	20.0	18.0	17.5
13	8.0	7.0	12.0	10.5	19.0	17.5	19.5	18.5	20.5	20.0	18.0	18.0
14	8.0	7.5	12.5	12.0	18.0	17.0	19.5	19.0	20.5	20.0	18.0	17.5
15	7.5	7.0	13.5	12.0	18.5	17.5	19.0	19.0	20.5	20.0	18.0	17.5
16	8.0	7.5	14.0	12.0	19.0	17.5	19.5	19.0	20.5	20.0	---	---
17	8.0	8.0	14.0	12.5	18.0	17.0	19.5	19.0	20.0	19.5	---	---
18	8.0	8.0	15.0	14.0	17.5	16.0	19.5	19.0	19.5	19.5	---	---
19	9.0	8.0	14.5	13.5	17.5	16.5	20.0	19.5	20.0	19.5	---	---
20	8.5	8.0	13.5	13.0	18.0	17.0	20.0	19.5	20.0	19.5	---	---
21	8.5	8.0	14.0	12.5	18.5	17.5	20.5	20.0	19.5	19.5	---	---
22	8.5	8.0	14.5	13.0	18.5	17.5	20.5	20.5	20.0	19.5	---	---
23	8.5	8.0	15.0	13.5	18.0	17.5	20.5	20.5	20.0	19.5	---	---
24	8.5	8.5	14.5	13.0	17.5	17.0	21.0	20.5	19.5	19.5	---	---
25	8.5	8.5	14.5	12.0	17.0	17.0	21.0	20.5	19.5	19.5	---	---
26	8.5	8.5	15.0	13.0	18.0	17.0	20.5	20.5	19.5	18.5	---	---
27	9.5	8.5	15.5	13.5	17.5	17.0	21.5	20.5	19.0	18.0	---	---
28	9.5	8.5	15.5	13.5	18.0	17.0	22.0	21.0	18.0	17.5	---	---
29	9.5	9.5	16.0	14.0	18.0	17.5	22.0	21.0	17.5	17.5	---	---
30	10.5	9.5	16.0	14.0	17.5	17.5	21.0	20.0	18.0	17.5	---	---
31	---	---	16.0	14.0	---	---	20.5	20.0	18.0	17.5	---	---
MONTH	10.5	5.5	16.0	9.5	20.0	14.5	22.0	16.5	21.5	17.5	---	---



LOCATION.--Lat 41°45'11", long 122°17'42", in NW¼NW¼ sec.15, T.45 N., R.4 W., Siskiyou County, on right bank 0.5 mi (0.8 km) downstream from Dry Creek, and 12 mi (19 km) east of Montague.

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

GAGE.--Water-stage recorder. Altitude of gage is 3,360 ft (1,024 m), from topographic map. Prior to May 27, 1965, water-stage recorder at site 0.2 mi (0.3 km) downstream at different datum.

AVERAGE DISCHARGE.--18 years, 20.2 ft<sup>3</sup>/s (0.572 m<sup>3</sup>/s), 14,630 acre-ft/yr (18.0 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 162 ft<sup>3</sup>/s (4.59 m<sup>3</sup>/s) Mar. 18 (gage height, 2.77 ft or 0.844 m); minimum daily, 4.8 ft<sup>3</sup>/s (0.14 m<sup>3</sup>/s) Nov. 29.  
Period of record: Maximum discharge, 5,910 ft<sup>3</sup>/s (167 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 12.2 ft or 3.72 m, present site and datum), from slope-area measurement of maximum flow; minimum daily, 0.60 ft<sup>3</sup>/s (0.017 m<sup>3</sup>/s) Jan. 4, 1966.

REMARKS.--No known diversion or regulation above station.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.3	5.3	5.1	6.5	7.5	52	30	52	107	26	13	8.8
2	5.3	4.9	5.6	6.2	7.5	43	28	55	106	25	13	8.7
3	5.4	4.9	5.7	6.5	7.2	33	26	59	105	24	12	8.4
4	5.4	4.9	7.5	6.5	7.2	31	23	63	101	23	12	8.1
5	5.4	4.9	6.0	6.7	7.3	31	21	67	98	22	12	8.0
6	5.3	4.9	5.7	7.0	7.6	33	19	71	93	21	12	8.0
7	5.3	5.7	5.8	7.5	12	42	19	77	88	20	12	8.0
8	5.3	5.4	5.4	7.5	19	77	20	81	83	20	11	7.8
9	5.4	5.2	5.4	7.2	57	48	22	88	79	19	11	7.8
10	5.2	5.4	5.0	7.1	28	35	23	92	74	19	11	7.7
11	5.2	5.2	7.6	6.7	20	28	22	98	70	18	11	7.8
12	5.2	5.1	8.8	6.3	27	23	30	103	67	19	10	7.9
13	5.2	4.9	7.0	7.9	42	22	41	110	64	19	10	11
14	5.1	4.9	12	8.0	27	21	40	114	61	18	9.9	12
15	5.1	4.9	23	7.8	18	21	35	122	59	21	9.7	8.3
16	5.0	4.9	13	7.5	15	18	32	127	55	20	9.4	7.8
17	4.9	5.2	9.0	7.2	12	15	29	125	52	18	10	7.7
18	4.9	6.5	6.7	7.0	12	69	29	124	49	17	12	7.6
19	4.9	4.9	6.6	6.7	13	78	56	120	45	17	10	7.5
20	5.0	4.9	9.2	6.7	13	41	50	106	43	17	9.7	7.4
21	5.0	5.2	8.3	7.0	9.4	26	55	101	40	16	9.4	7.4
22	5.1	5.3	5.9	7.2	10	22	56	99	36	16	9.2	7.3
23	5.1	5.2	6.0	7.5	11	22	52	104	33	15	9.2	7.3
24	5.0	5.2	6.0	7.8	15	27	62	101	37	15	8.7	7.2
25	5.0	5.5	6.0	8.0	21	53	52	96	38	15	8.4	7.2
26	5.1	5.3	5.9	8.5	24	31	42	95	34	14	8.3	7.1
27	5.2	5.3	6.0	8.8	42	24	38	99	31	14	8.4	7.0
28	6.0	5.3	6.2	8.3	56	21	40	100	29	14	10	7.0
29	5.6	4.8	6.5	8.0	---	27	44	102	28	14	8.9	7.1
30	5.3	5.0	6.5	7.8	---	41	48	104	27	14	8.9	7.0
31	5.9	---	6.5	7.8	---	38	---	106	---	13	8.8	---
TOTAL	162.1	155.0	229.9	227.2	547.7	1093	1084	2961	1832	563	318.9	237.9
MEAN	5.23	5.17	7.42	7.33	19.6	35.3	36.1	95.5	61.1	18.2	10.3	7.93
MAX	6.0	6.5	23	8.8	57	78	62	127	107	26	13	12
MIN	4.9	4.8	5.0	6.2	7.2	15	19	52	27	13	8.3	7.0
AC-FT	322	307	456	451	1090	2170	2150	5870	3630	1120	633	472
CAL YR 1974	TOTAL	9063.1	MEAN	24.8	MAX	192	MIN	4.8	AC-FT	17980		
WTR YR 1975	TOTAL	9411.7	MEAN	25.8	MAX	127	MIN	4.8	AC-FT	18670		

## KLAMATH RIVER BASIN

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, on right bank 0.5 mi (0.8 km) upstream from mouth, and 7 mi (11 km) north of Yreka.

DRAINAGE AREA.--793 mi<sup>2</sup> (2,054 km<sup>2</sup>).

PERIOD OF RECORD.--October 1933 to December 1941, December 1944 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,000 ft (610 m), from topographic map. Prior to Nov. 2, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--38 years, 189 ft<sup>3</sup>/s (5.352 m<sup>3</sup>/s), 136,900 acre-ft/yr (169 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,630 ft<sup>3</sup>/s (74.5 m<sup>3</sup>/s) Mar. 18 (gage height, 7.13 ft or 2.173 m); minimum daily, 36 ft<sup>3</sup>/s (1.02 m<sup>3</sup>/s) Aug. 6.

Period of record: Maximum discharge, 21,500 ft<sup>3</sup>/s (609 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 12.92 ft or 3.938 m in gage well, 13.85 ft or 4.221 m, from floodmarks), from rating curve extended above 4,100 ft<sup>3</sup>/s (116 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum, 3.4 ft<sup>3</sup>/s (0.10 m<sup>3</sup>/s) Aug. 13, 1939, when about 2 ft<sup>3</sup>/s (0.06 m<sup>3</sup>/s) was being diverted around gage.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow partly regulated by Lake Dwinnell beginning in 1928; storage limited to 50,000 acre-ft (61.6 hm<sup>3</sup>). Many diversions above station for irrigation.

REVISIONS.--WSP 1929: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	259	198	176	215	348	542	218	295	129	68	69
2	95	236	191	178	230	343	509	216	275	122	52	65
3	100	204	188	175	237	323	479	216	261	124	42	63
4	109	199	202	185	261	308	456	222	258	101	39	63
5	107	199	213	278	269	313	440	248	227	90	39	64
6	110	198	198	436	304	316	429	262	213	74	36	69
7	118	201	192	376	413	324	409	240	208	57	38	65
8	137	208	188	472	352	503	419	222	202	49	49	60
9	144	202	188	361	366	854	403	238	182	58	47	48
10	157	198	186	265	410	641	367	282	167	54	40	54
11	159	195	189	255	351	503	347	328	143	44	45	60
12	152	194	193	255	767	458	353	348	137	57	45	57
13	156	189	195	238	919	420	351	330	127	67	43	76
14	163	189	193	226	689	456	377	370	123	77	45	104
15	169	194	193	226	521	459	444	400	129	100	39	116
16	163	194	193	224	427	416	478	440	108	120	46	72
17	166	194	186	215	347	457	450	408	101	110	43	76
18	174	204	183	212	313	1750	387	376	100	111	57	85
19	175	199	181	212	408	1900	373	354	111	96	64	74
20	177	197	184	212	534	1300	328	370	111	90	58	66
21	179	193	193	212	427	993	336	350	100	88	57	67
22	171	191	198	209	363	925	370	285	101	69	56	79
23	171	195	192	209	331	1200	393	250	94	70	64	83
24	171	197	184	209	309	1180	380	268	140	69	78	73
25	171	193	181	224	303	1580	410	275	178	72	76	83
26	165	194	181	240	319	1130	442	268	154	87	71	93
27	171	206	197	235	304	923	415	254	141	78	70	94
28	179	202	203	229	329	762	340	270	145	74	69	93
29	198	200	188	225	---	646	290	282	134	71	70	96
30	203	198	183	219	---	579	244	300	130	75	66	88
31	242	---	178	214	---	571	---	319	---	73	67	---
TOTAL	4872	6022	5912	7602	11018	22881	11961	9209	4795	2556	1679	2255
MEAN	157	201	191	245	394	738	399	297	160	82.5	54.2	75.2
MAX	242	259	213	472	919	1900	542	440	295	129	78	116
MIN	95	189	178	175	215	308	244	216	94	44	36	48
AC-FT	9660	11940	11730	15080	21850	45380	23720	18270	9510	5070	3330	4470
CAL YR 1974 TOTAL	124146											
WTR YR 1975 TOTAL	90762											
MEAN 340												
MAX 5800												
MIN 38												
AC-FT 246200												
MIN 36												
AC-FT 180000												

NOTE.--No gage-height record May 4 to June 2.

## 11517500 SHASTA RIVER NEAR YREKA, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: December 1958 to September 1971, water years 1972 to current year (partial-record station).

Water temperatures: June 1965 to current year.

Sediment records: Water years 1955-56, 1958-62 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 28.5°C July 23, 24, 26, 27; minimum, 1.5°C Dec. 29, 31, Jan. 2, 3.

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 May 4 to June 2; range in temperature, 9.0°C to 23.0°C.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
JAN. 15...	0945	--	226	--	--	--	42	--	314	7
MAR. 18...	1250	--	1750	13000	21	22	23	3.5	198	0
MAY 05...	1220	248	--	180	--	--	32	--	310	0

DATE	ALKA- LINIT AS CACO3 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)
JAN. 15...	269	--	24	--	--	--	--	--	--
MAR. 18...	162	14	8.7	.34	1.5	.70	213	.29	1010
MAY 05...	254	--	17	.01	.60	.12	--	--	--

DATE	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JAN. 15...	251	0	1.2	0	--	--	--	--	--
MAR. 18...	142	0	.8	300	20	20	540	0	40
MAY 05...	246	0	.9	400	0	0	20	10	10

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
NOV. 08...	0740	--	198	507	8.2	8.0	3	11.4
JAN. 15...	0945	--	226	568	8.2	4.0	1	11.9
MAR. 18...	1250	--	1750	335	8.2	6.0	160	10.5
MAY 05...	1220	248	--	517	8.2	12.0	1	10.2
JULY 17...	1520	--	112	538	8.2	26.0	3	7.3
SEP. 18...	1030	--	83	605	8.4	18.0	2	9.0

11517500 SHASTA RIVER NEAR YREKA, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	16.0	10.0	8.5	7.0	5.5	3.0	2.0	3.5	2.5	11.5	9.0
2	18.0	14.5	10.0	8.0	8.0	7.0	3.0	1.5	4.5	3.0	10.5	8.5
3	18.0	14.0	9.5	7.5	7.5	6.5	2.5	1.5	6.0	4.0	10.0	7.5
4	17.0	13.5	9.0	7.0	8.0	7.5	4.0	2.5	5.5	3.5	11.0	8.0
5	15.5	12.0	10.0	8.5	8.5	7.0	4.5	3.5	5.5	4.0	11.0	8.0
6	15.5	11.5	11.0	9.0	8.0	7.5	4.5	3.5	7.0	5.0	11.0	9.5
7	16.0	11.5	10.0	9.0	8.5	7.5	5.5	4.5	7.5	5.0	10.5	9.5
8	14.5	12.0	9.5	8.0	7.5	6.5	5.5	4.0	8.5	7.0	10.5	8.5
9	16.0	12.5	10.0	8.5	7.5	6.5	4.0	3.5	8.5	7.5	9.5	7.5
10	16.0	12.5	10.5	9.0	6.5	5.5	5.0	3.0	7.5	6.0	10.0	8.5
11	16.0	13.0	10.0	8.5	7.5	6.5	6.0	5.0	7.0	5.5	10.5	8.0
12	16.0	12.5	10.0	8.0	8.5	7.5	6.0	5.0	7.0	6.0	10.5	7.5
13	15.5	12.0	9.5	8.0	8.0	7.0	6.0	5.0	7.0	5.0	10.0	8.0
14	15.0	12.0	10.0	8.0	8.5	7.5	5.0	4.5	7.0	5.5	9.5	6.5
15	15.0	12.0	9.0	8.0	9.5	8.5	5.0	4.0	6.0	4.0	9.0	8.0
16	15.0	12.0	8.5	7.0	10.0	8.5	5.5	4.5	6.5	4.5	9.0	7.0
17	14.5	11.5	8.5	7.0	8.5	7.5	5.5	4.5	6.5	4.0	8.0	6.5
18	14.5	11.5	8.5	8.0	7.5	6.0	5.5	5.0	7.0	5.5	7.0	5.0
19	14.0	11.0	9.0	8.0	6.5	6.0	5.0	5.0	7.0	6.5	8.5	6.5
20	13.5	11.0	9.5	8.5	7.5	6.0	6.0	5.0	7.0	5.5	8.5	6.5
21	12.5	10.0	10.0	9.0	7.0	6.5	6.0	5.0	7.0	4.5	7.5	4.0
22	12.5	10.0	9.0	7.5	6.5	5.0	6.5	5.0	7.5	4.5	6.5	3.0
23	12.0	9.5	9.0	8.0	5.5	4.0	7.5	6.0	8.5	5.5	8.0	6.0
24	12.0	9.5	8.5	7.5	4.5	3.0	8.5	7.0	10.0	6.5	7.5	6.0
25	12.5	9.5	9.5	7.5	4.0	3.5	8.5	7.5	10.5	7.5	8.5	6.5
26	12.5	10.5	8.0	6.5	5.0	4.0	8.0	6.0	10.0	8.0	8.0	5.0
27	12.5	11.5	8.5	7.0	5.0	4.0	6.5	4.5	10.5	8.5	8.5	6.0
28	12.0	11.0	7.5	6.5	4.5	3.0	5.0	3.5	11.5	9.5	9.0	5.5
29	11.5	10.5	7.0	5.5	3.0	1.5	4.5	3.0	---	---	11.0	6.5
30	10.5	9.0	6.5	5.5	3.0	2.5	4.5	2.5	---	---	12.5	8.5
31	10.5	10.0	---	---	2.5	1.5	4.0	2.0	---	---	10.5	7.5
MONTH	19.0	9.0	11.0	5.5	10.0	1.5	8.5	1.5	11.5	2.5	12.5	3.0

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	7.0	18.0	11.5	---	---	21.5	15.5	26.0	18.0	21.5	14.5
2	10.5	8.5	16.0	12.5	---	---	22.0	15.5	27.0	19.0	21.5	14.5
3	10.0	7.5	15.0	12.0	22.0	17.5	23.5	16.0	27.5	19.0	22.0	15.5
4	9.5	6.5	---	---	23.5	17.5	22.5	17.5	27.5	20.0	23.0	16.0
5	9.0	6.5	---	---	24.5	19.0	23.5	17.5	27.5	20.0	23.5	16.0
6	10.0	6.5	---	---	24.5	19.5	24.5	16.5	24.5	19.0	24.0	17.5
7	9.5	7.5	---	---	22.5	18.5	25.5	17.5	25.0	16.5	23.0	16.5
8	11.0	8.0	---	---	22.5	17.0	26.5	18.0	26.0	17.5	23.0	16.5
9	13.0	8.5	---	---	23.0	17.5	27.5	19.5	27.0	19.0	22.5	17.5
10	12.5	9.0	---	---	24.5	18.0	28.0	20.5	26.5	18.5	23.0	18.0
11	13.0	9.0	---	---	25.0	18.5	28.0	21.0	27.0	19.0	24.0	18.0
12	14.5	9.0	---	---	26.0	18.5	26.5	21.0	27.5	19.5	24.0	18.5
13	13.5	10.5	---	---	25.0	19.0	27.0	19.0	26.5	19.0	24.5	19.0
14	11.5	9.5	---	---	26.0	18.0	23.5	19.5	26.5	19.0	23.0	18.0
15	10.5	7.5	---	---	25.5	19.0	21.5	19.5	26.5	19.0	21.5	17.0
16	11.5	7.0	---	---	24.0	18.0	25.5	19.0	24.5	19.5	21.5	16.0
17	11.5	8.5	---	---	20.5	16.0	25.5	19.0	22.0	19.5	21.5	16.0
18	13.0	9.0	---	---	21.5	15.0	25.5	19.5	21.5	18.0	20.5	15.5
19	14.5	10.5	---	---	20.0	16.0	27.0	20.0	23.5	16.5	21.5	15.5
20	15.0	10.0	---	---	23.5	16.0	28.0	21.0	24.0	16.5	21.5	16.5
21	15.5	10.5	---	---	24.0	16.5	28.0	21.5	24.0	17.0	20.5	15.5
22	13.5	11.0	---	---	24.0	17.0	28.0	21.0	24.0	18.0	20.0	14.5
23	12.5	11.0	---	---	20.5	16.5	28.5	21.0	23.5	18.5	20.0	15.0
24	12.0	10.5	---	---	17.5	14.5	28.5	21.0	24.0	17.5	20.0	14.0
25	10.5	8.5	---	---	18.5	13.0	28.0	20.5	24.0	17.0	20.0	14.5
26	10.5	8.5	---	---	21.0	14.5	28.5	21.0	23.5	17.5	19.5	14.5
27	13.0	9.0	---	---	20.5	15.0	28.5	21.5	22.0	17.0	19.5	15.0
28	15.0	9.0	---	---	21.0	15.5	28.0	22.0	21.5	16.0	19.0	14.5
29	16.0	10.0	---	---	22.0	15.0	24.0	20.0	22.0	15.0	18.5	13.5
30	17.0	11.0	---	---	21.5	15.5	23.5	17.0	21.5	15.5	18.0	13.5
31	---	---	---	---	---	---	24.5	17.0	21.5	14.5	---	---
MONTH	17.0	6.5	---	---	26.0	13.0	28.5	15.5	27.5	14.5	24.5	13.5

## 11519500 SCOTT RIVER NEAR FORT JONES, CALIF.

LOCATION.--Lat 41°38'27", long 123°00'50", in NE¼NE¼ sec.29, T.44 N., R.10 W., Siskiyou County, on right bank 1.8 mi (2.9 km) upstream from Snow Creek, and 9.0 mi (14.5 km) west of Fort Jones.

DRAINAGE AREA.--653 mi<sup>2</sup> (1,691 km<sup>2</sup>).

PERIOD OF RECORD.--December 1941 to current year. Monthly discharge only October to December 1941, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 2,623.80 ft (799.734 m) above mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1966, water-stage recorder 400 ft (122 m) downstream at datum 2.00 ft (0.610 m) higher.

AVERAGE DISCHARGE.--34 years, 688 ft<sup>3</sup>/s (19.49 m<sup>3</sup>/s), 498,500 acre-ft/yr (615 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 8,400 ft<sup>3</sup>/s (238 m<sup>3</sup>/s) Mar. 19 (gage height, 13.50 ft or 4.115 m); minimum daily, 67 ft<sup>3</sup>/s (1.90 m<sup>3</sup>/s) Oct. 15, 16.  
Period of record: Maximum discharge, 54,600 ft<sup>3</sup>/s (1,550 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 25.34 ft or 7.724 m, from floodmarks, site and datum then in use), from rating curve extended above 15,000 ft<sup>3</sup>/s (425 m<sup>3</sup>/s) on basis of slope-area measurement at 21.40 ft (6.523 m); minimum, 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) Sept. 14, 15, 1955.

REMARKS.--Records good. Diversions for irrigation of about 30,000 acres (121 km<sup>2</sup>) above station.

REVISIONS (WATER YEARS).--WSP 1445: 1942-43(M), 1946(M), 1948. WSP 1715: 1951-52(M). WSP 1929: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	92	135	162	333	1670	1940	1270	3530	554	125	81
2	72	92	139	160	342	1870	1770	1430	3740	548	128	80
3	73	92	145	156	328	1660	1680	1610	3240	540	135	76
4	76	92	405	175	329	1420	1540	1650	2870	542	125	76
5	75	92	310	258	319	1260	1400	1440	2890	539	114	76
6	74	92	226	787	307	1160	1300	1270	2860	526	107	76
7	74	100	196	639	341	1280	1210	1200	2650	494	109	74
8	76	108	182	954	421	2480	1240	1290	2280	468	107	74
9	74	118	172	722	842	1870	1160	1600	2070	438	102	72
10	73	118	164	543	1080	1490	1110	1950	2040	434	100	70
11	70	119	162	481	890	1390	1100	2040	2040	431	104	69
12	70	118	188	444	2170	1280	1110	2000	2130	424	100	73
13	68	118	225	416	3490	1160	1210	2140	2180	461	95	78
14	68	118	220	393	2010	1090	1330	2900	2180	438	94	81
15	67	118	237	367	1400	1010	1320	3600	2140	423	90	82
16	67	117	236	351	1110	974	1210	3000	2000	435	93	83
17	70	117	219	333	929	1040	1120	2810	1640	420	97	88
18	70	123	203	324	830	4510	1050	2790	1370	398	101	90
19	72	132	192	323	1040	6370	1050	2860	1200	360	99	90
20	72	131	183	323	1690	3190	1100	2410	1100	333	97	86
21	72	130	189	323	1160	2450	1160	1960	1060	310	94	85
22	74	148	194	319	971	2200	1220	1750	997	271	93	84
23	74	159	184	318	869	1990	1230	1800	973	238	94	83
24	76	147	170	335	813	2120	1370	2090	875	227	93	84
25	76	145	162	403	791	5430	1630	2040	804	215	94	81
26	76	142	162	453	774	4110	1410	1910	724	201	91	82
27	76	140	187	444	837	3030	1240	2150	659	191	87	80
28	78	140	188	406	1390	2380	1160	2320	619	182	86	78
29	78	139	179	383	---	2130	1120	2450	593	158	86	78
30	80	137	168	344	---	2120	1170	2900	579	136	85	78
31	88	---	166	338	---	2110	---	3310	---	128	83	---
TOTAL	2283	3634	6088	12377	27806	68244	38660	65940	54033	11463	3108	2388
MEAN	73.6	121	196	399	993	2201	1289	2127	1801	370	100	79.6
MAX	88	159	405	954	3490	6370	1940	3600	3740	554	135	90
MIN	67	92	135	156	307	974	1050	1200	579	128	83	69
AC-FT	4530	7210	12080	24550	55150	135400	76680	130800	107200	22740	6160	4740
CAL YR 1974 TOTAL	438274			MEAN 1201	MAX 30900	MIN 65	AC-FT 869300					
WTR YR 1975 TOTAL	296024			MEAN 811	MAX 6370	MIN 67	AC-FT 587200					

Peak discharge (base, 2,000 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-12	2330	10.77	4,300	3-25	1430	12.39	6,530
3-8	1300	9.37	2,710	5-15	0745	10.47	3,940
3-19	0430	13.50	8,400	6-2	0800	10.55	4,040

## KLAMATH RIVER BASIN

11519500 SCOTT RIVER NEAR FORT JONES, CALIF.--Continued

PERIOD OF RECORD: Chemical analyses: November 1958 to September 1969, water years 1970 to current year (partial-record station).  
Sediment records: September 1955 to May 1956 (partial-record station).

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
MAY 05...	1635	1380	1200	2.6	105	0	86	1.1	.18	.20

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
MAY 05...	.05	88	2	.1	0	0	0	0	30	20

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
NOV. 08...	1100	106	192	7.8	8.0	2	12.7
JAN. 15...	1245	338	211	7.4	5.0	3	11.0
MAY 05...	1635	1380	176	7.6	11.0	7	10.0
JULY 17...	1625	388	201	8.0	22.0	3	9.0
SEP. 17...	1535	88	310	8.4	21.0	1	11.6

## 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, on left bank 0.4 mi (0.6 km) upstream from Bittenbender Creek, 1.4 mi (2.3 km) downstream from Grider Creek, and 2.2 mi (3.5 km) west of Seiad Valley.

DRAINAGE AREA.--6,940 mi<sup>2</sup> (17,975 km<sup>2</sup>), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1912 to September 1925, July 1951 to current year. Monthly discharges only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m) from river-profile map. November 1912 to June 1925, nonrecording gage at site 3.5 mi (5.6 km) upstream at different datum.

AVERAGE DISCHARGE.--37 years, 4,218 ft<sup>3</sup>/s (119.5 m<sup>3</sup>/s), 3,056,000 acre-ft/yr (3.77 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 26,900 ft<sup>3</sup>/s (762 m<sup>3</sup>/s) Mar. 19 (gage height, 14.18 ft or 4.322 m, from floodmarks); minimum daily, 1,300 ft<sup>3</sup>/s (36.8 m<sup>3</sup>/s) July 29-31.  
Period of record: Maximum discharge, 165,000 ft<sup>3</sup>/s (4,670 m<sup>3</sup>/s) Dec. 23, 1964 (gage height, 33.75 ft or 10.287 m, from floodmarks), from rating curve extended above 49,000 ft<sup>3</sup>/s (1,390 m<sup>3</sup>/s) on basis of slope-area measurements at gage heights 20.1 ft (6.13 m) and 29.2 ft (8.90 m); minimum daily, 320 ft<sup>3</sup>/s (9.06 m<sup>3</sup>/s) Nov. 25, 1917.

REMARKS.--Records good. Flow regulated considerably by reservoirs and powerplants above station. Large diversions above station for irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1710	2340	3550	3770	3950	7810	11500	8440	9140	2580	1480	1710
2	1680	2340	3630	3750	4000	8480	10800	8680	9640	2540	1470	1720
3	1670	2310	3650	3760	3950	8050	10300	9120	8640	2450	1460	1710
4	1690	2310	3870	3960	4030	7250	9680	9430	8040	2260	1470	1720
5	1700	2310	3910	4550	3960	6850	9020	8730	8110	2230	1450	1770
6	1700	2480	3750	5500	3930	6720	8710	8250	8240	2180	1460	1920
7	1710	3260	3630	5270	4210	6510	8460	8060	7860	2120	1460	1930
8	1960	3590	3570	6080	4580	8390	8230	8300	7200	2040	1480	1920
9	2000	3440	3520	5550	5690	8550	7610	9000	6760	2100	1500	1910
10	2190	3450	3710	4740	6580	7710	7110	9810	6590	2030	1470	1900
11	2220	3450	3790	4400	5890	7050	7100	10200	6210	2010	1470	1900
12	2210	3670	3890	4260	8850	6540	7220	10200	5900	2010	1460	1890
13	2210	3680	3960	4150	13700	6000	7700	10600	5690	2100	1450	1910
14	2210	3540	3990	4070	9530	6040	8160	11400	5600	2080	1450	1970
15	2220	3490	4110	4030	7440	6080	8230	12600	5530	2090	1450	1980
16	2210	3490	4080	4000	6580	5980	7850	11700	5270	2140	1430	1930
17	2210	3520	3970	3830	5970	5990	7450	10900	4630	2210	1430	1920
18	2220	3670	3870	3890	5510	13700	7200	10900	3980	2420	1500	1930
19	2230	3580	3830	3970	6040	22600	7800	11100	3710	2600	1480	2080
20	2230	3580	3840	4020	8080	15500	7230	9910	3540	2590	1550	2030
21	2230	3570	3940	4030	6550	13200	7290	8920	3420	2420	1600	2020
22	2230	3580	3940	3970	5870	11900	7910	7970	3280	1940	1590	2010
23	2240	3580	3870	3920	5570	11700	8010	7860	3200	1580	1590	2010
24	2230	3550	3820	4020	5400	12100	8170	7550	3060	1420	1610	2020
25	2230	3570	3790	4290	5480	19600	8830	6920	2970	1380	1600	2150
26	2220	3550	3780	4500	5590	17000	8120	6680	2850	1360	1590	2170
27	2230	3550	4020	4340	5720	15300	7570	7000	2780	1310	1610	2170
28	2320	3560	3980	4180	7060	13400	7260	7290	2730	1340	1750	2160
29	2290	3560	3800	4090	---	12000	7240	7530	2680	1300	1750	2150
30	2270	3550	3820	3950	---	12100	7930	8350	2630	1300	1740	2150
31	2310	---	3790	3920	---	12400	---	8830	---	1300	1720	---
TOTAL	64980	99120	118670	132760	169710	322500	245690	282230	159880	61430	47520	58760
MEAN	2096	3304	3828	4283	6061	10400	8190	9104	5329	1982	1533	1959
MAX	2320	3680	4110	6080	13700	22600	11500	12600	9640	2600	1750	2170
MIN	1670	2310	3520	3750	3930	5980	7100	6680	2630	1300	1430	1710
AC-FT	128900	196600	235400	263300	336600	639700	487300	559800	317100	121800	94260	116600
CAL YR 1974 TOTAL	2381860			6526		108000	1320	4724000				
WTR YR 1975 TOTAL		1763250		4831		22600	1300	3497000				

## 11520500 KLAMATH RIVER NEAR SHIAD VALLEY, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: December 1958 to September 1966.

Water temperatures: October 1963 to current year.

Sediment records: Water years 1955-56 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 25.5°C July 26-28; minimum, 1.5°C Dec. 31, Jan. 3.

Period of record:

Water temperatures: Maximum, 29.5°C July 26, 1970; minimum (1963-64, 1966 to current year), 0.5°C on several days in 1967, 1968, and 1971-73.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	16.0	12.0	11.0	7.0	6.5	3.0	2.0	3.5	2.5	7.0	6.5
2	18.5	16.0	11.5	9.5	8.0	7.0	2.5	2.0	3.0	2.5	7.0	6.0
3	18.0	15.5	11.5	9.5	7.5	7.5	2.5	1.5	3.5	3.0	6.5	6.0
4	17.5	15.0	11.5	10.0	8.0	7.5	3.5	2.0	3.5	2.5	7.5	6.5
5	16.5	14.0	12.0	10.0	7.5	7.0	3.5	3.0	4.0	3.0	7.5	6.5
6	16.5	14.0	13.0	11.5	8.0	7.5	4.5	3.5	4.5	4.0	8.0	7.5
7	16.5	13.5	12.0	11.0	8.5	7.0	4.5	4.0	5.5	4.5	8.5	7.5
8	16.5	14.0	11.0	10.0	7.5	6.5	4.5	3.5	6.0	5.0	8.0	7.5
9	17.0	14.5	11.5	10.5	7.0	6.5	3.5	2.0	6.0	5.0	8.0	7.0
10	17.0	14.5	12.5	11.5	6.5	6.0	3.5	2.0	5.0	4.5	8.5	7.5
11	17.0	14.0	11.5	10.5	7.0	6.0	4.0	3.5	5.5	5.0	8.5	7.0
12	17.0	14.0	11.0	10.5	7.5	6.5	4.0	3.5	5.0	4.5	8.5	7.0
13	16.5	14.0	11.0	10.0	6.5	6.0	4.0	3.5	6.0	5.0	7.5	6.5
14	16.5	14.0	11.0	10.0	7.0	6.5	3.5	3.0	6.0	4.5	7.5	6.0
15	16.5	14.0	10.5	9.5	7.5	7.0	3.5	2.5	5.0	4.0	7.5	6.0
16	16.5	13.5	10.0	9.0	7.5	7.0	3.5	2.5	5.0	4.0	6.5	6.5
17	16.0	12.5	10.0	9.5	7.0	6.0	3.5	3.0	5.0	4.0	6.5	4.0
18	16.0	13.0	10.5	9.5	6.0	5.5	3.5	2.5	5.0	4.5	5.5	3.5
19	16.0	13.0	9.5	9.0	6.0	5.5	4.0	2.5	5.0	4.5	7.0	5.5
20	15.0	13.0	10.5	9.0	6.5	6.0	4.0	3.5	5.5	4.5	7.0	6.5
21	14.0	12.0	10.5	8.5	6.5	5.5	4.5	3.5	5.0	4.0	7.0	4.5
22	14.0	12.0	8.5	8.5	5.5	5.0	4.0	3.5	5.0	4.0	6.0	4.5
23	14.5	12.0	9.5	8.5	5.0	4.0	5.0	4.0	6.0	4.5	6.5	6.0
24	14.0	12.0	9.0	8.5	4.0	3.5	6.0	5.0	6.5	5.5	6.5	6.5
25	14.0	11.5	9.0	8.0	4.5	3.5	6.0	5.5	7.0	6.0	6.5	6.0
26	14.0	12.0	8.5	7.5	4.5	4.0	5.5	4.0	6.5	6.0	6.5	6.0
27	14.0	12.5	8.5	7.5	4.5	3.5	4.5	3.0	6.5	6.0	7.0	6.0
28	13.5	12.5	8.0	7.0	4.5	3.0	3.0	2.5	7.5	6.5	6.5	5.0
29	13.5	12.0	7.5	6.5	3.0	2.5	3.5	2.0	---	---	7.0	5.5
30	12.5	11.5	7.0	6.5	3.0	2.5	3.0	2.0	---	---	7.5	6.0
31	13.0	11.5	---	---	2.5	1.5	3.5	2.0	---	---	7.5	6.0
MONTH	19.0	11.5	13.0	6.5	8.5	1.5	6.0	1.5	7.5	2.5	8.5	3.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	5.5	11.5	10.0	14.5	13.0	16.5	14.5	22.5	17.5	19.5	16.0
2	7.0	6.0	11.5	10.5	14.0	13.0	17.0	13.5	23.5	19.5	19.5	16.0
3	7.0	6.5	10.5	9.5	14.5	13.5	18.0	14.5	24.0	20.0	20.5	16.5
4	7.0	5.5	9.5	8.5	15.5	12.5	18.5	16.5	24.0	20.0	20.5	17.0
5	7.0	6.0	10.0	9.0	16.0	14.0	19.0	16.0	23.5	20.0	21.0	17.5
6	8.0	6.0	11.5	9.5	16.0	14.5	19.5	16.5	22.5	19.0	21.5	18.0
7	7.5	7.0	12.0	10.0	15.0	13.5	20.0	17.0	22.0	18.0	20.5	17.0
8	8.5	7.0	12.5	11.0	15.5	13.0	20.5	19.5	22.5	18.5	21.0	17.5
9	9.5	7.5	13.0	11.5	16.0	13.5	21.5	18.0	23.5	19.5	20.5	18.0
10	9.5	8.0	12.5	10.5	16.5	14.0	22.0	18.5	24.0	19.5	21.0	18.0
11	9.5	7.5	12.5	10.0	16.5	14.0	23.0	19.5	24.0	20.0	21.5	18.0
12	10.0	8.0	13.0	10.5	17.0	14.0	22.5	19.5	24.5	20.5	22.0	18.5
13	10.0	8.5	13.5	11.0	17.0	14.5	21.5	18.0	24.0	19.5	22.0	19.5
14	9.0	8.0	13.0	11.5	17.5	14.5	20.5	18.5	23.5	19.5	22.0	18.5
15	8.0	7.0	12.5	11.5	17.5	14.5	19.5	18.0	23.5	19.5	21.5	18.5
16	8.5	7.0	13.0	11.5	16.5	14.0	21.0	17.5	23.0	19.5	20.5	17.5
17	9.0	7.5	13.5	11.5	15.5	13.0	21.0	18.0	21.5	19.0	21.0	17.0
18	10.0	8.0	13.5	12.0	15.0	12.0	21.5	19.0	20.5	18.5	20.0	16.5
19	10.5	9.5	13.5	11.5	16.0	13.0	22.5	19.0	21.0	17.0	20.5	18.0
20	10.5	8.5	11.5	10.5	17.0	13.0	23.5	20.0	22.0	17.5	21.0	18.0
21	10.5	9.0	12.0	10.5	17.5	14.0	23.5	20.0	22.0	18.5	20.0	18.0
22	10.0	9.0	13.5	11.5	17.5	14.5	23.5	19.5	22.0	19.0	19.5	17.0
23	10.0	8.5	14.5	12.5	16.0	14.0	24.5	20.5	21.5	19.5	20.0	17.0
24	10.0	8.5	14.0	12.5	14.0	12.0	24.5	21.0	22.0	18.5	19.5	17.0
25	9.5	8.0	13.0	11.5	14.0	11.0	25.0	21.0	22.0	18.0	19.5	17.0
26	9.0	8.0	14.5	12.5	16.0	13.0	25.5	21.0	22.0	18.5	19.5	17.0
27	10.5	8.0	14.5	12.5	16.5	13.5	25.5	22.0	21.0	18.5	20.0	17.5
28	10.5	9.0	14.5	12.5	17.0	13.5	25.5	22.0	19.5	17.0	19.5	17.0
29	11.5	9.5	15.0	13.0	17.0	13.5	23.0	19.5	19.0	16.5	19.0	16.5
30	12.0	10.0	15.0	13.0	17.0	14.0	21.0	16.5	19.5	17.0	19.0	16.5
31	---	---	14.5	13.0	---	---	21.5	16.5	19.5	15.5	---	---
MONTH	12.0	5.5	15.0	8.5	17.5	11.0	25.5	13.5	24.5	15.5	22.0	16.0



## 11521500 INDIAN CREEK NEAR HAPPY CAMP, CALIF.

LOCATION.--Lat 41°50'07", long 123°22'55", in SW¼SW¼ sec.26, T.17 N., R.7 E., Siskiyou County, on left bank 0.2 mi (0.3 km) upstream from Slater Creek, 3.0 mi (4.8 km) north of Happy Camp, and 3.5 mi (5.6 km) upstream from mouth.

DRAINAGE AREA.--120 mi<sup>2</sup> (311 km<sup>2</sup>).

PERIOD OF RECORD.--September 1911 to September 1921 (fragmentary), December 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Altitude of gage is 1,200 ft (366 m) from topographic map. Prior to December 1956, nonrecording gages at sites 1.0 mi (1.6 km) upstream at different datums. December 1956 to Sept. 20, 1969, water-stage recorder at site 0.8 mi (1.3 km) upstream at different datum.

AVERAGE DISCHARGE.--21 years (1911-14, 1957-75), 456 ft<sup>3</sup>/s (12.91 m<sup>3</sup>/s), 330,400 acre-ft/yr (407 hm<sup>3</sup>/yr).

EXTREMES.--Current year; Maximum discharge, 2,790 ft<sup>3</sup>/s (79.0 m<sup>3</sup>/s) Mar. 25 (gage height, 8.59 ft or 2.618 m); minimum daily, 44 ft<sup>3</sup>/s (1.25 m<sup>3</sup>/s) Oct. 13-24.

Period of record: Maximum discharge, 39,000 ft<sup>3</sup>/s (1,100 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 36.59 ft or 11.153 m, from floodmarks in gage well, site and datum then in use, 24.3 ft or 7.41 m, from floodmarks, present site and datum), from rating curve extended above 6,000 ft<sup>3</sup>/s (170 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 29.0 ft (8.84 m); minimum observed, 20 ft<sup>3</sup>/s (0.57 m<sup>3</sup>/s) Aug. 19 to Sept. 6, 1914. Flood of Dec. 21, 1955, reached a stage of 29.0 ft (8.84 m), at 1956-69 site and datum, from floodmarks (discharge, 23,000 ft<sup>3</sup>/s or 651 m<sup>3</sup>/s on basis of slope-area measurement of peak flow).

REMARKS.--Records good except those for periods of no gage-height record, which are fair. Small diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1635: 1957-58.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	51	64	190	230	1320	816	842	1540	212	95	64
2	46	50	111	170	250	1640	766	880	1090	212	91	63
3	46	50	296	170	235	1390	731	1140	980	211	88	61
4	46	50	326	334	220	1090	679	932	900	209	86	59
5	46	51	177	827	212	956	620	795	875	204	85	58
6	46	50	145	974	224	886	571	736	865	198	85	56
7	46	74	153	893	265	884	551	747	830	190	85	55
8	46	72	130	1270	368	1040	526	843	735	187	83	54
9	46	62	114	714	777	917	522	989	665	181	81	54
10	46	68	105	548	751	799	541	1150	625	175	79	53
11	46	60	316	429	627	705	576	1140	640	169	77	53
12	46	55	304	366	1600	635	653	1090	655	163	76	52
13	44	54	281	300	1960	583	757	1270	660	158	74	53
14	44	53	567	278	1160	530	776	1510	640	149	73	54
15	44	52	551	265	840	521	692	1380	605	149	72	54
16	44	51	349	255	680	503	625	1220	530	147	71	54
17	44	58	265	248	568	605	587	1200	495	142	74	52
18	44	114	207	238	508	1410	571	1210	430	138	79	51
19	44	82	183	235	1260	1510	618	1120	412	135	76	50
20	44	68	210	231	1280	1040	668	960	393	131	73	50
21	44	82	255	230	876	985	682	764	375	128	71	49
22	44	106	231	235	712	905	702	730	350	124	69	48
23	44	79	191	242	619	790	692	815	328	122	70	48
24	44	78	166	262	579	915	1160	880	309	115	71	47
25	45	107	152	300	597	2180	1110	820	287	111	67	46
26	46	91	147	368	606	1330	890	835	264	109	65	46
27	60	83	1070	325	716	1040	792	900	244	106	64	46
28	88	77	519	275	1330	879	745	985	226	104	73	45
29	61	71	335	250	---	802	728	1080	218	102	69	45
30	54	67	265	240	---	855	770	1270	214	100	67	45
31	53	---	215	222	---	889	---	1410	---	98	66	---
TOTAL	1487	2066	8400	11884	20050	30534	21117	31643	17380	4679	2355	1565
MEAN	48.0	68.9	271	383	716	985	704	1021	579	151	76.0	52.2
MAX	88	114	1070	1270	1960	2180	1160	1510	1540	212	95	64
MIN	44	50	64	170	212	503	522	730	214	98	64	45
AC-FT	2950	4100	16660	23570	39770	60560	41890	62760	34470	9280	4670	3100
CAL YR 1974	TOTAL	214471	MEAN 588	MAX 13300	MIN 44	AC-FT 425400						
WTR YR 1975	TOTAL	153160	MEAN 420	MAX 2180	MIN 44	AC-FT 303800						

Date	Time	Peak discharge (base, 2,000 ft <sup>3</sup> /s)	Date	Time	G.H.	Discharge
2-13	0230	8.40 2,560	3-19	2015	8.38	2,540
2-19	1630	8.01 2,120	3-25	0345	8.59	2,790

NOTE.--No gage-height record Jan. 13 to Feb. 7, May 17 to July 7.

## KLAMATH RIVER BASIN

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, on left bank at Somes Bar, 1.0 mi (1.6 km) upstream from mouth.

DRAINAGE AREA.--751 mi<sup>2</sup> (1,945 km<sup>2</sup>).

PERIOD OF RECORD.--September 1911 to September 1915, October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 482.97 ft (147.209 m) above mean sea level. Prior to October 1927, nonrecording gage at different datum, October 1927 to Dec. 22, 1964, water-stage recorder at site 0.5 mi (0.8 km) upstream at datum 6.54 ft (1.993 m) higher.

AVERAGE DISCHARGE.--52 years, 1,837 ft<sup>3</sup>/s (52.02 m<sup>3</sup>/s), 1,331,000 acre-ft/yr (1.64 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 20,400 ft<sup>3</sup>/s (578 m<sup>3</sup>/s) Mar. 18 (gage height, 14.51 ft or 4.423 m); minimum daily, 167 ft<sup>3</sup>/s (4.73 m<sup>3</sup>/s) Oct. 21, 22.  
Period of record: Maximum discharge, 133,000 ft<sup>3</sup>/s (3,770 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 46.6 ft or 14.20 m, present site and datum, from floodmarks), from rating curve extended above 33,000 ft<sup>3</sup>/s (935 m<sup>3</sup>/s); minimum, 70 ft<sup>3</sup>/s (1.98 m<sup>3</sup>/s) Aug. 25, Sept. 4, 5, 1931.

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

REVISIONS (WATER YEARS).--WSP 1285: 1912, 1914, 1915(M), 1946(M), 1948(M). WRD Calif. 1972: 1970-71(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	213	252	584	1030	5300	4700	3520	7340	1810	557	310
2	177	205	303	548	1030	5450	4450	3740	7070	1750	531	299
3	177	199	495	554	960	4860	3950	4330	6190	1770	509	285
4	177	198	847	1180	1040	4080	3700	4150	5760	1790	496	269
5	177	198	554	2110	1000	3450	3420	3700	6280	1860	483	256
6	177	198	452	4030	983	3080	3170	3410	5920	1740	468	244
7	177	264	436	3150	1190	2960	3000	3420	5430	1650	453	237
8	177	321	410	5090	1530	3290	2840	3750	4820	1680	440	229
9	177	253	380	3070	3260	3080	2700	4450	4510	1650	428	224
10	177	257	361	2290	3550	2820	2670	5010	4650	1620	415	220
11	177	248	548	1890	2900	2540	2670	5070	4680	1620	403	220
12	177	233	976	1630	7620	2290	2760	4980	4720	1610	392	220
13	177	223	1150	1460	11100	2150	3010	5530	4900	1520	386	226
14	177	219	1160	1360	6920	2000	3240	6860	4880	1400	374	249
15	177	212	1580	1290	4490	1950	3120	7200	4770	1340	363	237
16	174	210	1190	1250	3290	1940	2920	5970	4330	1320	346	234
17	173	227	914	1230	2570	2440	2760	5830	3700	1190	346	221
18	173	472	720	1290	2200	12700	2660	6260	3130	1100	428	213
19	170	381	628	1340	4630	13800	2690	6410	2900	1070	440	208
20	169	297	609	1400	6450	7200	2820	5240	2750	1050	392	208
21	167	300	774	1360	4480	5400	2940	4480	2770	1020	363	204
22	167	409	774	1330	3360	4600	3070	4220	2680	966	346	200
23	168	333	641	1330	2820	4300	3080	4520	2580	897	336	192
24	170	300	572	1340	2560	5200	3770	5020	2400	846	346	192
25	170	393	548	1530	2560	9400	4220	4760	2160	792	336	192
26	170	339	525	1600	2570	8000	3670	4710	2020	733	315	188
27	190	309	1250	1370	3070	6300	3370	5240	1970	699	304	188
28	240	289	1080	1210	5440	5400	3240	5480	1920	680	363	184
29	230	273	782	1100	---	4700	3100	5880	1890	657	363	180
30	222	261	713	1000	---	4500	3280	6820	1850	641	336	180
31	217	---	622	1020	---	4800	---	7420	---	598	315	---
TOTAL	5625	8234	22246	50936	94603	149980	96990	157380	120970	39069	12373	6709
MEAN	181	274	718	1643	3379	4838	3233	5077	4032	1260	399	224
MAX	240	472	1580	5090	11100	13800	4700	7420	7340	1860	557	310
MIN	167	198	252	548	960	1940	2660	3410	1850	598	304	180
AC-FT	11160	16330	44120	101000	187600	297500	192400	312200	239900	77490	24540	13310
CAL YR 1974	TOTAL	992776	MEAN	2720	MAX	54100	MIN	167	AC-FT	1969000		
WTR YR 1975	TOTAL	765115	MEAN	2096	MAX	13800	MIN	167	AC-FT	1518000		

Peak discharge (base, 10,000 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-12	1800	11.35	12,700	3-25	unknown	--	11,300
3-18	2215	14.51	20,400				

## 11522500 SALMON RIVER AT SOMES BAR, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: November 1958 to September 1964.

Water temperatures: October 1965 to current year.

Sediment records: Water years 1955-56 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 23.5°C Aug. 13.

Period of record:

Water temperatures: Maximum (1965-66, 1967-73, 1974 to current year), 32.0°C Sept. 4, 5, 1966;  
minimum (1965-74), freezing point on several days in 1967 and 1972.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	10.0	9.0	7.0	6.5	3.0	3.0	---	---	7.5	7.0
2	---	---	9.0	7.5	7.0	6.5	3.0	3.0	---	---	7.5	7.0
3	---	---	9.0	8.0	7.5	7.0	3.0	2.5	---	---	7.5	6.5
4	15.5	14.0	9.0	7.0	7.5	7.0	3.5	3.0	2.5	2.0	7.5	6.0
5	15.0	13.0	9.0	7.5	7.5	7.0	4.0	3.0	3.0	2.5	7.0	6.5
6	15.0	12.0	9.5	8.5	7.5	7.0	5.5	4.0	3.5	3.0	8.5	7.0
7	14.5	12.0	9.0	8.5	7.5	7.0	6.0	5.0	4.5	3.5	8.5	7.5
8	13.0	11.5	9.0	8.5	7.5	7.0	6.0	5.0	4.5	4.0	8.0	7.5
9	14.0	11.5	9.0	8.0	7.0	7.0	---	---	4.5	4.5	7.5	7.0
10	14.0	12.0	9.0	8.0	7.0	6.5	---	---	5.0	4.0	8.0	7.0
11	14.0	12.0	9.0	8.0	7.0	6.5	---	---	5.5	4.5	8.0	7.0
12	14.0	12.0	9.0	8.0	7.5	7.0	---	---	5.5	5.0	8.0	7.0
13	13.5	12.0	9.0	8.0	7.0	6.5	---	---	7.0	5.5	7.5	7.0
14	14.0	12.0	9.0	8.0	7.5	7.0	---	---	6.5	5.5	7.5	6.0
15	13.5	12.0	9.0	8.0	7.5	7.0	---	---	5.5	5.0	7.0	6.0
16	13.5	12.0	9.0	7.5	7.5	7.0	---	---	5.5	5.0	7.0	5.5
17	13.0	12.0	9.0	8.0	7.0	6.5	---	---	5.0	4.5	6.5	4.5
18	13.0	12.0	9.0	8.0	6.5	6.5	---	---	6.0	5.0	6.5	5.0
19	13.0	12.0	9.0	8.0	6.5	6.0	---	---	6.5	5.5	7.0	6.5
20	13.0	12.0	9.0	8.0	7.0	6.0	---	---	6.5	5.5	7.0	5.5
21	12.5	9.5	9.0	8.0	7.0	6.5	---	---	5.5	4.5	6.5	4.5
22	11.5	9.0	9.0	8.0	7.0	6.5	---	---	5.5	4.5	5.0	4.5
23	11.0	9.0	8.5	7.5	6.5	6.0	---	---	6.5	5.0	6.5	5.0
24	11.0	9.0	8.5	7.5	6.0	3.5	---	---	7.0	5.5	6.5	6.5
25	11.5	9.5	8.0	7.5	3.5	3.0	---	---	7.0	5.5	7.5	6.5
26	11.5	9.5	7.5	7.5	3.5	3.0	---	---	7.5	6.5	7.0	5.0
27	11.5	9.5	8.0	7.5	4.5	3.5	---	---	7.5	7.0	7.0	5.5
28	11.0	10.5	7.5	7.5	4.5	3.5	---	---	8.0	7.0	7.0	5.0
29	11.0	10.5	7.5	7.0	4.0	3.0	---	---	---	---	8.0	5.5
30	11.5	9.5	7.0	7.0	3.0	3.0	---	---	---	---	8.0	6.5
31	11.0	9.5	---	---	3.5	3.0	---	---	---	---	7.5	6.0
MONTH	15.5	9.0	10.0	7.0	7.5	3.0	---	---	8.0	2.0	8.5	4.5
DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	5.0	10.5	7.5	11.0	7.5	14.0	12.0	20.0	17.0	---	---
2	7.0	6.0	9.0	8.0	11.5	7.0	14.5	12.0	21.5	18.0	---	---
3	6.5	6.0	8.5	7.0	11.5	7.5	15.5	12.5	21.5	18.0	---	---
4	6.5	5.0	7.5	5.5	12.0	7.5	16.0	14.5	21.5	18.0	20.0	16.0
5	6.0	5.5	8.5	6.0	12.0	8.0	16.5	14.5	21.5	17.5	20.0	16.0
6	7.0	5.0	10.0	7.5	12.0	8.0	16.5	15.0	20.5	17.0	20.5	16.0
7	6.5	5.5	10.5	8.0	11.5	8.0	17.0	15.0	19.5	15.5	19.5	15.0
8	8.0	5.5	11.5	8.0	12.5	8.5	17.5	15.0	20.0	16.5	19.5	15.5
9	8.5	6.0	10.5	8.0	12.5	9.0	18.0	15.0	21.5	17.5	19.5	16.5
10	8.5	7.0	8.5	7.5	13.0	9.5	18.5	16.0	22.0	18.0	20.0	17.0
11	9.0	6.5	10.5	7.5	13.5	10.0	19.5	16.5	22.5	18.5	20.5	16.5
12	9.5	6.5	11.0	7.5	14.0	10.0	19.0	16.5	23.0	19.0	21.5	17.0
13	8.5	7.5	11.5	7.5	14.0	10.5	19.0	16.5	23.5	19.0	21.5	18.0
14	7.5	6.5	11.0	7.5	15.0	10.5	17.5	16.5	23.0	18.5	21.5	17.0
15	7.0	5.5	10.0	6.5	15.5	11.0	17.5	16.0	22.0	18.0	20.0	16.5
16	7.5	5.5	10.5	6.5	13.5	11.0	18.5	15.5	20.5	17.5	20.0	15.5
17	7.5	5.5	11.0	6.5	12.5	10.5	18.5	16.0	19.0	17.5	19.5	14.5
18	8.0	6.5	11.0	7.0	12.5	9.5	19.0	16.0	20.0	17.0	19.0	14.0
19	10.0	7.5	9.0	7.0	12.5	10.5	20.0	17.0	20.0	16.0	19.0	14.5
20	9.5	7.0	8.0	6.0	14.0	10.5	21.0	18.0	20.5	16.0	19.5	14.5
21	9.5	7.0	9.0	6.0	14.5	11.5	21.0	18.5	20.5	17.0	19.0	15.0
22	7.5	6.5	11.0	7.0	14.5	12.5	20.5	18.0	20.5	17.0	19.5	16.0
23	8.5	6.5	11.5	8.0	12.5	12.0	21.0	18.5	20.0	17.0	19.0	15.0
24	8.0	6.5	10.5	7.0	12.5	10.5	21.5	18.5	21.0	16.5	18.5	15.0
25	7.5	5.5	10.5	7.0	12.5	9.0	22.0	18.5	20.5	16.5	19.0	15.0
26	8.0	6.0	11.5	7.5	13.5	11.0	22.5	19.5	20.5	16.0	19.0	15.0
27	9.5	6.5	11.5	7.5	14.0	10.5	23.0	20.0	19.5	16.0	19.0	15.5
28	9.0	6.5	12.0	7.5	14.5	11.5	23.0	20.0	19.0	16.0	18.0	13.5
29	9.5	7.0	12.0	7.5	14.5	12.0	21.5	19.5	---	---	18.0	14.0
30	10.0	7.5	12.0	7.5	14.5	12.5	19.5	16.5	---	---	18.0	14.0
31	---	---	11.5	7.5	---	---	19.5	16.5	---	---	---	---
MONTH	10.0	5.0	12.0	5.5	15.5	7.0	23.0	12.0	23.5	15.5	21.5	13.5

## KLAMATH RIVER BASIN

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 on right bank at Orleans, 25 ft (8 m) upstream from highway bridge, and 0.2 mi (0.3 km) downstream from Cheenitch Creek.

DRAINAGE AREA.--8,475 mi<sup>2</sup> (21,950 km<sup>2</sup>), not including Lost River or Lower Klamath Lake basins.

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Prior to October 1965, published as "at Somesbar."

GAGE.--Water-stage recorder. Datum of gage is 355.98 ft (108.503 m) above mean sea level. Prior to Oct. 1, 1965, at site 6.7 mi (10.8 km) upstream at datum 90.68 ft (27.639 m) higher.

AVERAGE DISCHARGE.--48 years, 8,297 ft<sup>3</sup>/s (235.0 m<sup>3</sup>/s), 6,011,000 acre-ft/yr (7.41 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 74,800 ft<sup>3</sup>/s (2,120 m<sup>3</sup>/s) Mar. 18 (gage height, 20.04 ft or 6.108 m); minimum daily, 2,200 ft<sup>3</sup>/s (62.3 m<sup>3</sup>/s) Oct. 5.  
Period of record: Maximum discharge, 307,000 ft<sup>3</sup>/s (8,690 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 76.5 ft or 23.32 m, from floodmarks, site and datum then in use), from rating curve extended above 80,000 ft<sup>3</sup>/s (2,270 m<sup>3</sup>/s) by slope-conveyance study; minimum daily, 320 ft<sup>3</sup>/s (9.06 m<sup>3</sup>/s) Aug. 25, Sept. 1, 1951.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow considerably regulated by reservoirs and powerplants above station. Large diversions above station for irrigation.

REVISIONS (WATER YEARS).--WSP 1565: 1935(M), 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2220	2850	3970	5900	6680	19600	22400	16700	24000	5600	2400	2320
2	2240	2850	4300	5750	6670	21900	20700	17600	23700	5450	2450	2320
3	2220	2840	5570	5750	6570	21300	19600	19600	21000	5300	2470	2320
4	2210	2820	6770	7400	6950	18500	18500	19800	19700	5200	2450	2340
5	2200	2810	5860	10000	6770	16700	17100	18100	20400	5150	2420	2330
6	2210	2790	5340	16000	6600	15500	16200	16800	20000	5100	2380	2370
7	2210	3290	5270	13000	7220	14700	15600	16200	19000	4850	2370	2440
8	2270	3970	4990	19000	8500	15800	15200	16600	17200	4800	2370	2430
9	2420	3850	4800	14800	12900	16500	14400	18300	15800	4780	2370	2430
10	2470	3840	4760	12500	16000	15300	13500	20600	15600	4650	2350	2420
11	2570	3800	5680	10600	14500	14100	13400	21800	15300	4600	2320	2420
12	2580	3830	6670	9430	24000	12800	13800	21900	14900	4590	2310	2430
13	2570	3940	6700	8730	40000	11800	14900	23000	14800	4590	2290	2440
14	2570	3910	7600	8180	25600	10900	15900	26500	14500	4450	2280	2490
15	2570	3800	8900	7790	18800	10800	15800	28000	14000	4400	2270	2500
16	2570	3750	7430	7500	15700	10800	15000	25500	13000	4400	2240	2500
17	2570	3800	6700	7240	13400	11900	14000	24200	11200	4350	2250	2450
18	2580	4460	6060	7220	11800	37500	13400	24400	9600	4450	2340	2450
19	2570	4300	5750	7320	16800	59200	13500	24700	8700	4600	2360	2440
20	2570	4050	5750	7460	23200	34800	14000	22000	8300	4590	2300	2480
21	2570	4060	6060	7410	18200	28000	13900	19300	8000	4350	2340	2460
22	2580	4310	6370	7300	15200	25100	14400	17700	7700	3900	2340	2470
23	2580	4140	5900	7150	13500	22800	15300	17400	7350	3350	2370	2500
24	2590	4080	5610	7220	12300	23000	17700	18300	7000	2900	2380	2510
25	2580	4400	5610	7980	11900	46800	20600	16800	6600	2770	2300	2540
26	2580	4240	5700	8640	11900	39400	18600	16400	6250	2690	2280	2600
27	2680	4140	10000	7960	12700	30700	16800	17000	6050	2610	2310	2620
28	3090	4080	8500	7370	18700	26200	15700	18200	5900	2570	2480	2620
29	3080	4040	7240	6950	---	22800	15000	19500	5750	2540	2410	2620
30	4600	3990	6540	6630	---	22300	15400	21400	5600	2500	2390	2620
31	2860	---	6220	6550	---	23200	---	22800	---	2450	2330	---
TOTAL	80180	113030	192620	272730	403060	700700	480300	627100	386900	128530	72920	73880
MEAN	2586	3768	6214	8798	14400	22600	16010	20230	12900	4146	2352	2463
MAX	4600	4460	10000	19000	40000	59200	22400	28000	24000	5600	2480	2620
MIN	2200	2790	3970	5750	6570	10800	13400	16200	5600	2450	2240	2320
AC=FT	159000	224200	382100	541000	799500	1390000	952700	1244000	767400	254900	144600	146500
CAL YR 1974	TOTAL	4972380	MEAN	13620	MAX	240000	MIN	2020	AC=FT	9863000		
WTR YR 1975	TOTAL	3531950	MEAN	9677	MAX	59200	MIN	2200	AC=FT	7006000		

Peak discharge (base, 40,000 ft<sup>3</sup>/s)  
Date Time G.H. Discharge Date Time G.H. Discharge  
2-13 0845 16.73 47,600 3-25 1215 17.46 54,200  
3-18 2345 20.04 74,800

NOTE.--No gage-height record May 26 to July 24.

## 11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to current year.

Water temperatures: October 1965 to current year.

Sediment records: Water years 1955-59 (partial-record station), January 1967 to current year.

Prior to October 1966, published as "at Somesbar."

## EXTREMES.--Current year:

Water temperatures: Minimum, 1.5°C Feb. 1.

Sediment concentrations: Maximum daily, 1,290 mg/l Mar. 19; minimum daily, 6 mg/l on several days.

Sediment discharge: Maximum daily, 206,000 tons (187,000 tonnes) Mar. 19; minimum daily, 36 tons (33 tonnes) Oct. 1.

## Period of record:

Water temperatures: Maximum (1965-69, 1971-74), 29.5°C July 27, 1973; minimum (1965-66, 1967 to current year), freezing point Dec. 22, 23, 1968, Jan. 9-11, 1974.

Sediment concentrations (1967 to current year): Maximum daily, 4,690 mg/l Jan. 16, 1974; minimum daily, 1 mg/l Aug. 25-27, 1972.

Sediment discharge (1967 to current year): Maximum daily, 3,040,000 tons (2,760,000 tonnes) Jan. 16, 1974; minimum daily, 4.7 tons (4.3 tonnes) Aug. 27, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT.								
01...	1030	--	2440	230	8.0	17.0	1	10.4
NOV.								
12...	1240	--	3730	209	8.0	11.0	4	11.3
DEC.								
02...	1200	--	4190	210	8.2	7.0	5	11.6
JAN.								
06...	1320	--	17000	108	7.5	6.0	30	12.9
FEB.								
18...	1145	--	11800	172	8.3	6.0	10	13.3
MAR.								
10...	1120	--	15200	163	8.2	8.5	20	11.7
APR.								
14...	1115	--	16000	159	7.6	9.0	20	11.0
MAY								
12...	1110	--	22000	122	7.8	13.0	20	11.3
JUNE								
09...	1000	15800	--	107	8.4	15.0	10	10.0
JULY								
07...	1120	4850	--	133	7.9	20.0	1	9.0
AUG.								
11...	1105	--	2330	180	8.2	23.5	1	9.0
SEP.								
02...	1105	--	2320	193	8.2	19.0	2	9.7

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CAC03 (MG/L)
APR.									
14...	1115	--	16000	2600	40	6.4	87	0	71
JULY									
07...	1120	4850	--	--	--	5.0	71	0	58
AUG.									
11...	1105	--	2330	--	--	8.8	95	0	78

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	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)
APR.									
14...	1.5	.14	.20	.06	65	0	.3	159	7.6
JULY									
07...	2.8	--	--	--	56	0	.3	133	7.9
AUG.									
11...	5.4	--	--	--	71	0	.5	180	8.2

## KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
APR. 14...	9.0	20	11.0	3.5	0	0	0	0	0
JULY 07...	20.0	1	9.0	1.4	0	--	--	--	--
AUG. 11...	23.5	1	9.0	1.0	100	--	--	--	--

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		NOV		DEC		JAN		FER		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	--	--	12.0	-- 10.5	7.5	-- 7.0	3.5	-- 3.5	2.0	-- 1.5	7.5	-- 7.0
2	--	--	11.5	-- 10.0	8.0	-- 7.0	4.0	-- 3.5	2.0	-- 2.0	--	7.0
3	--	--	11.0	-- 10.0	8.0	-- 7.5	3.5	-- 3.0	3.0	-- 2.0	--	8.0
4	--	--	10.5	-- 10.0	8.0	-- 7.5	4.0	-- 3.5	3.0	-- 3.0	--	7.0
5	16.0	-- 14.0	10.0	-- 9.0	8.0	-- 8.0	5.0	-- 4.0	3.0	-- 2.0	--	--
6	15.5	-- 14.0	12.0	-- 11.0	8.0	-- 8.0	6.0	-- 5.0	3.5	-- 2.0	--	7.5
7	15.5	-- 14.0	12.0	-- 11.5	8.5	-- 8.0	6.5	-- 5.5	4.5	-- 3.5	--	7.5
8	15.0	-- 13.5	12.0	-- 11.0	8.0	-- 7.5	6.5	-- 5.5	5.0	-- 4.5	--	--
9	15.0	-- 13.5	11.0	-- 10.5	7.5	-- 7.5	5.5	-- 3.5	5.5	-- 5.0	--	--
10	16.0	-- 14.0	11.5	-- 11.0	8.0	-- 7.0	4.5	-- 3.5	6.0	-- 5.5	--	7.0
11	16.0	-- 14.5	11.5	-- 10.5	8.0	-- 7.5	5.0	-- 4.5	6.0	-- 6.0	--	7.5
12	15.5	-- 13.5	11.0	-- 10.5	8.0	-- 8.0	5.5	-- 5.0	6.5	-- 6.0	--	--
13	15.5	-- 13.5	11.0	-- 10.5	8.0	-- 8.0	5.5	-- 5.0	7.0	-- 6.0	--	7.0
14	15.5	-- 13.5	11.0	-- 10.5	8.0	-- 8.0	5.0	-- 4.5	7.0	-- 5.5	--	7.0
15	15.5	-- 14.0	11.0	-- 10.5	8.5	-- 8.0	4.5	-- 4.5	6.5	-- 5.0	--	--
16	15.0	-- 14.0	10.5	-- 10.0	9.0	-- 8.5	4.5	-- 4.5	6.0	-- 5.0	--	7.0
17	15.0	-- 13.5	10.0	-- 9.5	9.0	-- 8.5	5.0	-- 4.5	5.5	-- 5.0	--	6.5
18	15.0	-- 13.0	10.0	-- 9.5	8.5	-- 7.5	5.5	-- 4.5	6.0	-- 5.0	--	6.5
19	15.0	-- 13.5	10.0	-- 9.5	7.5	-- 7.0	5.0	-- 4.5	6.0	-- 6.0	--	6.5
20	14.5	-- 13.5	10.0	-- 9.5	7.5	-- 7.0	5.5	-- 4.5	6.5	-- 6.0	--	--
21	14.0	-- 12.0	10.0	-- 9.5	8.0	-- 7.5	5.5	-- 4.0	6.0	-- 5.0	--	6.5
22	13.5	-- 11.5	9.5	-- 9.5	8.0	-- 6.5	5.0	-- 4.0	6.0	-- 5.0	--	--
23	13.0	-- 11.5	9.5	-- 9.0	6.5	-- 5.5	4.5	-- 4.0	6.0	-- 5.0	--	7.0
24	13.0	-- 11.0	9.5	-- 8.5	6.0	-- 5.0	5.0	-- 5.0	7.0	-- 6.0	--	6.5
25	13.0	-- 11.5	9.5	-- 9.0	5.0	-- 4.0	5.5	-- 5.0	7.0	-- 6.0	--	7.0
26	13.0	-- 11.5	9.0	-- 8.5	4.5	-- 4.0	6.0	-- 5.5	7.0	-- 6.0	--	6.0
27	12.5	-- 12.0	8.5	-- 8.0	5.5	-- 4.5	5.5	-- 4.0	7.0	-- 6.5	--	6.0
28	12.5	-- 12.0	8.5	-- 8.0	5.5	-- 4.5	4.0	-- 3.0	7.0	-- 7.0	--	7.0
29	13.0	-- 12.0	8.0	-- 7.5	4.5	-- 4.0	3.0	-- 3.0	--	--	--	--
30	12.0	-- 11.5	7.5	-- 7.0	4.5	-- 3.5	3.0	-- 2.0	--	--	--	--
31	12.0	-- 11.5	--	--	4.0	-- 3.5	2.5	-- 2.0	--	--	--	--
MONTH	16.0	-- 11.0	12.0	-- 7.0	9.0	-- 3.5	6.5	-- 2.0	7.0	-- 1.5	--	--

## 11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2220	6	36	2850	6	46	3970	15	161
2	2240	7	42	2850	6	46	4300	17	197
3	2220	8	48	2840	6	46	5570	36	541
4	2210	9	54	2820	6	46	6770	52	951
5	2200	9	53	2810	6	46	5860	30	475
6	2210	8	48	2790	6	45	5340	20	288
7	2210	7	42	3290	18	160	5270	15	213
8	2270	11	67	3970	22	236	4990	10	135
9	2420	7	46	3850	11	114	4800	9	117
10	2470	10	67	3840	10	104	4760	11	141
11	2570	11	76	3800	10	103	5680	27	442
12	2580	11	77	3830	15	155	6670	35	630
13	2570	11	76	3940	24	255	6700	25	452
14	2570	11	76	3910	20	211	7600	35	829
15	2570	14	97	3800	17	174	8900	46	1110
16	2570	11	76	3750	15	152	7430	29	582
17	2570	11	76	3800	15	154	6700	20	362
18	2580	10	70	4460	30	361	6060	17	278
19	2570	9	62	4300	25	290	5750	16	248
20	2570	8	56	4050	22	241	5750	16	248
21	2570	8	56	4060	20	219	6060	19	311
22	2580	7	49	4310	23	268	6370	20	344
23	2580	6	42	4140	21	235	5900	17	271
24	2590	6	42	4080	18	198	5610	14	212
25	2580	6	42	4400	23	273	5610	12	182
26	2580	6	42	4240	21	240	5700	11	169
27	2680	6	43	4140	20	224	10000	267	8940
28	3090	18	150	4080	18	198	8500	133	3050
29	3080	10	83	4040	17	185	7240	37	723
30	4600	6	75	3990	16	172	6540	18	318
31	2860	6	46	---	---	---	6220	15	252
MONTH	80180	---	1915	113030	---	5197	192620	---	23172

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5900	13	207	6680	30	541	19600	100	5290
2	5750	12	186	6670	29	522	21900	150	8870
3	5750	12	186	6570	28	497	21300	135	7760
4	7400	31	619	6950	29	544	18500	103	5140
5	10000	159	6180	6770	25	457	16700	87	3920
6	16000	235	10200	6600	25	445	15500	73	3060
7	13000	94	3300	7220	27	526	14700	70	2780
8	19000	287	15900	8500	40	918	15800	100	4270
9	14800	100	4000	12900	85	2960	16500	110	4900
10	12500	68	2300	16000	219	9560	15300	80	3300
11	10600	50	1430	14500	80	3130	14100	55	2090
12	9430	44	1120	24000	369	30700	12800	46	1590
13	8730	40	943	40000	596	65200	11800	41	1310
14	8180	35	773	25600	270	18700	10900	37	1090
15	7790	31	652	18800	130	6600	10800	42	1220
16	7500	29	587	15700	100	4240	10800	56	1630
17	7240	28	547	13400	90	3260	11900	83	2840
18	7220	29	565	11800	80	2550	37500	1130	150000
19	7320	30	593	16800	240	10900	59200	1290	206000
20	7460	30	604	23200	235	14700	34800	660	62000
21	7410	30	600	18200	120	5900	28000	330	24900
22	7300	30	591	15200	78	3200	25100	260	17600
23	7150	30	579	13500	58	2110	22800	233	14300
24	7220	30	585	12300	46	1530	23000	225	14000
25	7980	38	819	11900	42	1350	46800	664	84700
26	8640	42	980	11900	40	1290	39400	360	38300
27	7960	32	688	12700	46	1580	30700	268	22200
28	7370	30	597	18700	120	6060	26200	200	14100
29	6950	29	544	---	---	---	22800	150	9230
30	6630	28	501	---	---	---	22300	150	9030
31	6550	29	513	---	---	---	23200	180	11300
MONTH	272730	---	57889	403060	---	199970	700700	---	738720
DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	22400	160	9680	16700	90	4060	24000	110	7130
2	20700	130	7270	17600	132	6270	23700	102	6530
3	19600	140	7410	19600	140	7410	21000	90	5100
4	18500	125	6240	19800	88	4700	19700	80	4260
5	17100	120	5540	18100	67	3270	20400	72	3970
6	16200	110	4810	16800	58	2630	20000	70	3780
7	15600	100	4210	16200	53	2320	19000	60	3080
8	15200	96	3940	16600	57	2550	17200	50	2320
9	14400	86	3340	18300	70	3460	15800	45	1920
10	13500	77	2810	20600	90	5010	15600	40	1680
11	13400	70	2530	21800	115	6770	15300	38	1570
12	13800	67	2500	21900	105	6210	14900	36	1450
13	14900	77	3100	23000	115	7140	14800	36	1440
14	15900	82	3520	26500	170	12200	14500	34	1330
15	15800	80	3410	28000	229	17300	14000	32	1210
16	15000	79	3200	25500	182	12500	13000	30	1050
17	14000	78	2950	24200	146	9540	11200	26	786
18	13400	76	2750	24400	115	7580	9600	22	570
19	13500	73	2660	24700	93	6200	8700	21	493
20	14000	77	2910	22000	78	4630	8300	20	448
21	13900	72	2700	19300	67	3490	8000	18	389
22	14400	71	2760	17700	60	2870	7700	15	312
23	15300	74	3060	17400	70	3290	7350	12	238
24	17700	120	6060	18300	160	7910	7000	10	189
25	20600	124	6900	16800	140	6350	6600	7	125
26	18600	85	4270	16400	133	5890	6250	7	118
27	16800	76	3450	17000	110	5050	6050	7	114
28	15700	66	2800	18200	100	4910	5900	7	112
29	15000	55	2230	19500	85	4480	5750	7	109
30	15400	58	2410	21400	90	5200	5600	7	106
31	---	---	---	22800	100	6160	---	---	---
MONTH	480300	---	121420	627100	---	187350	386900	---	51929



11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	5600	7	106	2400	23	149	2320	9	56
2	5450	7	103	2450	16	106	2320	9	56
3	5300	7	100	2470	12	80	2320	9	56
4	5200	7	98	2450	10	66	2340	9	57
5	5150	7	97	2420	9	59	2330	9	57
6	5100	7	96	2380	8	51	2370	9	58
7	4850	7	92	2370	22	141	2440	8	53
8	4800	7	91	2370	16	102	2430	8	52
9	4780	7	90	2370	12	77	2430	8	52
10	4650	7	88	2350	10	63	2420	8	52
11	4600	9	112	2320	8	50	2420	8	52
12	4590	9	112	2310	8	50	2430	8	52
13	4590	8	99	2290	8	49	2440	8	53
14	4450	8	96	2280	7	43	2490	8	54
15	4400	8	95	2270	7	43	2500	8	54
16	4400	8	95	2240	7	42	2500	8	54
17	4350	8	94	2250	7	43	2450	8	53
18	4450	8	96	2340	10	63	2450	8	53
19	4600	10	124	2360	9	57	2440	9	59
20	4590	10	124	2300	9	56	2480	9	60
21	4350	10	117	2340	7	44	2460	9	60
22	3900	9	95	2340	7	44	2470	9	60
23	3350	8	72	2370	7	45	2500	9	61
24	2900	7	55	2380	7	45	2510	9	61
25	2770	7	52	2300	7	43	2540	9	62
26	2690	7	51	2280	7	43	2600	10	70
27	2610	7	49	2310	7	44	2620	10	71
28	2570	7	49	2480	12	80	2620	9	64
29	2540	7	48	2410	10	65	2620	9	64
30	2500	7	47	2390	9	58	2620	9	64
31	2450	7	46	2330	9	57	---	---	---
MONTH	128530	---	2689	72920	---	1958	73880	---	1730
YEAR	3531950		1393939						

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT 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...	1655	5.5E	15000	421	--	--	--	--
JAN.								
05...	1725	5.0E	11800	237	7550	--	--	--
06...	0835	6.0E	19300	254	13200	--	--	--
08...	0840	6.5	22100	325	19400	--	--	--
09...	1515	--	14500	92	3600	--	--	--
FEB.								
11...	1500	--	14200	77	2950	--	--	--
13...	1815	6.0	43100	611	71100	--	--	--
14...	0835	5.5	26500	289	20700	--	--	--
20...	1110	6.0	23500	220	14000	--	--	--
MAR.								
04...	1335	--	18300	101	4990	--	--	--
18...	1850	6.5	59700	2130	343000	8	13	19
19...	1955	6.5	48000	1040	135000	17	22	30
24...	1645	6.5	22600	226	13800	--	--	--
25...	1730	--	51000	559	77000	--	--	--
26...	1000	6.0	39900	373	40200	--	--	--
MAY								
02...	1150	10.5	17800	136	6540	--	--	--

E Estimated.

## KLAMATH RIVER BASIN

11523000 KLAMATH RIVER AT ORLEANS, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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.								
27...	--	--	56	75	96	100	--	--
JAN.								
05...	--	--	57	72	94	100	--	--
06...	--	--	50	64	86	100	--	--
08...	--	--	47	62	88	99	100	--
09...	--	--	56	64	78	96	100	--
FEB.								
11...	--	--	54	60	73	94	100	--
13...	--	--	53	70	91	100	--	--
14...	--	--	59	73	91	99	100	--
20...	--	--	59	71	89	99	100	--
MAR.								
04...	--	--	61	67	76	90	98	100
18...	26	35	45	61	84	98	100	--
19...	39	48	58	74	91	99	100	--
24...	--	--	68	78	91	98	100	--
25...	--	--	64	79	94	100	--	--
26...	--	--	77	89	98	100	--	--
MAY								
02...	--	--	44	52	66	84	98	100

## 11523200 TRINITY RIVER ABOVE COFFEE CREEK, NEAR TRINITY CENTER, CALIF.

LOCATION.--Lat 41°06'29", long 122°42'23", in NE¼SE¼ sec.31, T.38 N., R.7 W., Trinity County, Shasta National Forest, on right bank 250 ft (76 m) downstream from Chinquapin Gulch, 1.8 mi (2.9 km) upstream from Coffee Creek, and 8.5 mi (13.7 km) north of Trinity Center.

DRAINAGE AREA.--149 mi<sup>2</sup> (386 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 2,533.36 ft (772.168 m) above mean sea level.

AVERAGE DISCHARGE.--18 years, 444 ft<sup>3</sup>/s (12.57 m<sup>3</sup>/s), 321,700 acre-ft/yr (397 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 3,770 ft<sup>3</sup>/s (107 m<sup>3</sup>/s) May 14 (gage height, 6.17 ft or 1.881 m); minimum daily, 41 ft<sup>3</sup>/s (1.16 m<sup>3</sup>/s) Sept. 28-30.

Period of record: Maximum discharge, 26,500 ft<sup>3</sup>/s (750 m<sup>3</sup>/s) Jan. 16, 1974 (gage height, 12.96 ft or 3.950 m in gage well, 13.6 ft or 4.15 m, from floodmarks), from rating curve extended above 4,500 ft<sup>3</sup>/s (127 m<sup>3</sup>/s) on basis of slope-area measurements at gage heights 9.91 ft (3.021 m) and 12.96 ft (3.950 m); minimum daily, 27 ft<sup>3</sup>/s (0.77 m<sup>3</sup>/s) Nov. 3, 1966.

Flood of Dec. 22, 1955, reached a stage of 10.5 ft (3.20 m), from floodmarks (discharge, 11,400 ft<sup>3</sup>/s or 323 m<sup>3</sup>/s).

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

## DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	57	60	67	89	903	578	953	2,850	316	76	53
2	42	52	108	62	115	1,310	560	1,140	2,480	299	76	52
3	42	50	260	62	128	967	529	1,450	2,240	285	73	51
4	42	51	364	67	121	751	484	1,170	2,210	276	72	50
5	42	50	161	66	115	648	449	906	2,320	267	68	48
6	42	50	127	76	127	615	412	836	2,090	248	67	47
7	42	84	117	82	149	1,680	395	946	1,830	236	67	46
8	42	84	108	112	256	2,340	379	1,210	1,530	227	67	46
9	43	62	99	92	897	1,340	376	1,650	1,420	209	66	45
10	43	63	91	85	584	952	418	1,740	1,360	203	64	45
11	43	59	89	82	452	792	448	1,600	1,370	193	62	45
12	43	56	116	82	570	642	534	1,690	1,380	185	61	45
13	43	55	126	82	509	589	619	2,140	1,360	177	60	45
14	42	53	113	85	393	556	682	2,880	1,310	163	59	49
15	42	53	119	95	324	531	596	2,710	1,220	170	57	45
16	42	52	142	102	284	493	547	2,290	1,040	195	57	45
17	42	53	122	117	248	460	505	2,280	847	157	59	44
18	42	70	107	146	229	503	506	2,470	699	145	75	43
19	42	60	98	168	231	610	588	2,340	638	134	69	43
20	42	56	98	191	210	576	697	1,760	620	124	64	43
21	42	191	107	192	194	550	744	1,370	604	113	59	43
22	43	154	99	190	188	479	815	1,380	596	106	60	42
23	43	92	86	191	195	415	782	1,690	579	102	57	42
24	43	79	79	222	235	413	1,220	1,890	553	97	56	42
25	43	84	82	254	303	572	1,120	1,700	497	96	55	42
26	43	74	76	237	339	531	804	1,750	463	92	53	42
27	48	69	81	199	375	469	675	2,070	433	89	54	42
28	97	67	79	170	583	418	669	2,200	393	86	60	41
29	74	62	65	155	-----	420	704	2,460	344	84	57	41
30	58	62	74	131	-----	546	819	2,820	331	82	55	41
31	59	-----	62	110	-----	619	-----	2,960	-----	79	54	-----
TOTAL	1,438	2,104	3,515	3,972	8,443	22,690	18,654	56,451	35,607	5,235	1,939	1,348
MEAN	46.4	70.1	113	128	302	732	622	1,821	1,187	169	62.5	44.9
MAX	97	191	364	254	897	2,340	1,220	2,960	2,850	316	76	53
MIN	42	50	60	62	89	413	376	836	331	79	53	41
AC-FT	2,850	4,170	6,970	7,880	16,750	45,010	37,000	112,000	70,630	10,380	3,850	2,670
CAL YR 1974	TOTAL 240,783	MEAN 660	MAX 18,900	MIN 42	AC-FT 477,600							
WTR YR 1975	TOTAL 161,396	MEAN 442	MAX 2,960	MIN 41	AC-FT 320,100							

Peak discharge (base, 1,900 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
3-8	0030	5.68	3,000	5-31	2000	6.13	3,710
5-14	2030	6.17	3,770				

## KLAMATH RIVER BASIN

11525400 CLAIR ENGLE LAKE NEAR LEWISTON, CALIF.

LOCATION.--Lat 40°48'05", long 122°45'44", in NW¼SW¼ sec.15, T.34 N., R.8 W., Trinity County, Trinity National Forest, on side of intake structure of Trinity Dam on Trinity River, 9 mi (14 km) north of Lewiston.

DRAINAGE AREA.--692 mi<sup>2</sup> (1,792 km<sup>2</sup>).

PERIOD OF RECORD.--November 1960 to current year. Prior to October 1963 published as Trinity Lake near Lewiston.

GAGE.--Water-stage recorder. Datum of gage is at mean sea level (levels by Bureau of Reclamation). Prior to Jan. 4, 1962, nonrecording gage at same site and datum.

EXTREMES.--Current year: Maximum contents, 2,444,000 acre-ft (3,013 hm<sup>3</sup>) June 15 (elevation, 2,369.78 ft or 722.309 m); minimum, 1,824,000 acre-ft (2,249 hm<sup>3</sup>) Nov. 30, Dec. 1 (elevation, 2,328.42 ft or 709.702 m).  
Period of record: Maximum contents, 2,588,000 acre-ft (3,191 hm<sup>3</sup>) Jan. 19, 1974 (elevation, 2,378.32 ft or 724.912 m); minimum since lake first filled, 1,305,600 acre-ft (1,610 hm<sup>3</sup>) Dec. 9, 1968 (elevation, 2,286.22 ft or 696.840 m).

REMARKS.--The lake is formed by an earthfill dam completed in November 1960. Storage began Nov. 23, 1960. Usable capacity, 2,437,700 acre-ft (3,006 hm<sup>3</sup>) between elevations 1,995.5 ft (608.23 m), elevation of invert of river outlets and 2,370.0 ft (722.38 m), gross pool elevation, above mean sea level. Dead storage, 10,000 acre-ft (12.3 hm<sup>3</sup>). Records, including extremes, represent total contents at 2400 hours.

COOPERATION.--Records furnished by Bureau of Reclamation, rounded to Geological Survey standards.

## CAPACITY TABLE (ELEVATION, IN FEET, AND CONTENTS, IN ACRE-FEET)

1,960	670	2,100	162,231
1,970	1,894	2,140	292,850
1,980	4,131	2,190	529,611
2,000	12,373	2,250	955,140
2,020	26,436	2,310	1,583,590
2,040	47,023	2,380	2,616,990
2,070	92,906		

CONTENTS, IN ACRE-FEET, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
INSTANTANEOUS OBSERVATIONS AT 2400

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1992000	1839000	1824000	1831000	1848000	1941000	2164000	2157000	2394000	2396000	2308000	2165000
2	1988000	1839000	1826000	1830000	1848000	1951000	2164000	2163000	2402000	2392000	2303000	2160000
3	1984000	1838000	1829000	1831000	1848000	1959000	2163000	2169000	2409000	2389000	2301000	2155000
4	1980000	1837000	1832000	1831000	1849000	1964000	2162000	2174000	2414000	2387000	2299000	2150000
5	1976000	1836000	1832000	1832000	1850000	1969000	2160000	2178000	2421000	2385000	2297000	2145000
6	1973000	1835000	1832000	1832000	1852000	1974000	2158000	2181000	2426000	2382000	2293000	2139000
7	1969000	1835000	1833000	1834000	1854000	1995000	2156000	2185000	2430000	2379000	2291000	2133000
8	1967000	1835000	1832000	1836000	1858000	2021000	2154000	2190000	2431000	2376000	2289000	2128000
9	1963000	1834000	1832000	1836000	1868000	2035000	2151000	2197000	2431000	2374000	2288000	2122000
10	1959000	1834000	1832000	1837000	1873000	2045000	2148000	2203000	2432000	2370000	2287000	2117000
11	1957000	1833000	1832000	1837000	1877000	2052000	2146000	2210000	2432000	2367000	2282000	2111000
12	1953000	1832000	1832000	1837000	1890000	2058000	2145000	2217000	2434000	2364000	2276000	2105000
13	1949000	1831000	1833000	1837000	1899000	2062000	2144000	2227000	2438000	2361000	2271000	2100000
14	1946000	1830000	1833000	1836000	1905000	2064000	2144000	2238000	2442000	2356000	2264000	2095000
15	1942000	1830000	1834000	1836000	1909000	2067000	2143000	2248000	2444000	2353000	2258000	2091000
16	1938000	1829000	1834000	1836000	1912000	2069000	2141000	2256000	2442000	2349000	2252000	2088000
17	1935000	1829000	1833000	1836000	1914000	2075000	2140000	2267000	2439000	2345000	2247000	2084000
18	1931000	1828000	1833000	1836000	1915000	2084000	2138000	2278000	2435000	2341000	2241000	2081000
19	1923000	1828000	1833000	1837000	1919000	2093000	2136000	2287000	2432000	2338000	2236000	2077000
20	1916000	1827000	1833000	1838000	1920000	2100000	2135000	2295000	2430000	2334000	2231000	2074000
21	1908000	1828000	1833000	1838000	1921000	2109000	2135000	2300000	2428000	2333000	2226000	2071000
22	1901000	1828000	1832000	1839000	1922000	2115000	2135000	2307000	2426000	2332000	2221000	2067000
23	1894000	1828000	1832000	1840000	1923000	2120000	2136000	2315000	2422000	2330000	2215000	2065000
24	1886000	1827000	1832000	1841000	1924000	2128000	2141000	2323000	2418000	2329000	2210000	2062000
25	1880000	1827000	1832000	1842000	1926000	2138000	2143000	2328000	2415000	2327000	2205000	2058000
26	1873000	1826000	1832000	1843000	1927000	2145000	2144000	2334000	2411000	2322000	2200000	2055000
27	1867000	1826000	1833000	1844000	1930000	2151000	2144000	2341000	2408000	2320000	2193000	2051000
28	1860000	1825000	1832000	1844000	1935000	2154000	2144000	2349000	2405000	2318000	2187000	2048000
29	1853000	1825000	1832000	1845000	---	2157000	2148000	2359000	2402000	2314000	2181000	2044000
30	1847000	1824000	1832000	1845000	---	2161000	2152000	2370000	2399000	2312000	2176000	2041000
31	1840000	---	1831000	1846000	---	2164000	---	2382000	---	2310000	2170000	---
MAX	1992000	1839000	1834000	1846000	1935000	2164000	2164000	2382000	2444000	2396000	2308000	2165000
MIN	1840000	1824000	1824000	1830000	1848000	1941000	2135000	2157000	2394000	2310000	2170000	2041000
(a)	2,329.60	2,328.45	2,328.96	2,330.06	2,336.38	2,351.96	2,351.19	2,366.00	2,367.02	2,361.45	2,352.40	2,343.73
(b)	-156,000	-16,000	+7,000	+15,000	+89,000	+229,000	-12,000	+230,000	+17,000	-89,000	-140,000	-129,000
(c)	3,210	860	330	190	210	1,490	3,160	6,940	8,850	9,410	8,060	6,090

CAL YR 1974 b -506,000  
WTR YR 1975 b +45,000

- a Elevation, in feet, at end of month.  
b Change in contents, in acre-feet,  
c Evaporation, in acre-feet.

## 11525430 JUDGE FRANCIS CARR POWERPLANT NEAR FRENCH GULCH, CALIF.

LOCATION.--Lat 40°38'49", long 122°37'34" (unsurveyed), Shasta County, at powerplant 1.6 mi (2.6 km) downstream from Mill Creek, and 3.8 mi (6.1 km) south of French Gulch.

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Recorded powerplant output.

AVERAGE DISCHARGE.--12 years, 1,744 ft<sup>3</sup>/s (49.39 m<sup>3</sup>/s), 1,264,000 acre-ft/yr (1,560 hm<sup>3</sup>/yr).

EXTREMES.--Period of record: Maximum daily discharge, 3,910 ft<sup>3</sup>/s (111 m<sup>3</sup>/s) Feb. 11, 1970; no flow for several days in many years.

REMARKS.--Water is diverted from Trinity River at NW¼SE¼ sec.8, T.33 N., R.8 W., through a tunnel to powerplant and then into Whiskeytown Lake (see sta 11371700). See schematic diagram of Pit and McCloud River basins.

COOPERATION.--Records furnished by Bureau of Reclamation, rounded to Geological Survey standards.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1670	298	257	253	314	408	2840	949	2410	2630	1140	2620
2	1670	257	260	262	315	401	2850	939	2460	2630	2770	2620
3	1660	217	442	283	316	398	2960	940	2890	2630	1030	2630
4	1660	270	300	261	319	398	2960	941	3350	2630	1180	2690
5	1720	267	298	253	321	487	2990	1070	3350	2630	781	2650
6	1720	257	330	253	320	405	2960	1100	3350	2630	1160	2620
7	1430	252	304	276	316	313	2960	1040	3450	2630	1310	2620
8	1210	295	360	328	305	270	2960	1080	3450	2650	963	2610
9	1740	276	295	320	148	210	2960	1080	3440	2620	974	2610
10	1270	263	307	316	148	0	2960	1010	3430	2620	976	2610
11	1150	380	334	324	142	0	2960	779	3440	2620	2730	2610
12	1520	298	255	318	140	0	2970	806	3260	2620	2240	2610
13	1580	259	332	454	146	4.0	2970	703	2850	2620	2930	2610
14	1700	318	340	456	139	413	2910	2170	2310	2620	2950	2610
15	1520	360	320	482	0	505	2910	1950	2900	2620	2880	1610
16	1750	330	258	319	0	744	2910	1790	3330	2620	2630	1560
17	1580	301	461	305	0	552	2910	824	3330	2620	2630	1540
18	1560	363	585	299	447	24	2970	833	3250	2620	2630	1520
19	3320	382	398	320	361	246	2970	830	2710	2620	2630	1500
20	3320	409	450	320	345	158	2970	0	2490	2620	2630	1500
21	3330	317	365	344	321	124	2970	0	2610	1120	2630	1500
22	3070	289	386	422	367	0	2880	0	3140	1200	2650	1490
23	3080	262	325	316	447	0	2940	0	2490	1290	2630	1160
24	3140	256	315	316	430	0	2910	1110	2640	836	2630	1500
25	3140	256	322	320	424	256	2910	1660	2760	1770	2630	1500
26	3140	261	314	316	391	258	2860	1650	2570	2620	2630	1500
27	3140	282	316	315	361	71	2970	1980	2630	1140	2620	1500
28	3140	262	495	316	358	800	2970	1880	2630	1170	2620	1500
29	3250	246	319	319	---	1010	1010	1960	2630	1160	2620	1500
30	3210	246	320	318	---	1070	752	2340	2630	1140	2620	1500
31	3200	---	263	320	---	2070	---	2320	---	1150	2620	---
TOTAL	69590	8729	10626	10024	7641	11595.0	84022	35734	88180	67096	68064	60600
MEAN	2245	291	343	323	273	374	2801	1153	2939	2164	2196	2020
MAX	3330	409	585	482	447	2070	2990	2340	3450	2650	2950	2690
MIN	1150	217	255	253	0	0	752	0	2310	836	781	1160
AC-FT	138000	17310	21080	19880	15160	23000	166700	70880	174900	133100	135000	120200
CAL YR 1974 TOTAL	881308.00			MEAN 2415	MAX 3630	MIN 0	AC-FT 1748000					
WTR YR 1975 TOTAL	521901.00			MEAN 1430	MAX 3450	MIN 0	AC-FT 1035000					

## KLAMATH RIVER BASIN

## 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, on right bank 400 ft (122 m) upstream from Deadwood Creek, and 0.8 mi (1.3 km) northeast of Lewiston.

DRAINAGE AREA.--719 mi<sup>2</sup> (1,862 km<sup>2</sup>).

PERIOD OF RECORD.--August 1911 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,810 ft (552 m), from topographic map. Prior to Oct. 16, 1930, nonrecording gage and Oct. 16, 1930, to Sept. 30, 1958, water-stage recorder, at site 1.1 mi (1.8 km) downstream at different datum. Oct. 1, 1958, to July 6, 1964, water-stage recorder at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE (adjusted for change in contents, evaporation, and diversion).--64 years, 1,730 ft<sup>3</sup>/s (48.99 m<sup>3</sup>/s), 1,253,000 acre-ft/yr (1.54 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,260 ft<sup>3</sup>/s (64.0 m<sup>3</sup>/s) May 20 (gage height, 5.94 ft or 1.811 m); minimum daily, 160 ft<sup>3</sup>/s (4.53 m<sup>3</sup>/s) on several days in April.

Period of record: Maximum discharge, 71,600 ft<sup>3</sup>/s (2,030 m<sup>3</sup>/s) Dec. 22, 1955 (gage height, 27.3 ft or 8.32 m, from floodmarks, site and datum then in use); minimum, 23 ft<sup>3</sup>/s (0.65 m<sup>3</sup>/s) July 30, 1924. Maximum discharge since construction of Lewiston Dam in 1960, 14,400 ft<sup>3</sup>/s (408 m<sup>3</sup>/s) Jan. 18, 1974 (gage height, 10.41 ft or 3.173 m); minimum daily, 125 ft<sup>3</sup>/s (3.54 m<sup>3</sup>/s) July 8, 1969.

Flood of December 1861 reached a stage of 21.6 ft (6.58 m), from floodmarks, at site 1.1 mi (1.8 km) downstream at different datum (discharge, not determined).

REMARKS.--Records good. Flow regulated by Clair Engle Lake (see sta 11525400) beginning in November 1960. Diversion to Judge Francis Carr powerplant (see sta 11525430) began in April 1963. Small diversions above head of Trinity Lake for irrigation, power, and placer mining.

REVISIONS (WATER YEARS).--WSP 331: 1911-12. WSP 1181: 1949. WSP 1929: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	209	260	213	166	173	173	163	244	1580	373	167	168
2	212	262	189	166	171	172	163	337	1550	315	168	191
3	212	262	170	166	171	171	161	436	1540	270	170	213
4	212	262	169	167	170	171	160	528	1530	223	171	213
5	212	262	169	170	170	170	162	609	1530	195	171	213
6	211	263	168	170	170	170	161	723	1530	179	172	212
7	211	264	168	172	171	181	160	795	1540	168	169	214
8	210	263	169	173	172	177	160	920	1540	168	169	217
9	209	263	169	171	172	173	161	1040	1540	166	168	217
10	209	263	169	171	170	172	161	1140	1500	166	167	217
11	211	263	170	170	170	172	160	1250	1450	166	163	216
12	212	262	169	170	180	172	160	1380	1410	166	168	216
13	214	262	168	170	175	410	160	1470	1340	166	170	217
14	216	264	169	176	170	789	160	1580	1300	167	169	216
15	240	237	168	167	168	687	160	1670	1220	167	170	217
16	259	215	168	168	168	591	161	1780	1180	166	170	217
17	258	215	170	167	169	521	164	1870	1130	166	170	216
18	258	215	170	169	171	439	163	1990	1070	166	168	216
19	258	215	168	170	174	349	163	2090	1010	166	167	215
20	258	213	169	170	172	296	162	2210	961	166	167	215
21	259	213	169	170	172	213	162	2180	897	165	169	216
22	259	212	168	170	172	168	163	2130	833	165	169	217
23	257	212	166	170	172	166	164	2080	787	166	168	216
24	259	212	168	169	172	171	164	1990	746	165	168	212
25	261	212	166	169	172	170	163	1940	678	165	167	206
26	262	213	167	169	172	167	163	1880	634	164	166	206
27	263	213	169	169	173	165	163	1830	572	167	168	206
28	264	213	168	170	173	163	162	1770	511	167	168	206
29	262	214	165	170	---	164	162	1730	467	166	168	206
30	262	214	165	166	---	164	162	1670	415	166	170	207
31	262	---	165	170	---	163	---	1630	---	166	168	---
TOTAL	7361	7113	5278	5251	4805	8030	4853	44892	33991	5707	5223	6334
MEAN	237	237	170	169	172	259	162	1448	1133	184	168	211
MAX	264	264	213	176	180	789	164	2210	1580	373	172	217
MIN	209	212	165	166	168	163	160	244	415	164	163	168
AC-FT	14600	14110	10470	10420	9530	15930	9630	89040	67420	11320	10360	12560
MEAN a	6.02	279	631	741	2,036	4,380	2,816	6,462	4,497	1,052	224	155
AC-FT a	370	16,580	38,780	45,590	113,060	269,310	167,540	397,320	267,610	64,710	13,750	9,230
CAL YR 1974	TOTAL	356508	MEAN 977	MAX 13800	MIN 144	AC-FT 707100	MEAN a 2,765	AC-FT a 2,002,000				
WTR YR 1975	TOTAL	138838	MEAN 380	MAX 2210	MIN 160	AC-FT 275400	MEAN a 1,939	AC-FT a 1,404,000				

a Adjusted for change in contents, evaporation, and diversion from Clair Engle Lake. Data furnished by Bureau of Reclamation.

## 11525500 TRINITY RIVER AT LEWISTON, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), December 1953 to September 1968, water years 1969 to current year (partial-record station).

Water temperatures: September 1951 to September 1955, October 1957 to September 1958, July 1959 to current year.

Sediment records: Water years 1955-61 (partial-record station).

## EXTREMES.--Current year:

Water temperatures: Maximum, 14.0°C July 30, 31; minimum, 4.0°C on several days during December and January.

Period of record (See REMARKS below):

Water temperatures (1951-60): Maximum (1951-55, 1957-58, 1959-60), 26.0°C July 20, 21, 28, 29, 1960; minimum, 1.0°C on several days in 1952.

Water temperatures (1961 to current year): Maximum (1961-63, 1964 to current year), 19.5°C Oct. 1, 2, 1960, June 13, 15-17, 1961; minimum, 3.0°C June 22, 23, 1962.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Water temperatures affected by construction of Trinity Dam beginning in November 1960. Extremes are given above for two separate periods--1951-60, and 1961 to current year. Clock stopped Feb. 25 to Mar. 2, Mar. 22-25; range in temperature, 7.5°C to 9.0°C, and 6.5°C to 8.0°C, respectively.

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
NOV. 12...	0830	262	--	2.5	55	0	45	1.0	.05	--
MAY 12...	0730	1370	360	1.6	45	0	37	.8	.00	.10

DATE	TOTAL PHOS- PHURUS (P) (MG/L)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	SODIUM AD- SORP- TION RATIO	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV. 12...	--	37	0	.2	0	--	--	--	--	--
MAY 12...	.01	36	0	.1	0	0	0	0	10	0

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
NOV. 12...	0830	262	78	7.4	8.0	3	11.4
MAR. 10...	0735	17	87	7.2	7.0	3	10.9
MAY 12...	0730	1370	78	7.5	9.0	1	11.2
JULY 07...	0800	167	81	7.6	11.5	2	10.3
SEP. 02...	0735	165	79	8.3	9.0	1	10.4

## KLAMATH RIVER BASIN

11525500 TRINITY RIVER AT LEWISTON, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.5	8.0	7.0	6.5	7.5	7.0	4.5	4.0	6.5	6.0	---	---
2	9.5	8.0	7.5	6.5	7.5	7.5	4.5	4.0	6.5	6.0	---	---
3	9.5	8.0	7.5	6.5	7.5	7.5	4.5	4.0	6.5	6.0	7.5	6.5
4	9.5	8.5	7.5	7.0	7.5	7.0	4.5	4.0	6.5	6.0	7.5	6.5
5	9.5	8.5	7.5	6.5	7.5	7.0	4.5	4.5	6.5	6.0	7.5	6.5
6	9.0	8.5	7.5	7.0	7.5	7.5	5.0	4.0	6.0	6.0	8.0	7.0
7	9.0	8.0	7.0	7.0	7.5	7.0	5.0	4.5	6.5	6.0	8.5	8.0
8	9.0	8.5	7.5	7.0	7.5	7.0	4.5	4.5	6.5	6.0	8.5	7.5
9	9.0	8.0	7.5	7.0	7.5	7.0	5.5	4.5	6.5	6.5	8.5	7.5
10	8.5	7.5	7.5	6.5	7.5	7.0	5.0	4.5	7.0	6.0	8.5	7.5
11	8.5	7.5	7.5	7.0	7.0	6.5	5.0	4.5	6.5	6.0	8.5	7.5
12	9.0	6.5	7.5	7.0	6.5	6.5	5.0	4.0	6.5	5.5	9.0	8.0
13	8.5	6.5	7.5	7.0	6.5	6.5	5.0	4.5	6.5	6.0	8.5	8.0
14	8.5	7.5	7.5	7.0	6.5	6.5	5.5	5.0	6.0	5.5	8.5	8.0
15	8.5	7.5	7.5	7.0	6.5	6.5	5.5	5.0	6.0	5.0	9.0	8.5
16	8.5	7.5	7.5	7.0	7.0	6.5	5.5	5.0	6.0	5.0	9.0	8.0
17	8.5	7.5	7.5	7.5	7.0	6.5	5.5	5.0	6.0	5.5	8.5	7.5
18	8.5	7.0	7.5	7.5	7.0	6.5	6.0	5.5	6.0	5.5	8.0	7.5
19	8.0	7.0	8.0	7.5	7.0	6.5	6.0	5.5	6.0	5.5	8.0	7.0
20	8.0	7.0	8.0	8.0	6.5	6.5	6.0	5.5	6.0	5.5	8.0	6.5
21	8.0	7.0	8.5	8.0	7.0	6.5	6.5	6.0	6.5	5.5	7.0	5.5
22	7.5	6.5	8.0	8.0	7.0	6.5	6.5	6.0	6.0	5.5	---	---
23	7.5	7.0	8.0	8.0	7.0	6.5	7.0	6.5	6.0	5.5	---	---
24	7.5	7.0	8.0	8.0	6.5	6.0	7.0	6.5	6.5	5.5	---	---
25	7.5	7.0	8.0	7.5	6.5	5.5	7.5	7.0	---	---	---	---
26	7.5	7.0	8.0	7.5	6.0	5.5	7.0	6.5	---	---	8.0	7.0
27	7.5	7.0	8.0	7.0	5.5	5.0	7.0	6.5	---	---	8.5	7.0
28	7.5	7.0	8.0	7.0	5.5	5.0	7.0	6.5	---	---	8.0	6.0
29	7.0	6.5	7.5	7.0	5.0	4.5	7.0	6.5	---	---	7.5	6.5
30	7.0	7.0	8.0	7.0	5.0	4.5	6.5	6.5	---	---	8.0	6.5
31	7.0	7.0	---	---	4.5	4.0	6.5	6.0	---	---	8.5	6.5
MONTH	9.5	6.5	8.5	6.5	7.5	4.0	7.5	4.0	7.0	5.0	9.0	5.5

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	9.0	7.0	9.0	7.5	8.5	7.5	9.5	8.0	13.5	11.5	10.0	8.5
2	7.5	6.5	9.0	7.5	8.0	6.5	10.5	8.5	13.5	11.0	10.0	8.0
3	7.0	6.5	9.0	7.5	8.0	7.0	10.5	8.5	13.0	10.5	9.5	8.0
4	7.5	6.0	9.5	8.5	8.5	6.5	11.0	8.5	13.0	10.5	9.5	8.0
5	7.0	6.0	9.5	8.0	8.5	6.5	11.5	9.0	13.0	11.0	9.0	8.0
6	7.5	6.5	9.0	7.5	9.0	7.5	11.5	9.0	13.5	11.0	9.5	8.0
7	7.5	6.5	9.0	7.5	9.0	7.5	12.0	9.0	13.5	11.5	9.5	8.0
8	7.5	6.5	9.0	8.0	9.0	7.0	11.5	9.5	13.5	11.5	9.0	8.0
9	8.0	6.5	9.5	8.0	9.0	7.0	12.0	9.5	13.5	11.0	9.0	7.5
10	8.0	6.5	9.0	8.0	9.0	7.0	11.5	9.5	13.5	11.0	8.5	8.0
11	8.5	7.0	8.0	6.5	9.0	7.5	11.5	9.5	13.5	11.5	9.0	7.5
12	8.5	6.5	8.5	6.5	9.0	7.5	12.0	9.5	13.5	11.5	9.5	8.5
13	8.5	6.5	8.5	6.5	9.0	7.0	12.0	9.5	12.5	11.0	10.0	8.5
14	7.5	6.5	8.0	6.5	9.0	7.0	11.5	9.5	12.0	10.0	10.0	8.5
15	8.0	6.5	8.0	7.0	9.0	7.5	11.5	10.0	11.5	10.0	9.5	8.5
16	8.0	6.0	7.5	6.5	9.5	8.0	12.0	10.0	11.5	9.5	9.5	8.5
17	8.0	6.0	8.0	6.0	9.0	8.0	12.0	10.0	10.0	9.5	10.0	9.0
18	9.0	6.5	8.0	6.0	9.5	7.5	12.0	9.5	11.0	9.5	10.0	9.0
19	9.0	7.0	8.5	7.5	9.0	8.0	12.0	10.0	11.5	9.5	10.0	9.0
20	9.0	7.5	8.5	7.5	9.0	7.0	12.5	10.0	11.5	9.5	10.0	9.0
21	9.5	7.5	8.5	7.0	9.0	8.0	12.5	10.0	11.5	10.0	10.0	9.5
22	9.0	7.5	8.5	6.5	9.5	8.5	12.5	10.0	11.0	9.0	10.0	9.5
23	8.0	7.5	8.0	6.5	9.5	8.5	13.0	10.5	11.0	9.0	10.0	9.0
24	8.0	7.0	8.5	7.0	9.5	8.5	13.5	10.5	11.0	9.5	10.0	9.0
25	8.5	7.0	9.0	7.0	9.0	7.5	13.5	11.0	11.0	9.5	10.0	9.0
26	9.0	6.5	8.5	7.0	9.0	7.5	13.0	10.5	11.5	9.5	10.0	9.5
27	9.0	6.5	8.0	7.0	9.0	7.5	12.5	10.0	12.0	9.5	10.0	9.5
28	9.5	7.0	8.5	7.0	9.5	7.5	13.0	10.0	11.5	9.5	10.0	9.0
29	9.5	7.5	8.5	6.5	9.5	7.5	13.5	10.5	11.0	9.0	10.0	9.0
30	9.5	7.5	8.5	6.0	9.5	8.0	14.0	11.0	10.5	8.5	10.0	9.5
31	---	---	8.5	7.5	---	---	14.0	10.5	10.0	8.5	---	---
MONTH	9.5	6.0	9.5	6.0	9.5	6.5	14.0	8.0	13.5	8.5	10.0	7.5



## 11526500 NORTH FORK TRINITY RIVER AT HELENA, CALIF.

LOCATION.--Lat 40°46'55", long 123°07'38", in SW¼SW¼ sec.21, T.34 N., R.11 W., Trinity County, on right bank 500 ft (152 m) downstream from East Fork of North Fork Trinity River, 0.6 mi (1.0 km) north of Helena, 1.0 mi (1.6 km) upstream from mouth, and 6 mi (10 km) northwest of Junction City.

DRAINAGE AREA.--151 mi<sup>2</sup> (391 km<sup>2</sup>).

PERIOD OF RECORD.--August 1911 to September 1913, January 1957 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,380 ft (421 m), from topographic map. August 1911 to September 1913, at site 0.8 mi (1.3 km) downstream at different datum.

AVERAGE DISCHARGE.--20 years, 461 ft<sup>3</sup>/s (13.06 m<sup>3</sup>/s), 334,000 acre-ft/yr (412 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 2,850 ft<sup>3</sup>/s (80.7 m<sup>3</sup>/s) Mar. 25 (gage height, 11.57 ft or 3.526 m); minimum daily, 27 ft<sup>3</sup>/s (0.76 m<sup>3</sup>/s) Oct. 1, 5-13, 16-24.  
Period of record: Maximum discharge, 35,800 ft<sup>3</sup>/s (1,010 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 27.93 ft or 8.513 m, from floodmarks), from rating curve extended above 9,000 ft<sup>3</sup>/s (255 m<sup>3</sup>/s) on basis of slope-area measurement of maximum flow; minimum daily, 7.5 ft<sup>3</sup>/s (0.21 m<sup>3</sup>/s) Sept. 26, 1964.

REMARKS.--No known regulation or diversion above station.

COOPERATION.--Records furnished by California Department of Water Resources and reviewed by Geological Survey.

REVISIONS (WATER YEARS).--WSP 1565: 1912-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	35	42	99	239	1670	1350	976	1380	241	87	49
2	28	33	80	91	223	2060	1170	1070	1230	236	82	46
3	28	33	236	98	209	1670	1060	1190	1080	231	85	44
4	28	32	340	237	214	1300	940	1040	1040	251	85	42
5	27	32	158	536	221	1070	857	864	1140	266	83	40
6	27	31	116	847	228	941	763	797	1010	256	76	38
7	27	48	98	883	293	1110	708	822	916	259	72	37
8	27	55	89	1680	517	1630	658	1000	787	279	69	36
9	27	40	79	887	1490	1380	633	1230	720	277	68	36
10	27	45	71	684	1250	1110	676	1310	733	284	68	36
11	27	40	124	600	910	916	737	1290	740	302	68	36
12	27	36	278	492	1290	801	834	1250	750	301	68	35
13	27	35	286	423	1770	721	1010	1460	772	273	67	34
14	28	34	318	382	1400	645	1090	1960	794	249	66	37
15	28	34	417	359	991	619	933	1890	773	237	63	36
16	27	33	289	342	769	586	805	1540	648	247	61	35
17	27	35	213	341	635	601	713	1490	511	205	62	34
18	27	80	167	371	566	1320	672	1610	417	192	89	33
19	27	55	139	393	1130	2070	712	1570	380	190	78	32
20	27	46	136	418	1460	1510	805	1200	356	194	69	32
21	27	77	151	404	1010	1250	847	985	371	194	63	31
22	27	106	133	396	784	1060	874	931	362	183	60	30
23	27	62	118	387	686	976	867	1070	340	165	57	30
24	27	54	106	422	702	1170	1360	1180	306	160	58	29
25	28	68	96	457	806	2550	1420	1070	263	145	56	29
26	28	60	95	432	835	1840	1080	1050	242	130	54	28
27	33	54	134	361	1010	1420	914	1150	247	132	54	28
28	71	50	115	317	1530	1220	862	1160	250	134	62	28
29	50	46	100	278	---	1130	860	1250	251	130	60	28
30	37	44	107	247	---	1330	919	1360	246	114	55	28
31	36	---	92	246	---	1550	---	1460	---	97	52	---
TOTAL	936	1433	4923	14110	23168	39226	27129	38225	19055	6554	2097	1037
MEAN	30.2	47.8	159	455	827	1265	904	1233	635	211	67.6	34.6
MAX	71	106	417	1680	1770	2550	1420	1960	1380	302	89	49
MIN	27	31	42	91	209	586	633	797	242	97	52	28
AC-FT	1860	2840	9760	27990	45950	77800	53810	75820	37800	13000	4160	2060
CAL YR 1974	TOTAL	232714	MEAN 638	MAX	16200	MIN 27	AC-FT	461600				
WTR YR 1975	TOTAL	177893	MEAN 487	MAX	2550	MIN 27	AC-FT	352900				

## KLAMATH RIVER BASIN

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, on left bank 500 ft (152 m) upstream from Cedar Flat Creek, 700 ft (213 m) upstream from highway bridge at Cedar Flat, and 2.3 mi (3.7 km) southeast of town of Burnt Ranch.

DRAINAGE AREA.--1,439 mi<sup>2</sup> (3,727 km<sup>2</sup>).

PERIOD OF RECORD.--October 1931 to September 1940, October 1956 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 944.05 ft (287.746 m) above mean sea level. Oct. 1, 1931, to Jan. 19, 1940, at site 2 mi (3 km) upstream at different datum.

AVERAGE DISCHARGE.--13 years (1931-40, 1956-60), 2,785 ft<sup>3</sup>/s (78.87 m<sup>3</sup>/s), 2,016,000 acre-ft/yr (2.49 km<sup>3</sup>/yr); 15 years (1960-75), 1,747 ft<sup>3</sup>/s (49.48 m<sup>3</sup>/s), 1,266,000 acre-ft/yr (1.56 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 8,240 ft<sup>3</sup>/s (233 m<sup>3</sup>/s) Mar. 25 (gage height, 11.42 ft or 3.481 m); minimum daily, 319 ft<sup>3</sup>/s (9.03 m<sup>3</sup>/s) Sept. 27-30.  
Period of record: Maximum discharge, 81,500 ft<sup>3</sup>/s (2,310 m<sup>3</sup>/s) Feb. 25, 1958 (gage height, 30.50 ft or 9.296 m, from rating curve extended above 40,000 ft<sup>3</sup>/s (1,130 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 43.2 ft (13.17 m); minimum, 82 ft<sup>3</sup>/s (2.32 m<sup>3</sup>/s) Aug. 31, 1939.  
Flood of Dec. 22, 1955, reached a stage of 43.2 ft (13.17 m), from floodmarks (discharge, 172,000 ft<sup>3</sup>/s or 4,870 m<sup>3</sup>/s, on basis of slope-area measurement of maximum flow).

REMARKS.--Records good. Flow regulated by Clair Engle Lake 64 mi (103 km) upstream since November 1960 (see sta 11525400). Small diversions above station for mining and irrigation.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	325	454	389	494	912	3910	4990	2890	4580	1270	482	346
2	332	431	438	494	929	4630	4480	3150	4260	1220	462	339
3	329	427	760	478	883	4290	4130	3390	3980	1140	454	339
4	329	423	1510	660	959	3600	3820	3360	3740	1110	454	357
5	329	419	894	900	959	3140	3550	3090	4070	1130	454	357
6	329	416	656	2230	983	2890	3260	2950	3900	1080	442	357
7	329	442	562	1860	1310	4300	3030	3670	3670	1010	431	353
8	329	510	518	4000	1860	7740	2870	3310	3470	1040	419	353
9	329	458	490	2620	4080	6270	2700	3820	3250	1030	408	353
10	326	438	470	2050	4340	4830	2660	4150	3240	1040	408	353
11	326	431	490	1850	3210	4070	2700	4190	3190	1080	404	353
12	326	427	690	1620	4990	3510	2800	4180	3190	1110	401	353
13	326	419	1010	1450	7610	3130	3070	4490	3200	1050	397	353
14	326	419	877	1350	5910	3200	3360	5170	3170	971	397	357
15	326	416	1160	1300	4160	3170	3180	5410	3160	941	386	360
16	343	393	995	1240	3270	3100	2870	4890	2890	965	378	360
17	371	367	804	1220	2660	3050	2640	4790	2540	889	371	357
18	375	438	695	1230	2340	5350	2490	5020	2310	820	419	353
19	375	458	622	1230	2930	7780	2470	5240	2170	793	470	350
20	375	416	590	1160	4570	6650	2560	4770	2070	804	431	343
21	375	408	618	1190	3530	5610	2620	4390	2040	804	404	343
22	375	535	622	1170	2920	4900	2700	4200	1980	776	386	339
23	378	482	562	1130	2580	4420	2770	4300	1900	725	375	332
24	382	431	522	1110	2450	4580	3260	4520	1810	700	367	332
25	386	450	502	1260	2520	7770	4040	4360	1690	670	364	332
26	389	454	486	1230	2590	7330	3380	4150	1560	622	357	326
27	404	427	622	995	2660	6040	3000	4280	1510	594	346	319
28	558	416	670	735	3600	5210	2830	4250	1460	599	350	319
29	571	404	571	690	---	4650	2770	4310	1400	580	371	319
30	470	397	540	735	---	4750	2810	4470	1330	553	367	319
31	458	---	522	877	---	5310	---	4480	---	518	357	---
TOTAL	11501	13006	20857	40558	81715	149180	93810	129000	82730	27634	12512	10326
MEAN	371	434	673	1308	2918	4812	3127	4161	2758	891	404	344
MAX	571	535	1510	4000	7610	7780	4990	5410	4580	1270	482	360
MIN	325	367	389	478	883	2890	2470	2890	1330	518	346	319
AC-FT	22810	25800	41370	80450	162100	295900	186100	255900	164100	54810	24820	20480
CAL YR 1974 TOTAL	1073428			MEAN 2941	MAX 52300	MIN 313	AC-FT 2129000					
WTR YR 1975 TOTAL	672829			MEAN 1843	MAX 7780	MIN 319	AC-FT 1335000					

## 11527000 TRINITY RIVER NEAR BURNT RANCH, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: October 1958 to September 1966.

Water temperatures: October 1961 to September 1964, October 1966 to September 1967, October 1968 to current year.

Sediment records: Water year 1968 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 22.5°C on several days during July and August; minimum, 3.5°C Jan. 30 to Feb. 2.

Period of record:

Water temperatures (1962-64, 1966-67, 1968 to current year): Maximum, 27.0°C Aug. 17-19, 24, 1967; minimum (1962-63, 1966-67, 1968 to current year), freezing point Dec. 7-11, 1972.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

## KLAMATH RIVER BASIN

11527000 TRINITY RIVER NEAR BURNT RANCH, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.5	7.5	11.5	9.0	15.0	13.5	17.5	15.5	21.0	18.5	20.0	18.0
2	8.0	7.5	10.5	9.5	15.0	13.0	18.5	16.0	21.5	18.5	21.0	18.0
3	7.5	7.5	10.5	8.5	15.5	14.0	19.0	16.5	21.5	19.0	21.0	19.0
4	7.5	7.5	9.0	8.0	16.0	14.0	19.0	17.5	21.5	19.0	21.5	19.0
5	7.5	7.0	10.0	8.5	16.0	14.5	19.5	17.5	21.0	19.0	21.5	19.5
6	7.5	7.0	11.5	10.0	16.0	14.0	19.5	18.0	21.0	19.0	21.5	19.5
7	7.5	7.0	12.5	10.0	16.0	14.0	20.0	18.0	20.5	18.5	21.0	18.5
8	9.0	7.0	13.0	10.5	16.5	14.0	20.0	18.0	21.0	18.5	21.0	18.5
9	9.5	7.0	13.0	11.0	17.0	14.5	20.0	18.0	21.5	19.0	20.5	19.5
10	9.5	8.0	12.0	10.5	17.0	14.5	20.0	18.5	22.0	19.5	20.0	19.0
11	10.5	8.0	12.5	10.0	17.0	15.0	20.5	19.0	22.5	20.0	21.0	19.0
12	10.5	7.5	13.5	10.5	17.5	15.0	20.5	19.0	22.5	20.5	20.5	19.0
13	9.0	8.0	14.0	11.0	17.5	15.5	20.5	19.0	22.5	20.5	20.0	19.0
14	9.0	7.5	14.0	12.0	18.0	15.5	20.0	19.0	22.5	20.5	20.0	19.0
15	7.5	6.5	12.5	11.0	17.5	16.0	19.5	19.0	22.0	20.0	20.0	19.5
16	8.0	6.5	13.0	11.0	17.0	15.5	20.0	19.0	22.0	20.0	20.0	19.5
17	9.0	6.5	14.0	11.0	16.0	14.5	20.5	18.5	22.0	20.0	19.5	17.5
18	9.5	7.5	14.0	12.0	16.5	13.5	20.5	18.5	20.5	19.5	19.5	17.0
19	10.5	8.5	13.5	11.5	17.0	14.0	21.0	19.0	20.5	19.5	19.5	17.5
20	11.5	9.0	12.0	10.0	17.0	14.5	21.5	20.0	21.0	19.5	19.5	17.5
21	11.0	8.5	12.0	10.0	18.0	15.0	22.0	20.0	21.5	19.5	19.5	17.5
22	10.0	9.0	13.5	11.0	16.5	15.0	21.5	19.5	21.5	20.0	19.0	17.5
23	9.5	8.5	14.5	12.5	16.5	15.0	22.0	19.5	21.5	20.0	19.0	17.0
24	9.0	8.0	14.5	12.0	15.5	14.0	22.5	19.5	21.0	20.0	19.0	17.0
25	8.0	7.5	14.5	11.5	16.5	13.5	22.5	20.0	21.5	20.0	19.0	17.0
26	8.0	7.5	14.5	13.0	17.0	15.5	22.5	20.0	21.5	19.5	19.0	17.0
27	9.5	8.0	14.5	12.5	17.0	15.0	22.5	20.5	21.0	19.5	18.5	16.5
28	11.0	8.5	15.5	12.5	17.5	14.5	22.0	20.5	20.5	19.5	18.0	16.0
29	11.0	8.5	15.5	13.0	17.5	15.0	20.5	19.0	20.5	19.0	18.0	16.0
30	12.0	8.5	16.0	13.5	17.0	15.5	20.5	18.5	20.5	18.5	18.0	16.0
31	---	---	15.5	13.5	---	---	---	---	20.0	18.0	---	---
MONTH	12.0	6.5	16.0	8.0	18.0	13.0	22.5	15.5	22.5	18.0	21.5	16.0

## 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, on left bank 0.3 mi (0.5 km) downstream from Big Creek, 3.0 mi (4.8 km) northeast of Hyampom, and 3.5 mi (5.6 km) downstream from Hayfork Creek.

DRAINAGE AREA.--764 mi<sup>2</sup> (1,979 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 1,211.37 ft (369.226 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 1,695 ft<sup>3</sup>/s (48.00 m<sup>3</sup>/s), 1,228,000 acre-ft/yr (1.51 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 30,600 ft<sup>3</sup>/s (867 m<sup>3</sup>/s) Mar. 18 (gage height, 18.75 ft or 5.715 m); minimum daily, 66 ft<sup>3</sup>/s (1.87 m<sup>3</sup>/s) Oct. 1.  
Period of record: Maximum discharge, 69,300 ft<sup>3</sup>/s (1,960 m<sup>3</sup>/s) Jan. 16, 1974 (gage height, 26.68 ft or 8.132 m), from rating curve extended above 23,000 ft<sup>3</sup>/s (651 m<sup>3</sup>/s) on basis of flood-routing study at gage height 30.45 ft (9.281 m); minimum daily, 38 ft<sup>3</sup>/s (1.08 m<sup>3</sup>/s) Sept. 14, 15, 1973.  
Flood of Dec. 22, 1964, reached a stage of 30.45 ft (9.281 m), from floodmarks (discharge, 88,000 ft<sup>3</sup>/s or 2,490 m<sup>3</sup>/s on basis of flood-routing study).

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	66	148	148	456	570	5230	5490	2990	1240	388	172	114
2	69	139	307	427	661	7050	5010	2960	1210	384	165	112
3	69	131	876	403	656	6070	4660	3110	1140	377	158	110
4	68	126	1450	555	744	5010	4310	2850	1080	365	154	106
5	68	122	716	934	750	4450	4050	2380	1040	351	147	102
6	68	121	525	3430	767	4280	3650	2130	987	344	143	99
7	68	145	440	2920	1260	5610	3320	2030	928	333	143	95
8	68	191	392	4360	2530	9300	3090	2050	876	318	143	92
9	71	174	358	2910	6760	7210	2870	2150	827	305	141	91
10	73	150	329	2380	5350	5680	2800	2220	779	291	139	91
11	73	142	333	1910	3750	4780	2900	2230	744	281	135	92
12	73	136	380	1540	13300	4180	2960	2060	710	275	133	92
13	73	132	448	1350	20600	3840	3170	2070	683	271	127	92
14	73	128	560	1220	8930	3510	3360	2210	656	262	123	95
15	73	125	594	1130	5330	3290	3110	2160	630	259	120	97
16	73	123	530	1040	3960	3340	2810	1980	594	268	116	101
17	71	125	456	954	3130	4060	2590	1830	570	275	118	99
18	71	156	423	902	2680	22900	2440	1800	555	259	133	97
19	71	174	384	845	5380	20500	2530	1750	540	247	143	94
20	70	160	362	809	7860	9980	2680	1610	520	238	143	92
21	70	159	365	773	4970	7500	2710	1510	496	232	141	89
22	70	209	377	727	4020	6310	2680	1470	474	224	133	88
23	73	190	351	678	3580	5400	2630	1470	461	215	127	88
24	73	171	326	651	3410	6460	4010	1450	478	204	125	86
25	74	216	311	625	3570	16600	4930	1400	478	199	120	85
26	75	239	305	630	3630	10300	3650	1350	456	189	116	85
27	84	201	710	599	3780	7350	3120	1330	440	184	112	83
28	164	176	1050	560	4640	5960	2970	1290	427	177	112	82
29	275	164	699	545	---	5280	2920	1280	415	172	112	82
30	180	154	584	510	---	5520	2950	1280	400	172	114	81
31	156	---	510	525	---	5980	---	1270	---	172	114	---
TOTAL	2703	4727	15599	37298	126568	222930	100370	59670	20834	8231	4122	2812
MEAN	87.2	158	503	1203	4520	7191	3346	1925	694	266	133	93.7
MAX	275	239	1450	4360	20600	22900	5490	3110	1240	388	172	114
MIN	66	121	148	403	570	3290	2440	1270	400	172	112	81
AC-FT	5360	9380	30940	73980	251000	442200	199100	118400	41320	16330	8180	5580
CAL YR 1974	TOTAL	751308	MEAN	2058	MAX	59200	MIN	64	AC-FT	1490000		
WTR YR 1975	TOTAL	605864	MEAN	1660	MAX	22900	MIN	66	AC-FT	1202000		

Peak discharge (base, 8,600 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-12	1945	17.31	25,500	3-18	2215	18.75	30,600
2-19	2400	12.19	10,900	3-25	0845	15.80	20,600
3-8	1030	12.13	10,800				

## KLAMATH RIVER BASIN

11528700 SOUTH FORK TRINITY RIVER BELOW HYAMPOM, CALIF.--Continued

PERIOD OF RECORD.--Water temperatures: October 1965 to current year.  
Sediment records: October 1966 to September 1970.

EXTREMES.--Current year:

Water temperatures: Maximum, 26.0°C Aug. 11; minimum, 2.0°C Jan. 2, 3, Feb. 4.

Period of record:

Water temperatures: Maximum, 29.0°C June 30, July 1, 3, 1967, Aug. 1, 2, 1968; minimum, freezing point on several days in 1965, 1967-68, 1972.

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	21.0	13.0	12.5	9.5	8.0	6.0	4.5	2.5	6.5	6.0	7.0	6.5
2	19.0	13.5	12.5	8.5	8.0	7.0	3.5	2.0	6.5	5.5	7.5	6.5
3	19.5	13.5	13.0	8.5	7.5	7.0	3.5	2.0	5.5	3.0	7.5	6.5
4	18.5	12.5	12.0	8.5	7.5	6.5	5.0	3.5	4.5	2.0	8.0	6.0
5	18.5	11.5	13.5	9.5	7.5	7.0	5.5	4.5	3.0	2.5	7.0	6.0
6	18.5	11.0	14.0	10.0	9.0	7.5	6.0	5.5	4.0	3.0	8.0	7.0
7	19.0	11.0	12.5	10.5	10.0	8.0	7.0	6.0	6.0	4.0	8.0	7.5
8	16.0	12.5	11.5	10.0	9.0	7.0	7.0	5.5	4.5	3.5	7.5	7.0
9	18.0	12.5	11.5	9.0	8.5	7.0	5.5	4.5	4.0	3.5	7.5	6.5
10	18.5	11.5	13.0	10.5	8.0	7.0	5.5	4.5	5.5	4.0	7.5	6.5
11	18.5	11.5	12.5	9.5	9.0	7.5	6.0	5.5	6.0	5.0	8.5	6.5
12	18.5	11.5	12.5	9.5	9.0	7.5	6.0	5.5	6.0	5.0	8.0	6.5
13	19.0	11.0	12.5	9.0	8.5	7.0	6.0	5.0	6.5	5.0	7.0	5.5
14	18.5	11.5	12.0	10.0	8.5	7.5	6.0	4.5	6.0	5.0	7.5	5.0
15	18.5	11.5	12.5	10.0	10.0	8.5	6.0	4.5	5.5	4.5	6.5	5.0
16	18.5	11.5	10.5	9.5	10.0	8.5	6.0	5.0	5.5	4.5	6.0	4.0
17	18.0	11.5	11.0	10.0	8.5	7.5	6.5	6.0	5.0	3.5	5.5	4.0
18	18.5	11.5	11.5	10.5	7.5	7.0	7.0	6.5	6.0	4.5	6.0	4.0
19	17.5	12.0	11.5	9.5	8.0	7.0	7.0	6.5	6.5	5.5	7.0	6.0
20	16.5	11.5	11.5	9.0	9.0	7.5	7.0	7.0	6.0	5.0	6.0	5.0
21	17.0	10.0	12.0	9.5	8.5	7.0	7.0	6.5	5.5	4.0	5.5	3.0
22	17.0	9.5	10.0	8.5	7.0	5.5	7.0	6.0	5.5	4.0	4.5	2.5
23	16.0	10.0	10.5	8.0	6.5	4.5	7.0	6.5	6.5	4.5	5.5	4.0
24	15.5	10.0	11.0	8.5	5.5	3.5	7.5	7.0	7.0	5.0	5.5	5.0
25	16.0	10.5	11.0	9.0	5.0	3.5	8.0	7.5	7.0	5.5	6.0	5.0
26	16.0	11.0	10.0	8.5	5.5	3.5	8.0	7.0	6.0	5.0	6.0	4.0
27	14.0	12.0	10.0	8.5	6.0	5.0	7.0	6.5	7.0	6.0	7.0	5.0
28	13.5	10.5	10.0	8.0	5.0	3.5	6.5	6.0	8.0	6.5	6.5	4.0
29	12.5	9.0	9.0	6.5	4.0	3.0	6.5	6.0	---	---	7.5	4.0
30	12.0	10.0	8.5	6.0	4.5	3.5	6.0	5.5	---	---	8.0	5.5
31	13.0	11.0	---	---	4.5	3.0	6.0	6.0	---	---	7.5	5.5
MONTH	21.0	9.0	14.0	6.0	10.0	3.0	8.0	2.0	8.0	2.0	8.5	2.5

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

## 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, on left bank at Hoopa, 0.4 mi (0.6 km) upstream from Supply Creek.

DRAINAGE AREA.--2,854 mi<sup>2</sup> (7,392 km<sup>2</sup>).

PERIOD OF RECORD.--October 1911 to January 1914, October 1916 to September 1918, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B. Published as "near Hoopa" 1931-60.

GAGE.--Water-stage recorder. Datum of gage is 274.82 ft (83.765 m) above mean sea level. Prior to October 1931, nonrecording gage at site 0.4 mi (0.6 km) upstream at different datum. October 1931 to Dec. 22, 1964, water-stage recorder at site 2.5 mi (4.0 km) upstream at datum 31.67 ft (9.653 m) higher.

AVERAGE DISCHARGE (unadjusted).--48 years (1911-13, 1916-18, 1931-75), 5,463 ft<sup>3</sup>/s (154.7 m<sup>3</sup>/s), 3,958,000 acre-ft/yr (4.88 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 66,000 ft<sup>3</sup>/s (1,870 m<sup>3</sup>/s) Mar. 19 (gage height, 33.85 ft or 10.318 m); minimum daily, 505 ft<sup>3</sup>/s (14.3 m<sup>3</sup>/s) Oct. 1.

Period of record: Maximum discharge, 231,000 ft<sup>3</sup>/s (6,540 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 57.0 ft or 17.37 m, from floodmarks, present site and datum); minimum, 162 ft<sup>3</sup>/s (4.59 m<sup>3</sup>/s) Oct. 4, 1931.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Flow regulated by Clair Engle Lake 84 mi (135 km) upstream since November 1960 (see sta 11525400). Small diversions above station for mining and irrigation.

REVISIONS (WATER YEARS).--WSP 1565: 1913. WRD Calif. 1970: 1969.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	505	783	786	2000	2870	14100	16400	8380	8230	2150	938	681
2	510	747	878	1880	3180	18800	14200	8570	7730	2050	891	671
3	514	720	2130	1770	3140	17900	12400	9110	7140	1950	864	657
4	515	709	5180	2530	3570	14200	11200	9080	6630	1900	844	665
5	515	700	3130	4380	3640	12000	10200	8170	6920	1950	840	673
6	515	694	2040	14100	3810	10900	9420	7560	6740	1850	821	656
7	520	777	1680	10700	4650	12000	8820	7480	6130	1700	808	643
8	521	957	1490	18800	6750	24600	8460	7870	5800	1750	790	640
9	519	909	1370	12000	16500	21000	8010	8780	5550	1750	779	640
10	520	832	1290	10100	18200	15800	7770	9430	5400	1800	767	629
11	520	788	1540	8060	12500	12600	7840	9620	5300	1850	751	628
12	520	768	2120	6420	23800	10900	8000	9260	5120	1850	755	628
13	520	750	3040	5360	47900	9690	8480	9720	5070	1750	737	629
14	520	738	3790	4790	31600	9040	9070	11100	4970	1650	726	625
15	520	729	4410	4410	21000	8700	8830	11400	4710	1600	716	644
16	518	722	3330	4140	13900	8880	8100	9860	4450	1600	707	676
17	538	694	2710	3910	10200	10500	7520	9500	4150	1550	690	658
18	550	866	2260	3810	8720	44700	7080	9860	3900	1380	731	645
19	551	985	1980	3730	15600	55700	7020	10300	3600	1350	807	636
20	559	873	1800	3700	25900	32800	7340	9100	3450	1400	802	641
21	556	829	1880	3570	17700	23900	7540	8340	3500	1380	767	648
22	556	1010	2040	3440	14700	20400	7650	7920	3400	1300	738	644
23	556	1030	1840	3320	10600	17500	7790	7940	3250	1250	718	649
24	556	898	1680	3210	9730	18300	9480	8260	3000	1200	716	643
25	561	1040	1570	3260	9620	42800	14000	8040	2850	1150	690	641
26	573	1080	1510	3350	9690	36600	10300	7620	2700	1120	676	622
27	591	991	2780	3120	10100	27600	9120	7720	2600	1050	670	585
28	786	914	4220	2870	12900	21600	8630	7770	2450	1030	692	582
29	1060	898	3140	2710	---	16000	8330	7780	2350	1020	709	582
30	924	816	2540	2540	---	16600	8260	8060	2200	1010	709	582
31	816	---	2240	2550	---	17700	---	8290	---	968	693	---
TOTAL	18005	25207	72394	160530	372470	623810	277260	271890	139290	47308	23542	19143
MEAN	581	840	2335	5178	13300	20120	9242	8771	4643	1526	759	638
MAX	1060	1080	5180	18800	47900	55700	16400	11400	8230	2150	938	681
MIN	505	694	786	1770	2870	8700	7020	7480	2200	968	670	582
AC-FT	35710	50000	143600	318400	738800	1237000	549900	539300	276300	93840	46700	37970

CAL YR 1974 TOTAL 2401091 MEAN 6578 MAX 118000 MIN 503 AC-FT 4763000  
WTR YR 1975 TOTAL 2050849 MEAN 5619 MAX 55700 MIN 505 AC-FT 4068000

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
2-13	1130	31.12	50,900	3-19	0145	33.85	66,000
2-20	0415	26.38	30,500	3-25	1400	31.08	50,700
3-8	1630	25.47	27,000				

NOTE.--No gage-height record June 15 to July 23.

## KLAMATH RIVER BASIN

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to current year.

Water temperatures: November 1956 to current year.

Sediment records: Water years 1955-56 (partial-record station), November 1956 to current year.

Prior to October 1964, published as "near Hoopa."

EXTREMES.--Current year:

Water temperatures: Maximum, 25.5°C July 23, 26-28; minimum, 2.5°C Feb. 1, 2.

Sediment concentrations: Maximum daily, 2,290 mg/l Mar. 18; minimum daily, 3 mg/l Nov. 20, 30, Sept. 2, 6, 15.

Sediment discharge: Maximum daily, 312,000 tons (283,000 tonnes) Mar. 18; minimum daily, 5.2 tons (4.7 tonnes) Sept. 15.

Period of record:

Water temperatures: Maximum (1963-66, 1968-69, 1973 to current year), 27.0°C July 16, 1965; minimum (1964-71, 1973 to current year), 2.0°C on several days in 1967-68, 1971.

Sediment concentrations: Maximum daily, 20,400 mg/l Dec. 23, 1964; minimum daily, 1 mg/l on many days in 1957-64, 1968-70.

Sediment discharge: Maximum daily, 8,900,000 tons (8,070,000 tonnes) Dec. 23, 1964; minimum daily, 0.81 ton (0.73 tonne) Sept. 30, 1969.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Measurement of suspended sediment made at bridge on State Highway 96, 1.0 mi (1.6 km) downstream from gaging station. No appreciable inflow between sampling point and gaging station except during periods of heavy runoff.

REVISIONS (WATER YEARS).--WRD Calif. 1970: 1969.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS-CHARGE (CFS)	INSTAN- TANEOUS DIS-CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT. 01...	0930	--	505	203	8.0	16.0	1	10.0
NOV. 12...	1100	--	769	209	7.9	10.5	1	11.2
DEC. 02...	1100	--	811	208	8.1	8.0	1	11.3
JAN. 06...	1215	--	15300	122	7.8	6.0	85	12.5
FEB. 18...	1315	--	8720	151	7.9	7.0	45	12.6
MAR. 10...	1020	--	16100	131	8.4	8.0	110	11.1
12...	1050	--	11600	141	7.5	8.0	65	11.5
APR. 14...	1005	--	8960	148	7.6	9.0	40	10.9
MAY 12...	1010	--	9380	114	8.2	12.0	20	10.4
JUNE 09...	0900	--	5180	114	7.4	16.0	10	9.2
JULY 07...	1020	1700	--	149	7.8	20.0	1	8.9
AUG. 11...	0945	--	755	194	8.0	21.5	1	8.9
SEP. 02...	1200	--	673	190	8.0	20.0	0	9.6

DATE	TIME	INSTAN- TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	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)
JAN. 06...	1215	15300	--	--	--	--	2.8	--	67	0	55	--
MAR. 12...	1050	11600	--	--	17	5.5	2.6	.7	75	0	62	4.8
APR. 14...	1005	8960	4600	60	--	--	2.2	--	83	0	68	--
MAY 12...	1010	9380	--	--	--	--	2.0	--	63	0	52	--
JUNE 09...	0900	5180	--	--	--	--	2.1	--	56	0	46	--
SEP. 02...	1200	673	--	--	--	--	4.2	--	102	0	84	--



11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
JAN. 06...	2.1	.08	--	--	--	--	--	61	6	--	.2
MAR. 12...	1.9	.03	.20	.13	82	.11	2570	65	3	8	.1
APR. 14...	1.0	.01	.10	.21	--	--	--	70	2	--	.1
MAY 12...	.7	.12	--	--	--	--	--	54	2	--	.1
JUNE 09...	1.9	.05	--	--	--	--	--	48	2	--	.1
SEP. 02...	4.0	.10	--	--	--	--	--	92	8	--	.2

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JAN. 06...	122	7.8	6.0	85	12.5	1.7	100	--	--	--	--
MAR. 12...	141	7.5	8.0	65	11.5	3.8	100	--	--	--	--
APR. 14...	148	7.6	9.0	40	10.9	3.3	0	0	10	0	10
MAY 12...	114	8.2	12.0	20	10.4	.6	0	--	--	--	--
JUNE 09...	114	7.4	16.0	10	9.2	3.6	0	--	--	--	--
SEP. 02...	190	8.0	20.0	0	9.6	1.6	0	--	--	--	--

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	16.0	12.0	10.5	8.0	7.5	5.0	4.0	3.0	2.5	8.5	8.0
2	19.0	16.0	11.0	9.5	8.5	8.0	4.0	3.5	3.0	2.5	8.5	8.0
3	18.5	16.5	10.5	9.0	9.0	8.0	4.5	3.0	4.5	3.0	8.5	8.0
4	17.5	15.0	10.5	9.5	8.5	8.0	5.5	4.0	5.0	4.0	8.5	7.5
5	16.5	14.5	11.0	9.5	8.0	7.5	6.0	5.0	5.0	4.5	8.5	7.5
6	16.5	14.0	11.0	10.0	9.0	8.0	7.0	6.0	6.5	4.5	9.0	7.5
7	16.0	14.0	11.0	10.5	9.5	8.5	7.5	6.0	6.5	5.5	9.0	8.5
8	15.5	14.0	11.0	10.0	9.0	8.0	7.5	6.5	6.0	6.0	8.5	8.0
9	16.0	13.5	10.5	9.5	9.0	8.0	6.5	5.5	6.0	5.5	8.0	8.0
10	15.5	13.5	11.5	10.0	8.5	8.0	6.0	5.0	7.0	5.5	8.5	7.5
11	16.0	13.5	11.0	10.0	8.5	8.0	7.0	6.0	7.0	6.5	9.0	7.5
12	16.0	13.5	11.0	10.0	9.0	8.5	7.0	6.0	7.0	6.0	8.5	7.5
13	15.5	13.5	11.0	10.0	8.5	8.0	7.0	6.5	7.0	6.0	8.0	7.5
14	15.5	13.5	11.0	10.0	9.0	8.0	6.5	6.0	7.0	6.5	8.0	7.0
15	15.5	13.5	11.5	10.0	10.0	8.5	6.0	5.5	6.5	6.0	7.5	7.0
16	15.5	13.5	11.0	10.0	0.0	9.0	6.5	5.5	6.5	6.0	7.0	6.5
17	15.0	13.0	10.5	10.0	9.5	8.5	6.5	5.5	6.0	5.5	7.0	6.5
18	15.0	13.0	11.0	10.0	8.5	8.0	6.5	6.0	7.0	5.5	7.0	6.0
19	15.0	13.0	10.5	10.0	8.5	7.5	6.5	6.0	7.0	6.5	7.5	6.5
20	14.5	13.0	10.5	9.5	9.0	8.0	6.5	6.0	7.0	6.0	7.5	7.0
21	14.0	11.5	10.5	10.0	9.0	8.0	7.0	6.0	6.5	6.0	7.5	5.5
22	13.0	11.0	10.0	9.5	8.0	7.0	7.0	6.0	6.5	5.5	6.0	5.0
23	13.0	11.0	9.5	8.5	7.0	5.5	7.5	6.5	7.0	6.0	7.0	6.0
24	13.0	11.0	9.5	8.0	5.5	5.0	8.0	7.0	7.5	6.0	7.5	6.5
25	12.5	11.0	10.0	8.5	5.5	4.5	9.0	7.5	8.0	7.0	7.5	6.5
26	13.0	11.0	9.5	8.5	5.5	4.5	8.5	6.5	7.5	7.0	7.5	6.5
27	13.0	12.0	9.5	8.5	6.5	5.0	6.5	5.5	8.0	7.0	8.0	7.0
28	12.5	11.5	9.5	8.5	6.0	4.5	5.5	4.5	9.0	8.0	7.5	7.0
29	12.5	10.5	9.0	7.5	5.0	4.5	5.0	4.0	---	---	8.5	6.5
30	11.5	10.5	8.5	7.5	5.5	4.5	4.5	3.5	---	---	9.0	8.0
31	12.5	11.0	---	---	5.0	4.0	3.5	3.0	---	---	9.0	8.0
MONTH	19.0	10.5	12.0	7.5	10.0	4.0	9.0	3.0	9.0	2.5	9.0	5.0

## KLAMATH RIVER BASIN

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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

## SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	505	4	5.5	783	10	21	786	6	13
2	510	8	11	747	8	16	878	4	9.5
3	514	4	5.6	720	6	12	2130	132	982
4	515	4	5.6	709	5	9.6	5180	434	6110
5	515	4	5.6	700	4	7.6	3130	240	2030
6	515	4	5.6	694	4	7.5	2040	93	512
7	520	4	5.6	777	7	15	1680	48	218
8	521	4	5.6	957	10	26	1490	32	129
9	519	4	5.6	909	5	12	1370	16	59
10	520	6	8.4	832	5	11	1290	10	35
11	520	6	8.4	788	5	11	1540	20	83
12	520	6	8.4	768	4	8.3	2120	52	327
13	520	6	8.4	750	4	8.1	3040	102	837
14	520	10	14	738	4	8.0	3790	232	2720
15	520	9	13	729	6	12	4410	280	3330
16	518	8	11	722	7	14	3330	158	1420
17	538	7	10	694	5	9.4	2710	73	534
18	550	7	10	866	8	19	2260	28	171
19	551	6	8.9	985	7	19	1980	22	118
20	559	6	9.1	873	3	7.1	1800	15	73
21	556	6	9.0	829	10	22	1880	40	203
22	556	6	9.0	1010	12	33	2040	60	330
23	556	11	17	1030	9	25	1840	20	99
24	556	6	9.0	898	7	17	1680	16	73
25	561	6	9.1	1040	13	37	1570	14	59
26	573	8	12	1080	14	41	1510	11	45
27	591	10	16	991	6	16	2780	163	1790
28	786	13	28	914	16	39	4220	392	4470
29	1060	27	77	858	5	12	3140	241	2040
30	924	12	30	816	3	6.6	2540	138	946
31	816	8	18	---	---	---	2240	70	423
MONTH	18005	---	399.4	25207	---	502.2	72394	---	30188.5

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2000	35	189	2870	170	1320	14100	360	13700
2	1880	28	142	3180	124	1060	18800	718	36500
3	1770	27	129	3140	76	644	17900	440	21300
4	2530	69	486	3570	77	742	14200	325	12500
5	4380	310	5270	3640	65	639	12000	280	9070
6	14100	822	31300	3810	61	628	10900	247	7270
7	10700	435	12600	4650	200	2510	12000	395	14600
8	18800	797	40700	6750	470	8570	24600	1080	70700
9	12000	430	13900	16500	881	41200	21000	680	38600
10	10100	310	8450	18200	610	30000	15800	460	19600
11	8060	262	5700	12500	375	12700	12600	395	13400
12	6420	238	4130	23800	1230	112000	10900	390	11500
13	5360	189	2740	47900	1660	215000	9690	420	11000
14	4790	158	2040	31600	870	74200	9040	395	9640
15	4410	129	1540	21000	610	34600	8700	370	8690
16	4140	98	1100	13900	490	18400	8880	390	9350
17	3910	88	929	10200	382	10500	10500	455	12900
18	3810	87	895	8720	289	6800	44700	2290	31200
19	3730	82	826	15600	776	41200	55700	1560	23500
20	3700	78	779	25900	935	65400	32800	950	84100
21	3570	75	723	17700	530	25300	23900	900	58100
22	3440	74	687	14700	520	20600	20400	850	46800
23	3320	70	627	10600	485	13900	17500	710	33500
24	3210	65	563	9730	390	10200	18300	840	41500
25	3260	62	546	9620	345	8960	42800	1670	195000
26	3350	57	516	9690	330	8630	36600	1020	101000
27	3120	56	472	10100	340	9270	27600	690	51400
28	2870	57	442	12900	390	13600	21600	630	36700
29	2710	57	417	---	---	---	16000	590	25500
30	2540	56	384	---	---	---	16600	600	26900
31	2550	114	793	---	---	---	17700	639	30500
MONTH	160530	---	140015	372470	---	788573	623810	---	1598320

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	16400	605	26800	8380	140	3170	8230	190	4220
2	14200	585	22400	8570	150	3470	7730	170	3550
3	12400	550	18400	9110	280	6890	7140	142	2740
4	11200	525	15900	9080	270	6620	6630	140	2510
5	10200	510	14000	8170	235	5180	6920	157	2930
6	9420	490	12500	7560	210	4290	6740	140	2550
7	8820	470	11200	7480	185	3740	6130	130	2150
8	8460	450	10300	7870	180	3820	5800	120	1880
9	8010	440	9520	8780	210	4980	5550	101	1510
10	7770	420	8810	9430	235	5980	5400	100	1460
11	7840	405	8570	9620	220	5710	5300	92	1320
12	8000	390	8420	9260	195	4880	5120	100	1380
13	8480	390	8930	9720	245	6430	5070	100	1370
14	9070	430	10500	11100	315	9440	4970	100	1340
15	8830	430	10300	11400	355	10900	4710	95	1210
16	8100	420	9190	9860	300	7990	4450	95	1140
17	7520	410	8320	9500	265	6800	4150	95	1060
18	7080	410	7840	9860	262	6970	3900	90	948
19	7020	390	7390	10300	290	8060	3600	90	875
20	7340	365	7230	9100	225	5530	3450	90	838
21	7540	340	6920	8340	175	3940	3500	90	850
22	7650	320	6610	7920	172	3680	3400	85	780
23	7790	315	6630	7940	170	3640	3250	85	746
24	9480	400	10200	8260	180	4010	3000	85	688
25	14000	540	20400	8040	170	3690	2850	85	654
26	10300	410	11400	7620	160	3290	2700	80	583
27	9120	335	8250	7720	170	3540	2600	80	562
28	8630	270	6290	7770	160	3360	2450	80	529
29	8330	215	4840	7780	150	3150	2350	75	476
30	8260	170	3790	8060	180	3920	2200	75	445
31	---	---	---	8290	200	4480	---	---	---
MONTH	277260	---	321850	271890	---	161550	139290	---	43294

## KLAMATH RIVER BASIN

11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

SUSPENDED-SEDIMENT DISCHARGE (TONS/DAY), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN- TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2150	75	435	938	17	43	681	5	9.2
2	2050	70	387	891	18	43	671	3	5.4
3	1950	70	369	864	18	42	657	5	8.9
4	1900	65	333	844	19	43	665	6	11
5	1950	65	342	840	19	43	673	5	9.1
6	1850	60	300	821	23	51	656	3	5.3
7	1700	50	229	808	15	33	643	5	8.7
8	1750	40	189	790	12	26	640	9	16
9	1750	33	156	779	10	21	640	8	14
10	1800	33	160	767	8	17	629	8	14
11	1850	32	160	751	10	20	628	8	14
12	1850	32	160	755	13	27	628	8	14
13	1750	32	151	737	10	20	629	5	8.5
14	1650	32	143	726	8	16	625	4	6.8
15	1600	32	138	716	8	15	644	3	5.2
16	1600	32	138	707	8	15	676	5	9.1
17	1550	32	134	690	7	13	658	7	12
18	1380	32	119	731	7	14	645	8	14
19	1350	32	117	807	24	52	636	10	17
20	1400	34	129	802	9	19	641	8	14
21	1380	30	112	767	9	19	648	5	8.7
22	1300	26	91	738	9	18	644	7	12
23	1250	38	128	718	9	17	649	13	23
24	1200	42	136	716	9	17	643	7	12
25	1150	40	124	690	9	17	641	8	14
26	1120	35	106	676	9	16	622	7	12
27	1050	35	99	670	9	16	585	14	22
28	1030	30	83	692	9	17	582	12	19
29	1020	30	83	709	9	17	582	10	16
30	1010	36	98	709	9	17	582	10	16
31	968	25	65	693	8	15	---	---	---
MONTH	47308	---	5414	23542	---	759	19143	---	370.9
YEAR	2050849		3091236						

## KLAMATH RIVER BASIN

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, on left bank 600 ft (183 m) downstream from West Fork, 3.0 mi (4.8 km) upstream from mouth, and 9.2 mi (14.8 km) southeast of Klamath.

DRAINAGE AREA.--120 mi<sup>2</sup> (311 km<sup>2</sup>).

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

GAGE.--Water-stage recorder. Datum of gage is 140.65 ft (42.870 m) above mean sea level.

AVERAGE DISCHARGE.--10 years, 807 ft<sup>3</sup>/s (22.85 m<sup>3</sup>/s), 584,700 acre-ft/yr (721 hm<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 17,000 ft<sup>3</sup>/s (481 m<sup>3</sup>/s) Mar. 18 (gage height, 14.01 ft or 4.270 m, from outside high-water mark), from rating curve extended above 5,500 ft<sup>3</sup>/s (156 m<sup>3</sup>/s) as explained below; minimum daily, 48 ft<sup>3</sup>/s (1.36 m<sup>3</sup>/s) Oct. 18-26.

Period of record: Maximum discharge, 33,000 ft<sup>3</sup>/s (935 m<sup>3</sup>/s) Mar. 2, 1972 (gage height, 18.10 ft or 5.517 m), from rating curve extended above 1,000 ft<sup>3</sup>/s (28.3 m<sup>3</sup>/s) on basis of step-backwater computation at 21.55 ft (6.568 m); minimum daily, 43 ft<sup>3</sup>/s (1.22 m<sup>3</sup>/s) Nov. 1, 1965.

Flood of Dec. 22, 1964, reached a stage of 21.55 ft (6.568 m), from floodmarks (discharge, 48,000 ft<sup>3</sup>/s or 1,360 m<sup>3</sup>/s, by step-backwater computation).

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. No regulation or diversion above station.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	58	89	507	400	1600	1330	967	580	193	100	90
2	52	57	120	441	489	2100	1240	967	540	191	100	89
3	52	55	282	776	575	2250	1180	1560	500	186	99	83
4	52	53	521	1170	826	1400	1220	1310	470	181	97	79
5	52	53	311	5180	856	1170	1100	1130	460	175	97	78
6	52	53	265	3310	964	980	1030	1060	420	171	96	78
7	51	80	283	5460	1580	900	960	1020	395	166	94	78
8	51	92	218	4260	1700	1500	940	1030	370	160	94	77
9	51	80	175	2720	2900	1420	970	1070	345	157	94	77
10	51	114	151	2220	2720	1030	940	1140	330	155	93	77
11	51	83	640	1690	2500	920	920	1260	325	151	91	76
12	51	70	823	1310	4000	820	900	1210	310	149	91	76
13	49	64	749	1140	5700	730	920	1250	292	145	87	76
14	49	61	1730	982	3100	700	880	1280	280	142	86	76
15	49	60	1130	874	1750	750	820	1180	270	142	87	75
16	49	58	748	804	1350	790	770	1070	260	140	86	75
17	49	72	619	746	1100	3700	710	1040	250	140	88	74
18	48	280	432	692	980	13200	670	1030	242	135	97	73
19	48	156	388	649	5700	6000	660	1030	236	132	94	73
20	48	109	369	602	4200	3100	670	870	228	130	90	73
21	48	102	648	546	2200	2700	660	780	220	127	87	73
22	48	132	593	500	1500	2900	680	700	215	125	86	72
23	48	99	467	460	1200	2400	800	620	220	122	84	72
24	48	93	387	441	1000	4800	2300	640	250	120	88	71
25	48	232	342	521	920	9000	2200	610	240	115	87	69
26	48	173	447	526	860	5200	1500	590	226	115	83	69
27	52	152	2050	424	1400	2700	1200	560	216	112	83	68
28	143	141	1080	369	2220	2200	1040	580	210	109	125	68
29	96	115	808	334	---	1700	958	600	201	111	108	68
30	70	98	678	371	---	1580	941	620	198	108	99	67
31	63	---	574	423	---	1470	---	610	---	106	92	---
TOTAL	1719	3045	18117	40448	54690	81710	31109	29384	9299	4411	2883	2250
MFAN	55.5	102	584	1305	1953	2636	1037	948	310	142	93.0	75.0
MAX	143	280	2050	5460	5700	13200	2300	1560	580	193	125	90
MIN	48	53	89	334	400	700	660	560	198	106	83	67
AC-FT	3410	6040	35940	80230	108500	162100	61700	58280	18440	8750	5720	4460
CAL YR 1974	TOTAL	256541	MEAN 703	MAX 7970	MIN 48	AC-FT 508800						
WTR YR 1975	TOTAL	279065	MEAN 765	MAX 13200	MIN 48	AC-FT 553500						

Date	Time	Peak discharge (base, 7,000 ft <sup>3</sup> /s)					
1-7	1600	G.H. Discharge	Date	Time	G.H. Discharge		
2-13	unknown	-- 7,400	3-25	unknown	-- 12,000		
2-19	unknown	-- 9,000					

NOTE.--No gage-height record Feb. 7 to Apr. 28, May 20 to July 1.

KLAMATH RIVER BASIN  
11530000 TRINITY RIVER AT HOOPA, CALIF.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

				INSTAN- TANEOUS DIS- CHARGE	SUS- PENDE SEDIM- ENT	SUS- PENDE SEDIM- ENT CHARGE	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM
DATE	TIME	TEMPER- ATURE (DEG C)	(CFS)	(MG/L)	(T/DAY)				
DEC.									
03...	1610	9.0	2270	157	963	--	--	--	--
04...	1610	8.0	5960	443	7130	20	28	42	--
13...	1525	8.5	3120	86	725	--	--	--	--
14...	2300	9.0	5050	381	5200	--	--	--	--
15...	1200	10.0	4380	283	3350	--	--	--	--
27...	1600	5.0	3190	182	1570	--	--	--	--
JAN.									
04...	1100	4.0	2400	50	324	--	--	--	--
05...	1730	5.0	5050	497	6780	--	--	--	--
06...	1110	7.0	15100	857	34900	18	25	34	--
07...	1110	6.0	9640	406	10600	--	--	--	--
08...	1305	7.0	20400	951	52400	15	20	28	--
09...	1110	6.0	11600	449	14100	--	--	--	--
10...	1110	5.0	10300	315	8760	--	--	--	--
11...	1000	6.0	8270	265	5920	--	--	--	--
12...	1130	6.0	6420	225	3900	--	--	--	--
FEB.									
09...	1630	6.0	21200	1190	68200	11	18	26	--
10...	1610	7.0	17100	532	24600	--	--	--	--
11...	1110	--	12600	366	12500	--	--	--	--
12...	1900	7.0	39600	2480	265000	11	18	28	--
13...	1100	7.0	50800	1690	232000	--	--	--	--
18...	1610	7.0	8580	283	6560	--	--	--	--
19...	1610	7.0	21100	1420	81000	--	--	--	--
20...	1530	6.5	24200	902	58900	13	17	25	--
21...	1610	--	16700	518	23400	--	--	--	--
27...	1110	8.0	9920	328	8790	--	--	--	--
28...	1610	--	13700	397	14700	--	--	--	--
MAR.									
02...	1535	8.0	19900	641	34400	--	--	--	--
07...	1620	9.0	11500	347	10800	--	--	--	--
08...	1130	8.0	26600	1130	81200	19	24	35	--
09...	1205	--	21200	670	38400	--	--	--	--
18...	1605	7.0	54300	3120	458000	13	22	33	--
19...	1845	7.0	47400	1280	164000	16	23	34	--
21...	1545	6.0	24000	987	64000	14	20	29	--
23...	1605	7.0	16500	679	30300	--	--	--	--
24...	1205	7.0	18000	828	40200	--	--	--	--
25...	1805	7.0	47300	1490	190000	15	21	30	--
		SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM	SUS. SED. FALL DIAM. % FINER THAN 2.00 MM
DEC.									
03...	--	--	82	89	96	100	--	--	--
04...	55	68	75	84	94	99	100	--	--
13...	--	--	60	66	80	92	100	--	--
14...	--	--	61	62	76	90	100	--	--
15...	--	--	35	40	56	88	100	--	--
27...	--	--	59	64	70	80	96	100	--
JAN.									
04...	--	--	52	53	56	62	86	100	--
05...	--	--	64	73	81	88	97	100	--
06...	43	54	63	75	89	97	100	--	--
07...	--	--	58	69	86	98	100	--	--
08...	36	45	55	68	84	95	99	100	--
09...	--	--	45	53	72	89	100	--	--
10...	--	--	60	68	84	98	100	--	--
11...	--	--	43	50	65	92	100	--	--
12...	--	--	35	38	47	83	100	--	--
FEB.									
09...	36	47	56	70	88	97	100	--	--
10...	--	--	56	66	84	97	100	--	--
11...	--	--	52	61	77	92	98	100	--
12...	38	53	65	80	94	99	100	--	--
13...	--	--	67	80	93	99	100	--	--
18...	--	--	44	52	74	94	100	--	--
19...	--	--	62	74	88	98	100	--	--
20...	34	41	48	57	72	93	98	100	--
21...	--	--	45	53	69	90	100	--	--
27...	--	--	31	36	48	77	100	--	--
28...	--	--	46	56	73	92	100	--	--
MAR.									
02...	--	--	55	66	80	93	100	--	--
07...	--	--	40	45	57	83	100	--	--
08...	48	61	70	80	92	99	100	--	--
09...	--	--	65	74	86	96	98	100	--
18...	44	57	67	80	94	99	100	--	--
19...	46	57	68	81	94	99	100	--	--
21...	37	45	53	63	80	94	99	100	--
23...	--	--	39	46	62	87	98	100	--
24...	--	--	39	45	60	82	95	95	--
25...	39	49	58	70	86	97	100	--	--

## KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.  
(National stream-quality accounting network station)

LOCATION.--Lat 41°30'45", long 123°58'30", in SW¼ sec.17, T.13 N., R.2 E., Del Norte County, on right bank 2.8 mi (4.5 km) upstream from Turwar Creek, and 3.3 mi (5.3 km) east of Klamath.

DRAINAGE AREA.--12,100 mi<sup>2</sup> (31,340 km<sup>2</sup>), approximately (not including Lost River or Lower Klamath Lake basins).

PERIOD OF RECORD.--October 1910 to December 1926 (published as "near Requa"), October 1950 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder. Datum of gage is 5.60 ft (1.707 m) above mean sea level (levels by Corps of Engineers). Prior to June 1926, nonrecording gage at same site at different datum.

AVERAGE DISCHARGE.--41 years, 17,830 ft<sup>3</sup>/s (504.9 m<sup>3</sup>/s), 12,920,000 acre-ft/yr (15.9 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 198,000 ft<sup>3</sup>/s (5,610 m<sup>3</sup>/s) Mar. 19 (gage height, 26.30 ft or 8.016 m), from rating curve extended above 220,000 ft<sup>3</sup>/s (6,230 m<sup>3</sup>/s); minimum daily, 2,750 ft<sup>3</sup>/s (77.9 m<sup>3</sup>/s) Oct. 7.

Period of record: Maximum discharge, 557,000 ft<sup>3</sup>/s (15,800 m<sup>3</sup>/s) Dec. 23, 1964 (gage height, 55.3 ft or 16.86 m, from floodmarks), from rating curve extended above 230,000 ft<sup>3</sup>/s (6,510 m<sup>3</sup>/s) on basis of flood-routing study; minimum observed, 1,340 ft<sup>3</sup>/s (37.9 m<sup>3</sup>/s) July 31, Aug. 1, 1924.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor. Flow considerably regulated by reservoirs and powerplants above station. Large diversions for irrigation above station.

REVISIONS (WATER YEARS).--WSP 1285: 1951(P). WSP 1445: 1918-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2850	3870	5240	9340	10700	47100	41000	34500	39800	8650	3700	3340
2	2850	3840	5420	8750	12000	55700	41000	35800	38900	8420	3650	3340
3	2850	3800	7800	8360	12000	57800	37000	39800	36800	8200	3580	3310
4	2850	3750	13400	12500	13700	48200	32000	41500	32800	7950	3580	3200
5	2850	3750	11600	22000	14300	40700	30000	37600	33200	7800	3550	3280
6	2850	3750	8530	44500	14700	36100	29000	34500	32800	7790	3510	3500
7	2750	3990	7630	31000	15000	33500	27000	32900	30900	7400	3500	4200
8	2880	5210	7100	29000	18100	47100	26000	33400	28100	7350	3490	3900
9	3040	5390	6580	30500	29400	52700	25800	36400	25700	7200	3490	3390
10	3120	5210	6210	29500	41000	42900	24000	40400	24600	7150	3450	3400
11	3240	5120	7870	24900	35000	36400	24000	42800	24100	7100	3380	3400
12	3330	4950	10400	22000	52000	31200	24900	42200	23300	7100	3350	3400
13	3330	5070	12700	22000	108000	27600	26000	42800	22900	7100	3300	3420
14	3310	5070	16200	18700	78000	24800	27200	47500	22500	7000	3300	3450
15	3310	4920	20500	16700	52000	23800	27000	51100	21000	6850	3280	3400
16	3310	4810	14900	15300	39000	25900	26000	47600	20800	6700	3250	3590
17	3310	4810	12300	14400	28000	27900	25000	44600	20000	6600	3200	3500
18	3330	5750	10400	13600	27000	100000	23000	44300	18000	6550	3300	3420
19	3330	6330	9190	13400	32000	170000	23500	45500	16000	6500	3450	3440
20	3360	5650	8640	13200	49000	106000	24900	42300	14200	6500	3380	3490
21	3330	5420	9230	13000	50000	70000	28000	37100	13200	6400	3390	3420
22	3330	5840	10700	12500	49000	56000	32000	34100	13000	6050	3390	3490
23	3380	5900	9720	12000	38300	52000	31700	32700	11600	5550	3350	3800
24	3400	5560	8820	11600	33100	52000	36300	34800	17000	4900	3320	3900
25	3400	6270	8220	12100	30500	90000	48200	34600	11600	4360	3280	4100
26	3400	6430	7840	13500	29500	86000	43100	34600	10900	4250	3250	4000
27	3400	5900	14700	13100	30500	70000	38100	34600	10400	4040	3300	3610
28	3920	5720	21400	11800	43700	50000	35000	34400	10000	3940	3500	3620
29	4410	5500	14400	10900	---	43000	33300	34100	9600	3880	3480	3640
30	4260	5360	11800	10300	---	43000	33000	36700	8830	3840	3480	3640
31	3920	---	10700	10900	---	45000	---	39300	---	3790	3410	---
TOTAL	102200	152940	330140	531350	985500	1692400	923000	1204500	642530	196910	105840	106590
MEAN	3297	5098	10650	17140	35200	54590	30770	38850	21420	6352	3414	3553
MAX	4410	6430	21400	44500	108000	170000	48200	51100	39800	8650	3700	4200
MIN	2750	3750	5240	8360	10700	23800	23000	32700	8830	3790	3200	3200
AC-FT	202700	303400	654800	1054000	1955000	3357000	1831000	2389000	1274000	390600	209900	211400
CAL YR 1974	TOTAL	9408690	MEAN	25780	MAX	397000	MIN	2750	AC-FT	18660000		
WTR YR 1975	TOTAL	6973900	MEAN	19110	MAX	170000	MIN	2750	AC-FT	13830000		

Peak discharge (base, 90,000 ft<sup>3</sup>/s)  
Date Time G.H. Discharge Date Time G.H. Discharge  
2-13 unknown -- 120,000 3-25 unknown -- 99,000  
3-19 0530 26.30 198,000

NOTE.--No gage-height record  
Mar. 20 to May 22, July 5 to  
Aug. 28.

11530300 BLUE CREEK NEAR KLAMATH, CALIF.--Continued

PERIOD OF RECORD.--Water temperatures: October 1965 to current year.

EXTREMES.--Current year:

Water temperatures: Minimum, 5.0°C Apr. 7.

Period of record:

Water temperatures: Maximum (1965-74), 27.0°C July 23, 1970; minimum, 3.5°C Dec. 11, 12, 1972.

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

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	16.0	-- 15.0	-- --	--	10.0	-- 9.0	8.5 -- 7.0	10.0	-- 8.0	8.0	-- 6.5	--
2	16.0	-- 14.5	-- --	--	10.5	-- 9.5	8.5 -- 7.5	9.0	-- 8.0	7.0	-- 6.0	--
3	16.0	-- 15.0	-- --	--	9.5	-- 9.5	9.0 -- 7.5	10.0	-- 8.5	6.5	-- 6.0	--
4	15.5	-- 14.5	-- --	--	9.5	-- 9.0	9.0 -- 8.0	10.0	-- 9.0	6.5	-- 5.5	--
5	15.5	-- 14.0	-- --	--	9.5	-- 8.5	10.0 -- 7.5	9.0	-- 8.5	7.5	-- 6.5	--
6	--	--	-- --	--	10.0	-- 9.5	9.5 -- 8.0	9.0	-- 8.5	8.5	-- 7.5	--
7	--	--	-- --	--	10.0	-- 9.5	10.0 -- 8.0	9.5	-- 9.0	8.5	-- 7.5	--
8	--	--	-- --	--	10.0	-- 9.0	10.5 -- 8.0	9.0	-- 8.0	9.5	-- 8.5	--
9	--	--	-- --	--	10.5	-- 10.0	10.5 -- 8.0	9.5	-- 8.0	9.5	-- 9.0	--
10	--	--	-- --	--	10.0	-- 9.0	10.5 -- 8.5	9.5	-- 8.0	10.0	-- 9.0	--
11	--	--	-- --	--	10.0	-- 10.0	9.5 -- 8.5	9.5	-- 9.0	10.5	-- 8.5	--
12	--	--	-- --	--	10.5	-- 10.0	9.0 -- 7.0	9.5	-- 7.0	9.5	-- 7.5	--
13	--	--	-- --	--	10.0	-- 9.0	8.5 -- 8.0	9.5	-- 7.0	9.5	-- 8.0	--
14	--	--	-- --	--	10.0	-- 9.5	8.5 -- 7.5	9.5	-- 7.0	9.5	-- 8.5	--
15	--	--	-- --	--	10.0	-- 10.0	8.5 -- 7.5	8.0	-- 7.5	9.5	-- 8.5	--
16	--	--	-- --	--	10.0	-- 9.0	8.5 -- 8.0	8.5	-- 7.5	9.5	-- 8.5	--
17	--	--	-- --	--	9.5	-- 9.0	8.5 -- 8.0	8.5	-- 7.0	9.0	-- 8.0	--
18	--	--	-- --	--	9.5	-- 8.5	9.0 -- 8.0	8.5	-- 8.5	8.5	-- 8.0	--
19	--	--	-- --	--	11.0	-- 9.0	9.0 -- 8.5	8.5	-- 8.0	8.5	-- 8.5	--
20	--	--	-- --	--	10.5	-- 10.0	9.0 -- 8.5	9.5	-- 7.5	8.5	-- 7.5	--
21	--	--	-- --	--	10.0	-- 8.5	9.0 -- 8.0	8.5	-- 7.5	8.5	-- 7.5	--
22	--	--	-- --	--	8.5	-- 7.0	9.5 -- 8.5	9.0	-- 7.5	7.5	-- 7.0	--
23	--	--	-- --	--	9.0	-- 8.0	9.5 -- 8.5	9.5	-- 8.0	8.5	-- 7.5	--
24	--	--	-- --	--	8.5	-- 7.5	10.0 -- 9.5	10.0	-- 9.0	9.0	-- 8.5	--
25	--	--	-- --	--	10.5	-- 9.0	10.0 -- 10.0	10.0	-- 9.0	9.0	-- 8.0	--
26	--	--	-- --	--	10.5	-- 9.5	9.0 -- 7.0	10.0	-- 8.5	8.5	-- 7.5	--
27	--	--	-- --	--	11.0	-- 10.5	10.0 -- 8.0	9.0	-- 7.5	8.5	-- 7.5	--
28	--	--	-- --	--	10.5	-- 9.0	10.0 -- 8.0	9.5	-- 7.0	8.5	-- 7.5	--
29	--	--	-- --	--	9.5	-- 9.0	10.0 -- 7.0	9.0	-- 8.5	9.5	-- 8.0	--
30	--	--	-- --	--	9.5	-- 8.5	9.0 -- 8.0	9.0	-- 8.0	9.5	-- 8.5	--
31	--	--	-- --	--	8.5	-- 7.5	9.0 -- 7.5	9.0	-- 7.5	8.5	-- 7.5	--
MONTH	--	--	-- --	--	10.5	-- 7.0	10.5 -- 7.0	10.0	-- 7.0	10.5	-- 5.5	--
DAY	APR		MAY		JUN		JUL		AUG		SEP	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	8.5	-- 7.5	10.5	-- 8.5	13.0	-- 11.0	14.0	-- 13.5	--	--	--	--
2	8.0	-- 7.5	10.5	-- 8.5	12.0	-- 11.0	14.5	-- 12.0	--	--	--	--
3	7.5	-- 6.5	9.5	-- 8.0	13.0	-- 11.0	15.5	-- 13.0	--	--	--	--
4	8.0	-- 7.5	9.0	-- 7.0	13.5	-- 11.0	15.5	-- 13.5	--	--	20.0	--
5	7.5	-- 6.5	9.5	-- 8.0	13.5	-- 11.5	16.0	-- 13.5	--	--	--	--
6	7.5	-- 6.5	10.5	-- 8.0	14.0	-- 12.0	16.5	-- 13.5	--	--	--	--
7	6.5	-- 5.0	11.0	-- 9.0	14.0	-- 12.0	17.0	-- 15.0	--	--	--	--
8	7.5	-- 6.5	11.5	-- 9.0	13.5	-- 11.0	17.0	-- 15.0	--	--	--	--
9	9.5	-- 7.5	11.5	-- 9.0	13.5	-- 11.0	17.0	-- 15.0	--	--	--	--
10	9.0	-- 8.0	11.0	-- 9.0	14.0	-- 12.0	17.0	-- 15.0	--	--	18.5	--
11	9.5	-- 8.0	11.5	-- 9.0	14.0	-- 12.0	16.5	-- 15.0	--	--	--	--
12	8.5	-- 8.5	11.5	-- 8.5	14.0	-- 12.0	17.0	-- 15.5	--	--	--	--
13	9.5	-- 8.5	12.0	-- 8.5	13.0	-- 12.0	17.0	-- 15.0	--	--	--	--
14	9.5	-- 7.5	12.0	-- 10.0	13.0	-- 12.0	17.0	-- 16.0	--	--	--	--
15	8.5	-- 7.5	11.0	-- 9.0	13.0	-- 12.0	-- 16.5	--	--	--	--	--
16	9.5	-- 6.5	11.5	-- 9.0	14.0	-- 13.0	--	--	--	--	--	--
17	9.5	-- 8.0	12.0	-- 9.0	14.0	-- 12.5	--	--	--	--	--	--
18	10.0	-- 8.5	12.0	-- 9.0	13.5	-- 13.0	--	--	--	--	--	--
19	10.5	-- 9.0	12.0	-- 10.0	14.0	-- 13.0	--	--	--	--	--	--
20	11.0	-- 8.5	11.5	-- 9.0	14.0	-- 13.0	--	--	--	--	--	--
21	11.0	-- 8.5	11.0	-- 9.0	14.5	-- 13.0	--	--	--	--	--	--
22	10.5	-- 9.0	11.0	-- 9.0	15.0	-- 13.5	--	--	--	--	--	--
23	9.5	-- 8.5	11.5	-- 10.0	14.5	-- 13.5	--	--	--	--	--	--
24	9.5	-- 8.5	12.0	-- 10.0	14.0	-- 13.0	--	--	--	--	16.0	--
25	8.5	-- 7.5	12.0	-- 9.0	15.0	-- 12.5	--	--	--	--	17.0	-- 15.5
26	9.5	-- 7.5	12.0	-- 10.0	15.0	-- 13.0	--	--	--	--	17.0	-- 15.5
27	10.5	-- 8.5	12.0	-- 10.0	15.0	-- 13.0	--	--	--	--	16.5	-- 16.0
28	10.5	-- 8.0	12.0	-- 10.0	15.0	-- 12.5	--	--	--	--	16.5	-- 15.5
29	10.5	-- 8.5	13.0	-- 10.0	15.0	-- 13.0	--	--	--	--	16.5	-- 15.5
30	11.0	-- 8.5	13.0	-- 10.0	15.0	-- 13.0	--	--	--	--	16.5	-- 15.5
31	--	--	13.0	-- 11.0	--	--	--	--	--	--	--	--
MONTH	11.0	-- 5.0	13.0	-- 7.0	15.0	-- 11.0	--	--	--	--	--	--



## 11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1951-53 (partial-record station), October 1953 to current year.  
 Specific conductance: October 1974 to September 1975.  
 Water temperatures: November 1965 to current year.  
 Sediment records: Water years 1955-56, 1975 (partial-record station).

## EXTREMES.--Current year:

Water temperatures: Maximum, 24.0°C July 26; minimum, 3.5°C Jan. 31 to Feb. 2.

## Period of record:

Water temperatures: Maximum (1966-68, 1970-71, 1972 to current year), 25.5°C on several days in 1968;  
 minimum (1965-70, 1971-72, 1974 to current year), 2.5°C Feb. 2, 1972.

REMARKS.--The letter "A" following a date indicates chemical-quality data furnished by California Department of Water Resources.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	DIS- CHARGE (CFS)	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	SUS- PENDED MAN- GANESE (MN) (UG/L)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)
OCT.											
02...A	0830	2850	2850	--	--	--	--	--	--	--	--
08...	1200	2880	E3800	--	--	--	--	--	--	--	--
23...	1400	3380	3410	24	220	--	30	--	--	20	9.2
NOV.											
13...A	1000	5070	5120	--	--	--	--	--	--	--	--
27...	1500	5900	5870	--	--	--	--	--	--	--	--
DEC.											
02...A	1530	5420	5440	--	--	--	--	--	--	--	--
10...	1500	6210	6200	--	--	--	--	--	--	--	--
31...	1430	10700	10300	17	2200	90	30	20	10	19	6.9
JAN.											
07...A	0940	31000	29900	--	--	--	--	--	--	--	--
31...	1315	10900	9800	--	--	--	--	--	--	--	--
FEB.											
18...A	1655	27000	--	--	--	--	--	--	--	--	--
MAR.											
10...	1415	42900	43900	15	6900	40	120	120	0	15	6.3
10...A	1505	42900	42200	--	--	--	--	--	--	--	--
14...	1025	24800	31000	--	--	--	--	--	--	--	--
APR.											
17...	1215	25000	>33000	--	--	--	--	--	--	--	--
22...	1440	32000	30200	--	--	--	--	--	--	--	--
MAY											
28...	1200	34400	>31800	--	--	--	--	--	--	--	--
JUNE											
30...	1420	8830	8830	--	--	--	--	--	--	--	--
JULY											
25...	1500	4360	4420	14	790	10	30	30	0	17	6.4
AUG.											
27...	1330	3300	--	--	--	--	--	--	--	--	--
SEP.											
29...	1745	3640	3640	20	110	80	30	10	20	19	8.5

DATE	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 CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)
OCT.										
02...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
23...	12	1.5	114	--	94	11	4.9	.1	.00	.45
NOV.										
13...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
DEC.										
02...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	.48	.79
31...	5.0	1.0	75	--	62	8.8	6.9	.0	.38	.52
JAN.										
07...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	.39	.28
FEB.										
18...	--	--	--	--	--	--	--	--	--	--
MAR.										
10...	3.9	1.0	72	0	59	5.7	1.8	.1	.14	.30
10...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
APR.										
17...	--	--	--	--	--	--	--	--	.00	.37
22...	--	--	--	--	--	--	--	--	.02	.19
MAY										
28...	--	--	--	--	--	--	--	--	.02	.22
JUNE										
30...	--	--	--	--	--	--	--	--	.08	.27
JULY										
25...	5.4	.9	89	0	73	7.6	2.7	.1	.01	.21
AUG.										
27...	--	--	--	--	--	--	--	--	.02	.50
SEP.										
29...	12	1.9	109	0	89	11	4.5	.1	.11	.83

## KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO
OCT.										
02...	--	--	--	--	--	--	--	--	--	--
08...	.45	.12	--	--	--	--	--	--	--	--
23...	--	--	137	139	.19	1250	88	0	23	.6
NOV.										
13...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
DEC.										
02...	--	--	--	--	--	--	--	--	--	--
10...	1.3	.12	--	--	--	--	--	--	--	--
31...	.90	.09	91	102	.12	2630	76	14	12	.3
JAN.										
07...	--	--	--	--	--	--	--	--	--	--
31...	.67	.08	--	--	--	--	--	--	--	--
FEB.										
18...	--	--	--	--	--	--	--	--	--	--
MAR.										
10...	.44	--	83	84	.11	9610	63	4	12	.2
10...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
APR.										
17...	.37	.11	--	--	--	--	--	--	--	--
22...	.21	.06	--	--	--	--	--	--	--	--
MAY										
28...	.24	.09	--	--	--	--	--	--	--	--
JUNE										
30...	.35	.05	--	--	--	--	--	--	--	--
JULY										
25...	.22	.02	94	98	.13	1110	69	0	14	.3
AUG.										
27...	.52	.05	--	--	--	--	--	--	--	--
SEP.										
29...	.94	.10	131	131	.18	1290	82	0	24	.6

DATE	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	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.										
02...	224	8.1	16.0	1	8.7	88	--	--	--	--
08...	220	--	15.5	--	--	--	--	--	--	4.2
23...	219	8.1	14.0	5	--	--	1.4	B9	B3	--
NOV.										
13...	212	7.6	10.5	4	10.1	91	--	--	--	--
27...	200	--	10.0	--	--	--	--	B3	B9	--
DEC.										
02...	208	8.1	8.0	6	10.7	90	--	--	--	--
10...	202	7.9	9.0	--	--	--	--	--	--	--
31...	155	7.9	5.0	8	--	--	1.5	B3	B7	--
JAN.										
07...	119	7.5	8.0	65	.1	97	--	--	--	--
31...	153	7.9	4.0	--	--	--	--	--	--	--
FEB.										
18...	168	7.4	8.5	25	10.0	85	--	--	--	--
MAR.										
10...	134	7.5	8.0	70	--	--	3.6	20	B14	2.9
10...	140	7.5	9.0	75	11.2	97	--	--	--	--
14...	134	8.1	8.0	--	--	--	--	--	--	--
APR.										
17...	140	--	10.0	--	--	--	--	B1	B4	--
22...	155	8.3	10.0	--	--	--	--	--	--	--
MAY										
28...	110	7.1	14.0	--	--	--	--	B4	B10	--
JUNE										
30...	130	7.4	17.0	--	--	--	--	B2	B1	--
JULY										
25...	161	7.8	23.0	5	--	--	2.3	B1	B5	2.8
AUG.										
27...	179	8.0	20.0	--	--	--	--	B1	B13	--
SEP.										
29...	170	8.1	19.0	1	--	--	1.4	B3	B8	4.9

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

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		PHYTOPLANKTON			
DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
		.CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES			
OCT 8	1200	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...OOCYSTACEAE			
		....ANKISTRODESMUS		48	3
		....SCENEDESMACEAE			
		....SCENEDESMUS		240	15
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		....CYCLOTELLA		64	4
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....COCCONEIS		80	5
		...CYMBELLACEAE			
		....CYMBELLA		16	1
		....EPITHEMIA		190	12
		...DIATOMACEAE			
		....DIATOMA		160	10
		...FRAGILARIACEAE			
		....FRAGILARIA		160	10
		....SYNEDRA		220	14
		...GOMPHONEMACEAE			
		....GOMPHONEMA		140	9
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		210	13
		...NITZSCHIACEAE			
		....NITZSCHIA		64	4
		TOTAL PHYTOPLANKTON		1600	
DEC 10	1500	CHLOROPHYTA	GREEN ALGAE		
		.CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...SCENEDESMACEAE			
		....SCENEDESMUS		47	9
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		.BACILLARIOPHYCEAE			
		..CENTRALES			
		...COSCINODISCACEAE			
		....CYCLOTELLA		5	1
		..PENNALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		78	15
		....COCCONEIS		21	4
		...CYMBELLACEAE			
		....EPITHEMIA		62	12
		...FRAGILARIACEAE			
		....SYNEDRA		150	28
		...GOMPHONEMACEAE			
		....GOMPHONEMA		47	9
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		36	7
		...NITZSCHIACEAE			
		....NITZSCHIA		68	13
		TOTAL PHYTOPLANKTON		520	

## KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		PHYTOPLANKTON				
DATE	TIME	PHYLUM	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL	
		.CLASS ..ORDER ...FAMILY ....GENUS .....SPECIES				
DEC 31	1430	CHRYSTOPHYTA	YELLOW-GREEN ALGAE			
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		....CYCLOTELLA		29	3	
		.....MELOSIRA		10	1	
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....ACHNANTHES		29	3	
		....COCCONEIS		38	4	
		...CYMBELLACEAE				
		....AMPHORA		19	2	
		...FRAGILARIACEAE				
		....SYNEDRA		29	3	
		...GOMPHONEMACEAE				
		....GOMPHONEMA		58	6	
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA		29	3	
		....STAURONEIS		10	1	
		...NITZSCHIA				
		....NITZSCHIA		77	8	
		CYANOPHYTA	BLUE-GREEN ALGAE			
		.MYXOPHYCEAE				
		..HORMOGONALES				
		...OSCILLATORIACEAE				
		....LYNGBYA		620	65	
		EUGLENOPHYTA				
		.EUGLENOPHYCEAE				
		..EUGLENALES				
		...EUGLENACEAE				
		....EUGLENA		10	1	
		TOTAL PHYTOPLANKTON		960		
JAN 31	1315	CHRYSTOPHYTA	YELLOW-GREEN ALGAE			
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		....CYCLOTELLA		44	9	
		.....MELOSIRA		150	30	
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....ACHNANTHES		64	13	
		....COCCONEIS		20	4	
		...DIATOMACEAE				
		....DIATOMA		20	4	
		...FRAGILARIACEAE				
		....SYNEDRA		20	4	
		...GOMPHONEMACEAE				
		....GOMPHONEMA		83	17	
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA		20	4	
		...NITZSCHIA				
		....NITZSCHIA		64	13	
		TOTAL PHYTOPLANKTON		490		
MAR 10	1415	CHRYSTOPHYTA	YELLOW-GREEN ALGAE			
		.BACILLARIOPHYCEAE	DIATOMS			
		..CENTRALES	CENTRIC			
		...COSCINODISCACEAE				
		....CYCLOTELLA		100	5	
		.....MELOSIRA		200	10	
		..PENNALES	PENNATE			
		...ACHNANTHACEAE				
		....ACHNANTHES		100	5	
		....COCCONEIS		100	5	
		...RHOILOCOSPHENIA		100	5	
		...CYMBELLACEAE				
		....CYMBELLA		100	5	
		...FRAGILARIACEAE				
		....FRAGILARIA		660	33	
		....HANNAEA		100	5	
		...GOMPHONEMACEAE				
		....GOMPHONEMA		200	10	
		...NAVICULACEAE	NAVICULOID			
		....NAVICULA		100	5	
		...NITZSCHIA				
		....NITZSCHIA		200	10	
		...TABELLARIACEAE				
		....TABELLARIA		100	5	
		TOTAL PHYTOPLANKTON		2000		

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

BIOLOGICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

		PHYTOPLANKTON			
DATE	TIME	PHYLUM ..CLASS ...ORDER ....FAMILY .....GENUS .....SPECIES	COMMON NAME	COUNT (CELLS/ML)	PERCENT OF TOTAL
APR 17	1215	CHLOROPHYTA	GREEN ALGAE		
		..CHLOROPHYCEAE			
		..CHLOROCOCCALES			
		...OOCYSTACEAE		64	2
		....KIRCHNERIELLA			
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		..BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCIDINODISCACEAE			
		....CYCLOTELLA		2900	92
		..PENNIALES	PENNATE		
		...ACHNANTHACEAE			
		....ACHNANTHES		64	2
		...GOMPHONEMACEAE			
		....GOMPHONEMA		64	2
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		64	2
		...NITZSCHIA			
		....NITZSCHIA		64	2
		TOTAL PHYTOPLANKTON		3200	
APR 22	1440	CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		..BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCIDINODISCACEAE		2200	89
		....CYCLOTELLA			
		..PENNIALES	PENNATE		
		...FRAGILARIACEAE			
		....FRAGILARIA		280	11
		TOTAL PHYTOPLANKTON		2500	
MAY 28	1200	CHLOROPHYTA	GREEN ALGAE		
		..CHLOROPHYCEAE			
		..ULOTRICHIALES			
		...ULOTRICHACEAE			
		....ULOTRICH		670	48
		..VOLVOCALES			
		...VOLVOCAEAE			
		....PANDORINA		530	38
		CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		..BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCIDINODISCACEAE			
		....CYCLOTELLA		28	2
		..PENNIALES	PENNATE		
		...CYMBELLACEAE			
		....CYMBELLA		14	1
		...DIATOMACEAE			
		....DIATOMA		14	1
		...GOMPHONEMACEAE			
		....GOMPHONEMA		28	2
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		56	4
		...NITZSCHIA			
		....NITZSCHIA		14	1
		....NITZSCHIA		28	2
		TOTAL PHYTOPLANKTON		1400	
JUN 30	1420	CHRYSOPHYTA	YELLOW-GREEN ALGAE		
		..BACILLARIOPHYCEAE	DIATOMS		
		..CENTRALES	CENTRIC		
		...COSCIDINODISCACEAE			
		....CYCLOTELLA		42	3
		..PENNIALES	PENNATE		
		...CYMBELLACEAE			
		....CYMBELLA		42	3
		...EPITHEMIA		42	3
		...DIATOMACEAE			
		....DIATOMA		84	6
		...FRAGILARIACEAE			
		....FRAGILARIA		42	3
		...HANNAEA		130	9
		...SYNEDRA			
		...GOMPHONEMACEAE			
		....GOMPHONEMA		310	22
		...NAVICULACEAE	NAVICULOID		
		....NAVICULA		42	3
		...GYROSIGMA		480	34
		...NITZSCHIA			
		....NITZSCHIA		180	13
		TOTAL PHYTOPLANKTON		1400	



11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDE D ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDE D CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	SUS- PENDE D CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)
OCT. 23...	1400	2	0	2	<10	--	--	0	0	0
DEC. 31...	1430	1	0	1	<10	<10	0	0	0	0
MAR. 10...	1415	4	1	3	<10	<10	0	20	20	0
JULY 25...	1500	1	1	0	10	9	1	0	0	0
SEP. 29...	1745	3	0	4	<10	<9	1	220	210	10

DATE	TOTAL COBALT (CO) (UG/L)	SUS- PENDE D COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	SUS- PENDE D COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	SUS- PENDE D LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)
OCT. 23...	<50	--	--	<10	--	--	<100	--	--
DEC. 31...	0	0	2	70	63	7	100	97	3
MAR. 10...	<50	<50	0	20	14	6	<100	<93	7
JULY 25...	<50	<50	0	<10	<9	1	<100	<100	0
SEP. 29...	<50	<50	0	10	8	2	<100	<93	7

DATE	TOTAL MERCURY (HG) (UG/L)	SUS- PENDE D MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL SELE- NIUM (SE) (UG/L)	SUS- PENDE D SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDE D ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 23...	.2	--	--	0	0	0	100	--	--
DEC. 31...	.0	.0	.2	1	1	0	50	40	6
MAR. 10...	.0	.0	.0	1	1	0	40	40	0
JULY 25...	.1	.1	.0	0	0	0	20	20	0
SEP. 29...	.0	.0	.0	0	0	0	50	0	50

## RADIOCHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL FILT- RABLE RESIDUE (MG/L)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	DIS- SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS- PENDE D GROSS ALPHA AS U-NAT. (UG/L)	DIS- SOLVED GROSS BETA AS CS-137 (PC/L)	SUS- PENDE D GROSS BETA AS CS-137 (PC/L)	DIS- SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS- PENDE D GROSS BETA AS SR90 /Y90 (PC/L)	DIS- SOLVED RA-226 (RADON METHOD) (PC/L)	DIS- SOLVED URANIUM (U) (UG/L)
APR. 17...	1215	>33000	95	90	<.7	5.5	1.5	2.1	1.2	1.7	.02	.10
AUG. 27...	1330	--	110	5	<.1	<.4	2.7	<.4	2.1	<.4	.01	.16

## KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
(ONCE-DAILY)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	215	---	137	149	122	146	110	70	133	125	154
2	---	---	208	134	---	---	146	105	70	---	---	---
3	---	215	182	136	136	121	145	100	70	106	112	154
4	---	---	166	133	149	149	146	---	70	---	---	---
5	---	210	---	122	134	122	146	100	65	92	166	139
6	---	---	182	110	149	134	146	105	60	124	---	---
7	---	210	---	138	149	136	161	105	80	95	124	---
8	---	---	195	111	134	---	157	105	80	---	---	---
9	216	197	195	120	124	134	157	105	80	110	179	125
10	---	---	186	---	124	136	157	98	88	---	---	---
11	216	210	169	120	112	134	155	99	75	131	135	---
12	---	---	169	137	112	133	145	92	---	---	---	123
13	216	203	169	137	124	146	145	88	80	112	---	---
14	216	---	121	137	124	133	145	85	80	---	---	122
15	216	---	133	137	124	149	143	85	82	75	121	---
16	---	---	145	138	133	146	149	90	82	---	---	161
17	218	207	145	138	149	99	154	80	---	47	164	---
18	---	---	157	134	149	115	161	85	---	---	---	---
19	---	197	169	138	124	145	155	---	---	33	115	137
20	---	---	171	---	---	---	149	85	95	---	---	---
21	216	202	159	138	---	121	149	92	---	44	---	125
22	---	---	153	138	---	136	122	144	95	---	---	---
23	---	203	157	138	---	133	133	85	---	33	132	154
24	216	---	157	138	---	145	133	85	110	---	---	---
25	---	201	169	138	---	136	109	130	85	100	119	152
26	216	201	169	138	---	146	133	134	85	120	---	---
27	---	---	136	138	---	136	134	130	88	100	120	---
28	203	---	136	138	---	122	---	136	80	---	---	---
29	---	198	149	---	---	---	134	108	80	---	121	---
30	203	211	161	138	---	---	145	110	70	110	---	---
31	---	---	---	121	---	---	145	---	---	---	---	---
MONTH	---	---	163	133	134	132	144	92	---	---	---	---

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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



11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

## TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.5	12.0	11.0	14.5	13.5	16.5	15.0	22.5	20.0	20.5	18.5
2	8.0	7.5	11.5	11.0	14.0	13.5	17.5	16.0	22.5	20.5	20.5	18.5
3	7.5	7.5	11.0	10.0	14.5	14.0	18.5	16.5	22.5	20.5	21.0	19.0
4	7.5	7.0	10.0	9.0	15.5	14.0	19.0	17.5	22.5	21.0	21.5	19.5
5	7.5	7.0	9.5	9.0	16.0	15.0	20.0	17.5	22.5	21.0	21.5	20.5
6	8.0	7.0	11.0	9.5	16.0	15.0	20.5	18.5	21.5	19.5	21.5	20.0
7	8.0	7.5	12.0	10.5	16.0	14.5	20.5	19.0	21.5	19.0	21.0	20.0
8	8.5	7.5	12.5	11.5	15.5	14.5	21.0	19.0	21.5	19.5	21.0	19.5
9	8.5	8.0	12.5	12.0	---	---	21.0	19.5	22.0	20.0	21.5	19.5
10	9.5	8.5	12.0	11.0	---	---	21.0	19.5	22.5	20.5	21.0	19.5
11	10.0	9.0	11.5	11.0	---	---	20.5	19.5	22.5	21.0	21.0	19.5
12	10.5	9.5	12.5	11.5	---	---	21.0	20.0	23.0	21.5	21.5	19.5
13	10.0	9.5	13.0	12.0	---	---	22.0	20.0	22.5	21.0	21.0	20.0
14	9.5	9.0	12.5	11.5	---	---	21.5	20.0	22.0	20.5	20.5	20.0
15	9.0	8.5	12.5	12.0	---	---	20.5	20.0	22.5	20.5	20.5	20.0
16	9.0	7.5	12.5	11.5	---	---	20.5	19.5	22.0	20.5	21.0	20.0
17	9.0	8.5	13.0	12.5	---	---	21.5	19.5	21.5	20.5	21.0	20.0
18	9.5	9.0	13.5	12.5	---	---	22.0	20.0	21.5	20.0	---	---
19	10.0	9.5	13.0	12.5	---	---	21.0	20.0	21.5	19.5	---	---
20	11.0	10.0	12.5	11.0	---	---	22.5	20.5	22.0	20.0	---	---
21	11.0	10.0	11.5	11.0	---	---	23.0	21.0	22.0	20.0	---	---
22	10.5	10.0	12.5	11.5	---	---	22.5	20.5	22.0	20.0	---	---
23	10.0	9.5	13.5	12.5	---	---	23.5	21.5	21.5	20.0	---	---
24	9.5	9.0	14.0	13.5	---	---	23.0	21.5	22.0	20.0	---	---
25	9.0	8.0	13.5	12.5	---	---	23.0	21.0	22.0	20.5	---	---
26	8.5	8.0	14.0	12.5	---	---	24.0	21.5	21.5	20.0	---	---
27	9.5	8.5	14.5	13.5	---	---	23.5	22.0	21.0	20.0	---	---
28	10.5	9.5	14.5	13.5	---	---	23.5	21.5	20.5	19.5	---	---
29	11.0	10.0	15.0	13.5	---	---	23.5	22.0	20.5	19.0	---	---
30	11.5	10.5	15.0	14.0	17.0	15.0	22.0	20.0	20.5	18.5	---	---
31	---	---	15.0	14.5	---	---	22.0	20.0	20.5	18.5	---	---
MONTH	11.5	7.0	15.0	9.0	---	---	24.0	15.0	23.0	18.5	---	---

## SUSPENDED SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)
OCT.					
23...	1400	14.0	3410	8	74
NOV.					
27...	1500	10.0	5870	19	301
DEC.					
31...	1620	5.0	10500	82	2320
MAR.					
10...	1330	8.0	43100	375	43600
APR.					
22...	1515	10.0	30100	203	16500
JUNE					
30...	1630	16.5	8830	49	1170
JULY					
25...	1400	21.5	4400	23	273
SEP.					
05...	1330	21.0	3280	9	80
29...	1745	19.0	3640	9	88

## KLAMATH RIVER BASIN

11530500 KLAMATH RIVER NEAR KLAMATH, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
DEC. 31...	1620	5.0	10500	82	2320	36	--
APR. 22...	1515	10.0	30100	203	16500	--	43
DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 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. 31...	42	--	87	--	100	--	--
APR. 22...	--	50	--	70	--	92	100

## 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, on left bank 0.5 mi (0.8 km) downstream from South Fork, and 8 mi (13 km) east of Crescent City.

DRAINAGE AREA.--609 mi<sup>2</sup> (1,577 km<sup>2</sup>).

PERIOD OF RECORD.--October 1931 to current year. Monthly discharge only for some periods, published in WSP 1315-B.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 89.61 ft (27.313 m) above mean sea level.

AVERAGE DISCHARGE.--44 years, 3,891 ft<sup>3</sup>/s (110.2 m<sup>3</sup>/s), 2,819,000 acre-ft/yr (3.48 km<sup>3</sup>/yr).

EXTREMES.--Current year: Maximum discharge, 129,000 ft<sup>3</sup>/s (3,650 m<sup>3</sup>/s) Mar. 18 (gage height, 36.78 ft or 11.211 m); minimum daily, 184 ft<sup>3</sup>/s (5.21 m<sup>3</sup>/s) Oct. 20-24.  
Period of record: Maximum discharge, 228,000 ft<sup>3</sup>/s (6,460 m<sup>3</sup>/s) Dec. 22, 1964 (gage height, 48.5 ft or 14.78 m, from floodmarks), from rating curve extended above 110,000 ft<sup>3</sup>/s (3,120 m<sup>3</sup>/s) on basis of slope-area measurement at gage height 39.51 ft (12.043 m); minimum daily, 160 ft<sup>3</sup>/s (4.53 m<sup>3</sup>/s) Oct. 24, 25, 1964.

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

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	205	229	545	3300	2570	9460	5230	3820	1970	660	354	315
2	205	220	932	2840	3030	12500	4870	3730	1820	658	348	308
3	205	217	2430	2740	3320	12700	5100	6830	1680	644	342	292
4	205	214	4730	9130	4580	8800	4920	6620	1570	617	338	292
5	199	214	2800	25700	4930	6700	4460	5440	1560	597	329	283
6	196	214	1950	22100	6570	5650	4080	4680	1460	578	325	278
7	196	435	2250	18700	8420	5090	3950	4230	1350	565	329	276
8	196	551	1680	25200	9760	8220	3960	4000	1240	549	328	272
9	196	353	1290	13000	16600	8330	3980	3980	1170	537	322	267
10	196	449	1060	11700	16700	6450	3860	4210	1140	519	317	264
11	196	369	3490	8740	14200	5580	3730	4670	1090	508	312	264
12	199	298	5020	6720	26400	4860	3750	4350	1050	507	304	260
13	199	266	5870	5590	35600	4360	3840	4310	1000	494	296	260
14	196	254	13900	4770	16600	3940	3730	4400	953	482	291	260
15	190	244	9020	4200	10400	3970	3350	3950	920	493	288	260
16	190	238	5120	3680	7740	4610	3030	3400	880	517	288	257
17	190	276	4480	3340	6090	14000	2810	3220	845	490	295	255
18	187	1140	3500	3090	5690	78700	2650	3200	821	475	344	249
19	187	880	2820	2870	33300	35400	2710	3070	807	460	346	243
20	184	562	2720	2690	23700	15700	2770	2660	783	460	314	244
21	184	528	5520	2500	12700	13800	2720	2380	752	447	302	244
22	184	859	5390	2340	8910	13900	2730	2250	739	440	296	244
23	184	640	3850	2190	7010	11600	2960	2270	734	424	296	240
24	184	598	2990	2120	6120	16400	9700	2320	833	417	313	239
25	187	1770	2530	2220	5450	39700	9760	2130	766	405	306	232
26	190	1250	2310	3290	5010	16500	7190	2030	725	394	286	227
27	205	977	20500	2680	6960	11000	5730	2090	705	382	296	228
28	477	985	10200	2380	14700	8380	4830	2070	682	379	467	225
29	444	791	5970	2130	---	6880	4250	2110	671	376	372	224
30	283	640	4770	1950	---	6380	3940	2160	655	367	337	220
31	244	---	3850	2060	---	5970	---	2120	---	366	320	---
TOTAL	6683	16661	143487	205960	323060	405530	130590	108700	31371	15207	10001	7722
MEAN	216	555	4629	6644	11540	13080	4353	3506	1046	491	323	257
MAX	477	1770	20500	25700	35600	78700	9760	6830	1970	660	467	315
MIN	184	214	545	1950	2570	3940	2650	2030	655	366	286	220
AC-FT	13260	33050	284600	408500	640800	804400	259000	215600	62220	30160	19840	15320
CAL YR 1974 TOTAL	1493342			MEAN 4091	MAX 75500	MIN 184	AC-FT 2962000					
WTR YR 1975 TOTAL	1404972			MEAN 3849	MAX 78700	MIN 184	AC-FT 2787000					

Peak discharge (base, 36,000 ft<sup>3</sup>/s)

Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
1-5	1730	26.61	55,600	2-19	1630	27.74	62,300
1-7	2315	23.78	39,000	3-18	1500	36.78	129,000
2-13	0415	25.31	47,700	3-25	0300	28.12	64,600

## SMITH RIVER BASIN

11532500 SMITH RIVER NEAR CRESCENT CITY, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1952-53 (partial-record station), October 1953 to current year.

Water temperatures: October 1965 to current year.

Sediment records: Water years 1955-56 (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 22.0°C July 26, 27.

Period of record:

Water temperatures: Maximum (1966-69, 1970 to current year), 24.5°C July 15, 1972, July 26, 27, 1973; minimum (1966-70, 1971-74), 0.5°C Dec. 10, 11, 1972.

REMARKS.--Chemical-quality records furnished by California Department of Water Resources. Where no maximum or minimum is shown, temperature is once-daily reading.

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)
OCT.							
02...	0650	205	159	7.8	14.0	1	9.7
NOV.							
13...	0815	270	146	7.6	10.0	0	11.4
DEC.							
03...	0820	2240	118	7.8	9.0	3	10.9
JAN.							
07...	0745	11600	77	7.3	8.0	15	11.7
FEB.							
19...	0810	19200	70	7.4	9.0	15	12.6
MAR.							
11...	0720	5660	81	7.4	6.5	2	11.9
APR.							
15...	0700	3400	86	8.2	6.0	1	11.9
MAY							
13...	0720	4360	78	7.4	10.0	1	10.9
JUNE							
10...	0620	1140	107	7.4	16.0	1	9.3
JULY							
07...	1700	570	126	8.1	19.0	0	9.5
AUG.							
11...	1615	312	146	8.2	21.0	0	9.2
SEP.							
02...	1615	308	144	8.0	18.0	0	10.0

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	DIS- SOLVED SODIUM (NA) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LITY AS CACO3 (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)
FEB.									
19...	0810	19200	--	--	2.0	39	0	32	1.3
APR.									
15...	0700	3400	110	0	1.5	50	0	41	1.5
SEP.									
02...	1615	308	--	--	2.6	80	0	66	2.5

DATE	TOTAL NITRATE (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (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)	TEMPER- ATURE (DEG C)
FEB.									
19...	--	--	--	33	1	.2	70	7.4	9.0
APR.									
15...	.01	.00	.01	39	0	.1	86	8.2	6.0
SEP.									
02...	--	--	--	70	4	.1	144	8.0	18.0

DATE	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL ZINC (ZN) (UG/L)
FEB.								
19...	15	12.6	2.5	200	--	--	--	--
APR.								
15...	1	11.9	.5	0	0	0	10	0
SEP.								
02...	0	10.0	1.3	0	--	--	--	--

## SMITH RIVER BASIN

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11532500 SMITH RIVER NEAR CRESCENT CITY, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	OCT		NOV		DEC		JAN		FEB		MAR	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	DAILY		DAILY		DAILY		DAILY		DAILY		DAILY	
1	16.0	-- 14.5	12.5	-- 11.5	8.0	-- 7.5	5.0	-- 4.5	--	--	--	--
2	16.0	-- 15.0	11.5	-- 11.0	9.0	-- 8.0	5.0	-- 4.0	--	--	--	--
3	16.0	-- 15.0	11.0	-- 10.0	9.0	-- 8.5	5.5	-- 4.5	--	--	--	--
4	15.5	-- 14.5	10.5	-- 10.0	8.5	-- 8.0	6.5	-- 5.5	--	--	--	--
5	14.5	-- 13.5	11.0	-- 10.0	8.5	-- 8.0	7.0	-- 6.5	--	--	--	--
6	14.5	-- 13.5	12.0	-- 11.0	9.0	-- 8.5	7.0	-- 7.0	--	--	--	--
7	14.5	-- 13.0	12.5	-- 12.0	9.0	-- 8.0	8.0	-- 7.0	--	--	--	--
8	14.0	-- 13.0	12.5	-- 11.5	8.0	-- 7.5	8.0	-- 6.5	--	--	--	--
9	14.0	-- 13.0	11.5	-- 10.5	8.5	-- 7.5	6.5	-- 6.0	--	--	--	--
10	14.0	-- 13.0	12.0	-- 11.0	8.5	-- 7.5	7.5	-- 6.5	--	--	--	--
11	14.0	-- 13.0	12.0	-- 11.0	9.0	-- 8.0	7.5	-- 7.0	--	--	--	--
12	14.0	-- 13.0	11.5	-- 11.0	8.5	-- 8.0	7.5	-- 7.0	--	--	--	--
13	14.0	-- 13.0	11.0	-- 10.5	8.0	-- 7.0	7.5	-- 7.5	--	--	--	--
14	14.5	-- 13.5	11.0	-- 10.5	8.5	-- 7.5	7.5	-- 6.5	--	--	--	--
15	14.5	-- 13.5	11.0	-- 11.0	9.0	-- 8.5	7.0	-- 6.0	--	--	--	--
16	14.5	-- 13.5	11.5	-- 11.0	8.5	-- 7.5	7.0	-- 6.5	--	--	--	--
17	14.0	-- 13.0	11.0	-- 11.0	7.5	-- 7.0	7.0	-- 6.5	--	--	--	--
18	13.5	-- 13.0	11.5	-- 11.0	7.0	-- 6.5	7.0	-- 6.5	--	--	--	--
19	13.0	-- 13.0	11.0	-- 10.0	7.0	-- 6.5	7.5	-- 7.0	--	--	8.0	--
20	13.0	-- 12.5	10.5	-- 10.0	7.5	-- 7.0	7.5	-- 7.0	--	--	--	--
21	12.5	-- 12.0	10.5	-- 10.0	8.0	-- 6.5	7.5	-- 7.0	--	--	--	--
22	12.0	-- 11.5	10.5	-- 10.0	6.5	-- 5.5	7.5	-- 7.0	--	--	--	--
23	11.5	-- 11.0	10.5	-- 10.0	5.5	-- 4.5	8.0	-- 7.5	--	--	--	--
24	11.5	-- 10.5	10.5	-- 10.0	4.5	-- 4.0	9.0	-- 8.0	8.0	--	--	--
25	12.5	-- 10.5	10.5	-- 10.0	4.5	-- 4.0	9.5	-- 9.0	--	--	--	--
26	13.0	-- 12.0	10.0	-- 9.0	6.0	-- 5.0	9.5	-- 7.5	--	--	6.5	--
27	13.5	-- 13.0	9.5	-- 9.0	7.0	-- 6.5	7.5	-- 6.0	--	--	--	--
28	13.5	-- 13.5	9.5	-- 9.5	6.5	-- 5.5	8.0	-- 5.0	--	--	--	--
29	13.5	-- 12.5	9.5	-- 8.0	5.5	-- 4.5	--	--	--	--	--	--
30	12.5	-- 12.0	8.0	-- 7.0	5.5	-- 5.5	--	--	--	--	--	--
31	12.5	-- 12.0	--	--	5.5	-- 4.5	--	--	--	--	--	--
MONTH	16.0	-- 10.5	12.5	-- 7.0	9.0	-- 4.0	9.5	-- 4.0	--	--	--	--

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

## SMITH RIVER BASIN

11532620 MILL CREEK NEAR CRESCENT CITY, CALIF.

LOCATION.--Lat 41°44'32", long 124°06'06", in NE¼NE¼ sec.31, T.16 N., R.1 E., Del Norte County, Redwood National Park, on left bank 200 ft (61 m) downstream from small left-bank tributary, 0.9 mi (1.4 km) downstream from confluence of West Branch and East Fork Mill Creeks, and 4.9 mi (7.9 km) east of Crescent City.

DRAINAGE AREA.--28.6 mi<sup>2</sup> (74.1 km<sup>2</sup>).

PERIOD OF RECORD.--January 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft (55 m), from topographic map.

EXTREMES.--Current year: Maximum discharge, 4,460 ft<sup>3</sup>/s (126 m<sup>3</sup>/s) Mar. 18 (gage height, 8.51 ft or 2.594 m); minimum daily, 2.5 ft<sup>3</sup>/s (0.071 m<sup>3</sup>/s) Oct. 2-5, 23, 24.  
Period of record: Maximum discharge, 4,460 ft<sup>3</sup>/s (126 m<sup>3</sup>/s) Mar. 18, 1975 (gage height, 8.51 ft or 2.594 m); minimum daily, 2.5 ft<sup>3</sup>/s (0.071 m<sup>3</sup>/s) Oct. 2-5, 23, 24, 1974.

REMARKS.--Records good except those for period of no gage-height record, which are fair. Minor regulation and diversion above station for lumber mill and park campground use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975  
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	4.7	27	129	269	350	140	99	33	11	6.5	5.7
2	2.5	4.5	52	109	357	479	125	100	31	11	5.7	5.7
3	2.5	4.3	108	105	419	461	130	175	28	11	6.2	5.1
4	2.5	3.9	236	226	643	334	140	170	27	10	6.2	4.7
5	2.5	3.6	113	956	577	252	120	140	30	10	6.2	4.4
6	2.6	3.5	83	1010	479	202	110	125	25	9.6	5.7	4.4
7	2.6	26	77	956	372	183	100	115	23	9.4	5.7	4.4
8	2.7	14	63	1200	302	492	100	102	21	9.3	5.7	4.4
9	2.7	10	50	726	444	457	105	90	20	9.0	5.5	4.4
10	2.9	12	43	582	633	338	100	80	22	8.7	5.5	4.2
11	3.1	11	152	407	577	252	98	108	19	8.4	5.5	4.2
12	3.2	8.5	223	302	842	205	97	94	18	8.2	5.5	4.0
13	3.2	7.0	214	229	1060	174	100	88	17	8.1	5.3	4.2
14	3.0	6.2	587	188	643	147	96	96	16	8.7	5.1	4.4
15	2.6	5.7	419	157	419	183	88	84	15	10	5.1	4.4
16	2.6	5.3	239	127	321	346	81	68	15	9.0	5.1	4.6
17	2.6	15	200	116	242	930	75	58	14	8.6	5.7	4.6
18	2.6	33	155	101	239	2980	70	56	14	8.3	7.0	4.2
19	2.6	19	122	90	1510	1460	71	51	13	8.0	6.2	4.0
20	2.7	14	107	83	898	782	73	46	13	7.9	5.7	4.0
21	2.7	25	291	75	515	700	72	41	13	7.5	5.7	4.0
22	2.6	35	273	70	354	790	73	38	12	7.3	5.5	4.0
23	2.5	22	208	62	262	620	80	39	16	7.2	5.3	4.0
24	2.5	23	168	63	208	1000	260	40	15	7.1	5.5	3.9
25	2.6	120	137	74	171	1580	245	36	14	7.0	5.5	3.7
26	3.0	72	125	134	144	450	200	35	13	6.9	4.7	3.7
27	3.8	37	772	92	223	285	160	36	12	6.7	5.5	3.7
28	17	42	440	84	492	220	135	37	12	6.6	14	3.7
29	7.9	35	269	75	---	185	115	37	12	6.5	8.1	3.7
30	5.3	29	205	70	---	170	105	38	11	6.4	7.5	3.7
31	5.1	---	154	98	---	155	---	36	---	6.4	7.0	---
TOTAL	109.6	651.2	6312	8696	13615	17162	3464	2358	544	259.8	189.4	128.1
MEAN	3.54	21.7	204	281	486	554	115	76.1	18.1	8.38	6.11	4.27
MAX	17	120	772	1200	1510	2980	260	175	33	11	14	5.7
MIN	2.5	3.5	27	62	144	147	70	35	11	6.4	4.7	3.7
AC-FT	217	1290	12520	17250	27010	34040	6870	4680	1080	515	376	254

WTR YR 1975 TOTAL 53489.1 MEAN 147 MAX 2980 MIN 2.5 AC-FT 106100

Peak discharge (base, 1,100 ft <sup>3</sup> /s)							
Date	Time	G.H.	Discharge	Date	Time	G.H.	Discharge
12-27	0915	4.23	1,200	2-19	1200	6.49	2,840
1-5	1715	5.67	2,270	3-18	1345	8.51	4,460
1-7	2015	5.14	1,910	3-25	unknown	6.41	2,780
2-13	0100	4.41	1,330				

NOTE.--No gage-height record Mar. 21 to July 31.

## 11532620 MILL CREEK NEAR CRESCENT CITY, CALIF.--Continued

PERIOD OF RECORD.--Chemical analyses: Water years 1974 to current year (partial-record station).

Water temperatures: February 1974 to current year.

Sediment records: Water years 1974 to current year (partial-record station).

EXTREMES.--Current year:

Water temperatures: Maximum, 20.5°C July 25, 26, Aug. 1; minimum, 4.5°C Jan. 31.

Period of record:

Water temperatures: Maximum, 23.5°C July 25, 1974; minimum, 4.0°C Mar. 7-9, 1974.

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

## CHEMICAL ANALYSES, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED ALUM- INUM (AL) (UG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)
JAN.											
07...	1500	1060	7.3	40	60	6.3	.5	3.1	.6	16	--
07...	2025	1880	6.8	40	40	3.8	1.5	2.9	.6	13	--
08...	0900	1240	7.3	20	20	3.0	1.3	3.0	.6	14	--
MAR.											
17...	1545	1410	6.3	30	50	2.7	1.7	2.5	.3	16	--
18...	1600	4250	5.6	200	80	1.7	1.2	2.4	1.3	12	--
19...	1100	1420	6.5	40	60	2.7	.9	3.2	.6	14	--
JUNE											
05...	1115	28	8.3	10	70	4.2	2.0	3.8	.4	21	0

DATE	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	DIS- SOLVED VED- PHOS- PHORUS (P) (MG/L)
JAN.											
07...	12	1.6	4.4	.0	.33	.00	.33	--	--	.89	.00
07...	11	1.6	4.0	.0	2.6	.00	2.6	--	--	.41	.00
08...	11	1.3	4.2	.0	.35	.00	.35	--	--	.26	.00
MAR.											
17...	13	1.5	2.3	.2	.16	.00	.16	--	--	.06	.03
18...	10	1.8	2.8	.1	.26	.00	.26	--	--	.10	.02
19...	12	1.8	3.4	.1	.25	.00	.25	--	--	.05	.02
JUNE											
05...	17	1.5	3.5	--	.02	.00	.02	.01	2.8	2.8	.01

DATE	DIS- SOLVED ORTHOPHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)
JAN.										
07...	.01	34	.05	97.3	18	5	27	.3	41	6.7
07...	.01	39	.05	198	16	5	28	.3	37	--
08...	.01	29	.04	97.1	13	1	32	.4	41	--
MAR.										
17...	.03	26	.04	99.0	14	1	28	.3	36	--
18...	.02	24	.03	275	9	0	33	.3	32	--
19...	.02	27	.04	104	10	0	38	.4	42	6.1
JUNE										
05...	.02	34	.05	2.57	19	2	30	.4	55	7.2

DATE	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	DIS- SOLVED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
JAN.										
07...	9.5	25	10.5	5.1	5.2	.6	1	10	--	240
07...	9.5	--	--	--	6.0	.4	0	8	--	30
08...	9.0	--	--	--	3.8	.2	0	2	--	10
MAR.										
17...	9.0	--	--	--	4.2	--	0	0	--	10
18...	9.5	--	--	--	3.0	8.5	0	4	--	60
19...	9.0	--	11.0	18	1.4	.2	0	1	--	30
JUNE										
05...	14.5	--	--	2.1	.6	.0	0	2	2	0

## SMITH RIVER BASIN

11532620 MILL CREEK NEAR CRESCENT CITY, CALIF.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DAY	MAX	OCT DAILY	MIN	MAX	NOV DAILY	MIN	MAX	DEC DAILY	MIN	MAX	JAN DAILY	MIN	MAX	FEB DAILY	MIN	MAX	MAR DAILY	MIN
1	16.5	--	12.5	--	--	--	--	--	--	--	--	--	7.0	--	5.5	10.0	--	9.5
2	14.0	--	12.5	--	--	--	--	--	--	--	--	--	8.0	--	7.0	10.0	--	9.0
3	--	--	--	--	--	--	--	--	--	--	--	--	8.0	--	7.0	10.0	--	8.5
4	--	--	--	--	--	--	--	--	--	--	--	--	7.5	--	7.0	11.0	--	9.0
5	--	--	--	--	--	--	--	10.0	--	--	--	--	8.5	--	7.5	10.5	--	8.5
6	--	--	--	--	--	--	--	--	--	--	9.5	--	9.5	--	8.0	11.0	--	9.0
7	--	--	--	--	--	--	--	--	--	--	9.5	--	10.0	--	9.0	10.5	--	9.5
8	--	--	--	--	--	--	--	--	--	9.5	--	8.5	10.0	--	9.0	9.5	--	9.0
9	--	--	--	--	--	--	--	--	--	9.0	--	8.0	9.5	--	8.5	10.0	--	8.5
10	--	--	--	--	--	--	--	--	--	10.0	--	9.0	9.0	--	8.5	10.5	--	8.5
11	--	--	--	--	--	--	--	--	--	9.5	--	9.0	9.5	--	8.5	10.5	--	8.0
12	--	--	--	--	9.5	--	--	--	--	10.0	--	9.0	9.5	--	9.0	10.0	--	7.5
13	--	--	--	--	--	--	--	--	--	10.0	--	9.0	9.5	--	8.5	9.0	--	8.0
14	--	--	--	--	--	--	--	--	--	9.0	--	8.0	9.5	--	8.0	10.0	--	7.0
15	--	--	--	--	--	--	--	10.5	--	9.0	--	7.5	9.0	--	7.5	8.5	--	7.5
16	--	--	--	--	--	--	--	--	--	9.0	--	7.5	9.0	--	7.5	9.0	--	7.0
17	--	--	--	--	--	--	--	--	--	9.5	--	8.0	9.0	--	7.0	9.5	--	7.5
18	--	--	--	--	--	--	--	--	--	9.0	--	8.0	9.5	--	8.0	10.0	--	8.0
19	--	--	--	--	--	--	--	--	--	9.0	--	7.5	9.5	--	8.5	9.5	--	8.0
20	--	--	--	--	--	--	--	--	--	9.0	--	8.0	9.0	--	7.5	8.5	--	8.0
21	--	--	--	--	--	--	--	--	--	9.0	--	7.0	9.0	--	7.0	9.0	--	8.0
22	--	--	--	--	--	--	--	--	--	9.5	--	7.5	9.5	--	7.0	9.0	--	8.5
23	--	--	--	--	--	--	--	--	--	9.5	--	8.0	10.0	--	7.5	9.5	--	9.0
24	--	--	--	--	--	--	--	--	--	10.5	--	9.0	10.5	--	7.5	10.0	--	8.0
25	--	--	--	--	--	--	--	--	--	10.5	--	9.5	10.5	--	8.0	--	--	--
26	--	--	--	--	--	--	--	--	--	9.5	--	7.5	9.5	--	8.5	--	--	--
27	--	--	--	--	--	--	--	--	--	7.5	--	6.5	10.5	--	9.0	--	--	--
28	--	--	--	--	--	--	--	--	--	7.5	--	6.0	10.5	--	9.5	--	--	--
29	--	--	--	--	--	--	--	--	--	7.0	--	5.5	--	--	--	--	--	--
30	--	--	--	--	--	--	--	--	--	6.5	--	5.0	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	6.0	--	4.5	--	--	--	--	--	--
MONTH	--	--	--	--	--	--	--	--	--	--	--	--	10.5	--	5.5	--	--	--
DAY	MAX	APR DAILY	MIN	MAX	MAY DAILY	MIN	MAX	JUN DAILY	MIN	MAX	JUL DAILY	MIN	MAX	AUG DAILY	MIN	MAX	SEP DAILY	MIN
1	--	--	--	--	--	--	15.5	--	13.0	13.5	--	12.5	20.5	--	15.5	18.0	--	13.5
2	9.0	--	8.0	--	--	--	14.0	--	12.5	16.5	--	12.0	20.0	--	16.0	18.5	--	13.5
3	8.5	--	7.5	--	--	--	17.0	--	12.0	18.0	--	13.0	19.5	--	15.5	19.0	--	14.0
4	9.0	--	6.5	--	--	--	18.0	--	12.5	17.5	--	14.0	18.5	--	15.0	20.0	--	15.0
5	9.0	--	6.5	--	--	--	18.0	--	13.5	18.5	--	13.0	18.5	--	15.5	19.5	--	15.5
6	10.5	--	7.0	--	--	--	17.5	--	13.0	19.0	--	13.5	16.0	--	15.0	18.0	--	15.5
7	8.5	--	7.5	--	--	--	17.5	--	12.5	17.0	--	14.5	17.5	--	13.0	19.0	--	15.0
8	11.0	--	7.5	--	--	--	18.0	--	12.5	16.5	--	14.5	18.5	--	14.0	19.0	--	14.5
9	9.5	--	7.5	--	--	--	19.5	--	13.5	15.5	--	14.5	18.5	--	14.0	18.0	--	15.5
10	11.5	--	7.0	--	--	--	20.0	--	14.5	16.0	--	14.0	19.0	--	14.5	17.5	--	14.5
11	12.5	--	7.0	--	--	--	18.5	--	14.5	15.5	--	14.0	19.5	--	15.0	18.0	--	14.5
12	13.0	--	8.0	--	--	--	19.5	--	14.0	17.5	--	13.5	19.0	--	15.0	18.0	--	14.5
13	11.0	--	8.5	--	--	--	19.5	--	14.5	18.5	--	14.0	19.0	--	15.0	16.0	--	15.5
14	11.5	--	8.5	--	--	--	20.0	--	14.5	18.0	--	14.0	17.5	--	15.0	15.5	--	14.5
15	16.0	--	8.5	--	--	--	19.0	--	14.5	16.5	--	15.0	18.5	--	15.0	15.0	--	14.5
16	--	--	--	--	--	--	18.5	--	14.0	16.5	--	15.0	18.0	--	15.0	16.5	--	14.0
17	--	--	--	--	--	--	18.0	--	13.5	18.5	--	13.5	16.5	--	15.0	18.0	--	14.0
18	--	--	--	--	--	--	17.5	--	13.0	19.5	--	14.5	18.5	--	15.0	17.0	--	13.0
19	--	--	--	--	--	--	17.5	--	13.5	18.0	--	16.0	18.5	--	15.0	15.5	--	14.5
20	--	--	--	--	--	--	15.5	--	13.5	18.5	--	15.5	19.5	--	15.0	16.5	--	13.5
21	--	--	--	--	--	--	17.5	--	12.5	19.5	--	15.5	19.5	--	15.0	16.5	--	14.5
22	--	--	--	--	--	--	15.5	--	13.0	19.5	--	15.0	19.0	--	15.5	16.5	--	14.5
23	--	--	--	--	--	--	14.0	--	12.5	20.0	--	15.0	17.5	--	15.5	17.0	--	13.0
24	--	--	--	--	--	--	14.5	--	11.5	20.0	--	16.5	19.5	--	15.0	17.0	--	13.0
25	--	--	--	--	--	--	14.5	--	11.5	20.5	--	15.5	19.0	--	15.0	17.5	--	13.5
26	--	--	--	--	--	--	16.5	--	12.5	20.5	--	16.0	18.5	--	15.0	17.0	--	13.0
27	--	--	--	--	--	--	17.0	--	12.5	19.0	--	16.5	16.5	--	15.0	15.0	--	14.0
28	--	--	--	--	--	--	17.0	--	12.0	20.0	--	16.5	17.5	--	14.0	16.0	--	13.0
29	--	--	--	18.0	--	15.5	17.0	--	12.0	19.5	--	16.5	16.5	--	14.0	17.0	--	13.0
30	--	--	--	18.5	--	12.5	15.5	--	13.5	19.0	--	15.0	17.5	--	15.0	16.5	--	12.5
31	--	--	--	17.5	--	13.0	--	--	--	19.0	--	14.5	17.5	--	13.5	--	--	--
MONTH	--	--	--	--	--	--	20.0	--	11.5	20.5	--	12.0	20.5	--	13.0	20.0	--	12.5



11532620 MILL CREEK NEAR CRESCENT CITY, CALIF.--Continued

## PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

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
JAN.											
07...	1730	9.5	1610	204	887	--	--	--	--	--	--
07...	2205	9.5	1780	136	654	--	--	--	--	--	--
08...	0815	9.0	1270	46	158	--	--	--	--	--	--
MAR.											
17...	1945	8.5	1770	286	1370	--	--	--	--	--	--
18...	0500	9.5	2000	176	950	--	--	--	--	--	--
18...	0940	--	3260	889	7830	16	24	31	39	50	--
18...	1215	9.5	4070	1450	15900	22	31	40	52	64	74
18...	1515	9.5	4390	1350	16000	22	30	39	51	64	73
18...	1845	9.5	3500	786	7430	20	27	37	47	58	--
19...	1430	9.0	1250	114	385	--	--	--	--	--	--

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
JAN.										
07...	55	--	69	--	82	--	92	--	99	100
07...	63	--	73	--	83	--	92	--	99	100
08...	65	--	74	--	84	--	96	--	100	--
MAR.										
17...	38	--	46	--	55	--	61	--	66	74
18...	50	--	59	--	73	--	85	--	89	100
18...	58	--	69	--	80	--	89	--	94	100
18...	--	84	--	94	--	99	--	100	--	--
18...	--	84	--	92	--	98	--	100	--	--
18...	68	--	80	--	90	--	97	--	99	100
19...	63	--	76	--	88	--	97	--	100	--

PARTICLE-SIZE DISTRIBUTION OF BED SEDIMENT IN TRANSIT WITHIN 0.25 FOOT OF BED SURFACE,  
WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SEDI- MENT BEDLOAD DIS- CHARGE (T/DAY)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .062 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM
JAN.								
07...	1920	--	1870	103	--	--	2	9
30...	1125	5.0	70	.00	--	--	--	--
MAR.								
17...	2030	8.5	1750	342	--	--	3	8
18...	1015	10.0	3260	193	1	1	7	21
19...	1445	9.5	1250	122	--	--	--	2

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM
JAN.								
07...	25	43	58	72	83	93	100	--
30...	--	--	--	--	--	--	--	--
MAR.								
17...	10	12	16	25	44	68	93	100
18...	31	42	54	64	71	89	100	--
19...	5	9	15	22	32	55	70	100

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations and the second is a table of annual maximum discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a third table.

#### Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of the stream. The column headed "Period of record" shows the water years in which measurements were made at the same or practically the same site.

#### DISCHARGE MEASUREMENTS MADE AT LOW-FLOW PARTIAL-RECORD STATIONS DURING WATER YEAR 1975

DISCHARGE MEASUREMENTS MADE AT LOW FLOW PARTIAL RECORD STATIONS DURING WATER YEAR 1975						
Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
NAPA RIVER BASIN						
11458120	Milliken Creek tributary near Napa	Lat 38°20'06", long 122°16'46", in Yajome Grant, Napa County, at upstream side of bridge, 0.7 mi (1.1 km) upstream from mouth, and 2.6 mi (4.2 km) north of Napa.	2.54	1971-75	12-5-74 2-24-75 3-31-75	0 <1.0 <1.0
11458150	Sarco Creek near Napa	Lat 38°19'56", long 122°15'06", in Tulucay Grant, Napa County, at culvert on Vichy Avenue, 3 mi (5 km) northwest of Napa.	3.56	1971-75	12-5-74	0

#### Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for the current water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been obtained.

#### ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1975

Station No.	Station name	Location	Drainage area (mi <sup>2</sup> )	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)
NAPA RIVER BASIN							
11458120 <sup>1/</sup>	Milliken Creek tributary near Napa	Lat 38°20'06", long 122°16'46", in Yajome Grant, Napa County, on right bank at upstream side of bridge, 0.7 mi (1.1 km) upstream from mouth, and 2.6 mi (4.2 km) north of Napa.	2.54	1972-75	2-11-75	54.62	297
11458140	Milliken Creek at Napa	Lat 38°19'31", long 122°16'24", in Yajome Grant, Napa County, on right bank at upstream side of West Trancas Road bridge, at Napa, and 0.7 mi (1.1 km) upstream from mouth.	20.8	1971-75	3-21-75	55.60	--
11458150 <sup>1/</sup>	Sarco Creek near Napa	Lat 38°19'56", long 122°15'06", in Tulucay Grant, Napa County, on left bank at culvert on Vichy Avenue, 3 mi (5 km) northwest of Napa.	3.56	1971-75	3-21-75	53.96	547

See footnotes at end of table.

## ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1975--Continued

Station No.	Station name	Location	Drain- age area (mi <sup>2</sup> )	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)
SAN RAFAEL CREEK BASIN							
11459790	San Rafael Creek at Sirard Lane, at San Rafael	Lat 37°59'04", long 122°32'58", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on left bank on upstream wingwall of culvert on Sirard Lane in San Rafael.	0.19	1972-75a	3-21-75	54.58	70
11459810	Irwin Creek tributary at San Rafael	Lat 37°59'28", long 122°30'29", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on right bank at end of Cascade Lane in Black Canyon in San Rafael.	.11	1972-75a	2-12-75	50.24	3.0
11459820	Irwin Creek tributary No. 2 at San Rafael	Lat 37°58'56", long 122°30'24", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on right bank at upstream side of culvert on Deer Park Road at San Rafael.	.16	1972-75a	3-21-75	52.27	19
RUSSIAN RIVER BASIN							
11460940	Russian River near Redwood Valley	Lat 39°19'10", long 123°13'20", in NW¼ sec.20, T.17 N., R.12 W., Mendocino County, on left bank 600 ft (183 km) upstream from Rocky Creek and 3.8 mi (6.1 km) north of town of Redwood Valley.	14.1	1964-68b 1969-75	3-21-75	7.11	1,540
11463940	Franz Creek near Kellogg	Lat 38°36'30", long 122°45'35", in Mallacomes Grant, Sonoma County, on left bank at down- stream side of highway bridge, 100 ft (30 m) downstream from Bidwell Creek, and 2 mi (3 km) south of Kellogg.	15.7	1956 1958-62 1963-68b 1969-75	2-12-75	5.33	1,070
ALBION RIVER BASIN							
11468010	Albion River near Comptche	Lat 39°15'40", long 123°37'00", in SW¼ sec.11, T.16 N., R.16 W., Mendocino County, on right bank 2,000 ft (610 m) downstream from Morrison Gulch and 1.7 mi (2.7 km) west of Comptche.	14.4	1961-69b 1970-75	2-12-75	7.30	840
EEL RIVER BASIN							
11469600	Hull Creek near Potter Valley	Lat 39°32'39", long 122°55'34", in NW¼SE¼ sec.35, T.20 N., R.10 W., Mendocino County, Mendocino National Forest, at culvert on Hull Creek Road, 18 mi (29 km) north- east of Potter Valley.	1.49	1970-75	3-12-75	54.98	325
11469650	Corbin Creek near Elk Creek	Lat 39°32'56", long 122°43'28", in NW¼NE¼ sec.35, T.20 N., R.8 W., Glenn County, Mendocino National Forest, at culvert on Elk Creek-Potter Valley Road, 11 mi (18 km) southwest of town of Elk Creek.	6.18	1971-75	3-12-75	56.86	1,050
11469800	Cold Creek tributary near Elk Creek	Lat 39°26'18", long 122°45'35", Lake County, Mendocino National Forest, at culvert on Pacific Crest Road, 4 mi (6 km) upstream from mouth, and 16.5 mi (26.5 km) south- west of town of Elk Creek.	.81	1969-70b 1971-75	3-12-75	3.29	80
11475500	South Fork Eel River near Branscomb	Lat 39°43'09", long 123°39'06", in NW¼ sec.32, T.22 N., R.16 W., Mendocino County, on right bank 0.4 mi (0.6 km) upstream from Jack of Hearts Creek and 4.7 mi (7.6 km) north of Branscomb.	43.9	1946-70b 1972-75	3-18-75	10.73	8,090

See footnotes at end of table.

## DISCHARGE AT PARTIAL-RECORD STATIONS

## ANNUAL MAXIMUM DISCHARGE AT CREST-STAGE PARTIAL-RECORD STATIONS DURING WATER YEAR 1975--Continued

Station No.	Station name	Location	Drain- age area (mi <sup>2</sup> )	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft <sup>3</sup> /s)
EEL RIVER BASIN--Continued							
11475700	Tenmile Creek near Laytonville	Lat 39°45'45", long 123°32'30", in NW¼ sec.16, T.22 N., R.15 W., Mendocino County, on right bank 0.1 mi (0.2 km) downstream from Step Gulch Creek and 6.0 mi (9.7 km) northwest of Laytonville.	50.3	1957-74b 1975	3-18-75	13.33	9,150
KLAMATH RIVER BASIN							
11522300	South Fork Salmon River near Forks of Salmon	Lat 41°13'20", long 123°15'00", in SE¼ sec.30, T.39 N., R.12 W., Siskiyou County, on left bank 100 ft (30 m) downstream from Methodist Creek and 4.5 mi (7.2 km) southeast of town of Forks of Salmon.	252	1958-66b 1967-75	3-18-75	10.86	7,750
11528400	Hayfork Creek near Hayfork	Lat 40°31'10", long 123°05'05", in SW¼ sec.23, T.31 N., R.11 W., Trinity County, 5.8 mi (9.3 km) southwest of Hayfork.	86.7	1956-66b 1967-72 1974-75	3-18-75	9.14	2,500
SMITH RIVER BASIN							
11532000	South Fork Smith River near Crescent City	Lat 41°47'30", long 124°01'30", in SE¼ sec.11, T.16 N., R.1 E., Del Norte County, 9.5 mi (15.3 km) east of Crescent City.	291	1911-13b 1954-61b 1962-75	3-18-75	31.18	68,700

1. Also a low-flow partial-record station.

a Water-quality data published in partial-record section of this report.

b Operated as a continuous-record gaging station.

## Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging  
stations or partial-record stations are given in the following table.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1975

Stream and/or name and No.	Tributary to	Location	Drain- age area (mi <sup>2</sup> )	Measured pre- viously (water year)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
SAN LORENZO RIVER BASIN						
Kings Creek near Boulder Creek <sup>1/</sup> (11160036)	San Lorenzo River	Lat 37°09'35", long 122°07'32", in SE¼SW¼ sec.7, T.9 S., R.2 W., Santa Cruz County, at upstream side of bridge on Kings Creek Road at Redwood Grove, 0.7 mi (1.1 km) upstream from mouth, and 2.3 mi (3.7 km) north of town of Boulder Creek.	7.56	1973-74	10-22-74	0.49
					11-19-74	.69
					12-16-74	.87
					1-14-75	2.0
					2-25-75	6.1
					4-8-75	16
					5-20-75	3.2
					6-24-75	1.7
San Lorenzo River at Boulder Creek <sup>1/</sup> (11160045)	Pacific Ocean	Lat 37°08'31", long 122°07'58", in NW¼NW¼ sec.19, T.9 S., R.2 W., Santa Cruz County, at upstream side of Brimblecom Road Bridge, 100 ft (30 m) downstream from Two Bar Creek, and 1.3 mi (2.1 km) northwest of Boulder Creek.	22.9	1973-74	10-22-74	1.3
					11-19-74	2.6
					12-16-74	3.3
					1-14-75	7.1
					2-25-75	19
					4-8-75	43
					5-20-75	8.3
					6-24-75	6.2
Bear Creek near Boulder Creek <sup>1/</sup> (11160055)	San Lorenzo River	Lat 37°09'54", long 122°04'25", in SW¼NW¼ sec.10, T.9 S., R.2 W., Santa Cruz County, at downstream side of bridge on Bear Creek Road, 3.8 mi (6.1 km) northeast of town of Boulder Creek, and 4.4 mi (7.1 km) upstream from mouth.	10.4	1974	10-22-74	.63
					11-19-74	1.4
					12-16-74	2.0
					1-14-75	4.8
					2-25-75	8.6
					4-8-75	22
					5-20-75	4.7
					6-24-75	2.8

See footnotes at end of table.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1975--Continued

Stream and/or name and No.	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water year)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
SAN LORENZO RIVER BASIN--Continued						
Bear Creek at Boulder Creek <sup>1/</sup> (11160060)	San Lorenzo River	Lat 37°07'40", long 122°07'14", in NW¼NE¼ sec.30, T.9 S., R.2 W., Santa Cruz County, at upstream side of bridge, in town of Boulder Creek, 200 ft (61 m) upstream from mouth.	16.2	1974	10-23-74	1.0
					11-20-74	2.1
					12-17-74	2.9
					1-15-75	4.4
					2-26-75	12
					4-9-75	29
					5-21-75	7.2
Boulder Creek above Jamison Creek, near Boulder Creek <sup>1/</sup> (11160065)	San Lorenzo River	Lat 37°08'56", long 122°09'22", in NE¼SE¼ sec.14, T.9 S., R.3 W., Santa Cruz County, at upstream side of bridge on State Highway 236, 0.2 mi (0.3 km) upstream from Jamison Creek, 0.8 mi (1.3 km) north of Forest Springs, 2.6 mi (4.2 km) northwest of town of Boulder Creek, and 2.9 mi (4.7 km) upstream from mouth.	6.03	1974	10-23-74	.03
					11-20-74	.53
					12-17-74	.83
					1-15-75	1.7
					2-26-75	6.2
					4-9-75	12
					5-21-75	1.8
Boulder Creek at Boulder Creek <sup>1/</sup> (11160070)	San Lorenzo River	Lat 37°07'36", long 122°07'18", in NW¼NE¼ sec.30, T.9 S., R.2 W., Santa Cruz County, at upstream side of bridge on State Highway 9, in town of Boulder Creek, and 0.1 mi (0.2 km) upstream from mouth.	11.3	1974	10-23-74	2.0
					11-20-74	3.0
					12-17-74	3.5
					1-15-75	7.3
					2-26-75	14
					4-9-75	31
					5-21-75	9.5
Love Creek at Ben Lomond <sup>1/</sup> (11160150)	San Lorenzo River	Lat 37°05'20", long 122°05'13", in NE¼SW¼ sec.4, T.10 S., R.2 W., Santa Cruz County, at upstream side of bridge on Glen Arbor Road in Ben Lomond, 400 ft (122 m) upstream from mouth.	3.04	1974	10-24-74	.42
					11-21-74	8.5
					12-19-74	.95
					1-16-75	.78
					2-27-75	2.1
					4-10-75	3.9
					5-22-75	1.2
Newell Creek at Ben Lomond <sup>1/</sup> (11160200)	San Lorenzo River	Lat 37°05'42", long 122°04'23", in SW¼NW¼ sec.3, T.10 S., R.2 W., Santa Cruz County, 1.1 mi (1.8 km) upstream from mouth and 1 mi (2 km) northeast of Ben Lomond.	8.98	1958-61a 1974	10-23-74	1.0
					11-20-74	.90
					12-17-74	1.3
					1-15-75	.98
					2-26-75	1.3
					4-9-75	1.5
					5-21-75	1.3
Fall Creek near Bennett Creek, at Felton <sup>1/</sup> (11160230)	San Lorenzo River	Lat 37°03'11", long 122°04'45", in NE¼NE¼ sec.21, T.10 S., R.2 W., Santa Cruz County, just upstream from Citizens Utilities diversion, 200 ft (61 m) upstream from bridge, 0.3 mi (0.5 km) downstream from Bennett Creek, 0.4 mi (0.6 km) northwest of Felton, and 0.5 mi (0.8 km) upstream from mouth.	4.33	1974	10-24-74	2.7
					11-21-74	5.7
					12-19-74	2.8
					1-16-75	2.6
					2-27-75	5.4
					4-10-75	11
					5-22-75	5.8
Fall Creek at Felton <sup>1/</sup> (11160250)	San Lorenzo River	Lat 37°03'33", long 122°04'42", in Zayante Grant, Santa Cruz County, at upstream side of bridge on State Highway 9, 350 ft (107 m) upstream from mouth, and 0.7 mi (1.1 km) northwest of Felton.	4.94	1974	10-24-74	4.5
					11-21-74	7.8
					12-19-74	3.5
					1-16-75	4.4
					2-27-75	6.0
					4-10-75	12
					5-22-75	6.4
Zayante Creek at Felton <sup>1/</sup> (11160450)	San Lorenzo River	Lat 37°02'54", long 122°03'55", in Zayante Grant, Santa Cruz County, 600 ft (183 m) upstream from mouth and 0.4 mi (0.6 km) southwest of Felton.	26.4	1973-74	10-24-74	6.8
					11-21-74	48
					12-19-74	8.7
					1-16-75	8.2
					2-27-75	20
					4-10-75	42
					5-22-75	13
6-26-75	8.6					

See footnotes at end of table.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1975--Continued

Stream and/or name and No.	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water year)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
SAN LORENZO RIVER BASIN--Continued						
Carbonera Creek at Santa Cruz <sup>1/</sup> (11161400)	Branciforte Creek	Lat 36°59'12", long 122°00'48", in NW¼SW¼ sec.7, T.11 S., R.1 W., Santa Cruz County, at downstream side of bridge, in Santa Cruz, 250 ft (76 m) upstream from mouth.	7.42	1974	10-25-74 11-22-74 12-20-74 1-17-75 2-28-75 4-11-75 5-23-75 6-27-75	.90 2.4 1.2 1.6 3.3 8.8 2.2 .97
Branciforte Creek at Santa Cruz <sup>1/</sup> (11161500)	San Lorenzo River	Lat 36°59'10", long 122°00'48", in NE¼SW¼ sec.7, T.11 S., R.1 W., Santa Cruz County, in Santa Cruz, 15 ft (5 m) downstream from Market Street bridge, and 1.0 mi (1.6 km) upstream from mouth.	17.3	1940-43a 1952-68a 1974	10-25-74 11-22-74 12-20-74 1-17-75 2-28-75 4-11-75 5-23-75 6-27-75	2.3 4.9 3.1 4.0 7.2 23 3.7 2.5
CALABAZAS CREEK BASIN						
Calabazas Creek at Mt. Eden Road, near Saratoga <sup>1/</sup> (11169581)	San Francisco Bay	Lat 37°16'03", long 122°03'31", in SE¼NE¼ sec.3, T.8 S., R.2 W., Santa Clara County, at culvert on Mt. Eden Road, 100 ft (30 m) upstream from small left-bank tributary, and 1.7 mi (2.7 km) northwest of Saratoga Post Office.	.49	1973-74	2-6-75 2-13-75 2-13-75 3-7-75 3-7-75 3-7-75	.80 2.8 2.1 11 13 6.4
Calabazas Creek tributary No. 3 at Mt. Eden Road, near Saratoga <sup>1/</sup> (11169586)	Calabazas Creek	Lat 37°15'54", long 122°03'19", in NW¼SW¼ sec.2, T.8 S., R.2 W., Santa Clara County, at culvert on Mt. Eden Road, 200 ft (61 m) upstream from mouth, and 1.4 mi (2.3 km) northwest of Saratoga Post Office.	.11	1973-74	2-6-75 2-13-75 2-13-75 3-7-75 3-7-75 3-7-75	.33 .99 .82 5.6 4.1 2.2
Calabazas Creek tributary No. 4 at Mt. Eden Road, near Saratoga <sup>1/</sup> (11169588)	Calabazas Creek	Lat 37°15'54", long 122°03'18", in NW¼SW¼ sec.2, T.8 S., R.2 W., Santa Clara County, at culvert on Mt. Eden Road, 400 ft (122 m) upstream from mouth and 1.4 mi (2.3 km) northwest of Saratoga Post Office.	.26	1973-74	2-6-75 2-13-75 2-13-75 3-7-75 3-7-75 3-7-75	1.1 3.4 3.0 32 11 12
ALAMEDA CREEK BASIN						
Alameda Creek at Sunol <sup>1/</sup> (11174200)	San Francisco Bay	Lat 37°35'15", long 121°53'21", in Valle de San Jose Grant, Alameda County, on left bank 50 ft (15 m) upstream from road ford, 600 ft (183 m) upstream from Arroyo de la Laguna, and 0.6 mi (1.0 km) south of Sunol.	1.98	--	2-19-75 4-11-75 5-2-75 8-5-75	1.71 59.5 15.1 1.61
Alamo Canal near Pleasanton <sup>1/</sup> (11174600)	Alameda Creek	Lat 37°41'10", long 121°54'54", in Santa Rita Grant, Alameda County, on right bank 30 ft (9 m) upstream from VCSD wasteway, 0.7 mi (1.1 km) upstream from Arroyo Mocho, 3 mi (5 km) northwest of Pleasanton.	--	--	1-21-75 2-20-75 4-11-75 5-16-75 7-16-75 8-5-75 8-14-75	2.63 7.70 12.0 3.12 2.02 1.61 4.60
Arroyo Las Positas near Livermore <sup>1/</sup> (11176150)	Arroyo Mocho	Lat 37°41'52", long 121°48'15", in Valle de San Jose Grant, Alameda County, on right bank, 15 ft (5 m) upstream from Kitty Hawk Road, 800 ft (244 m) upstream from Collier Creek, and 2.3 mi (3.7 km) northwest of Livermore.	64.6	1912-19a 1921-30a	1-21-75 2-20-75 4-11-75 5-13-75	0 .92 1.25 0
Vallecitos Creek at Sunol <sup>2/</sup> (11177200)	Arroyo de la Laguna	Lat 37°35'42", long 121°52'51", in Valle de San Jose Grant, Alameda County, on right bank at culvert on Sunol Road, 700 ft (213 m) upstream from mouth, and 0.3 mi (0.5 km) east of Sunol.	7.48	--	12-13-74 1-21-75 4-11-75 4-30-75 8-15-75	.31 .60 1.21 .63 .38

See footnotes at end of table.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1975--Continued

Stream and/or name and No.	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water year)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
ALAMEDA CREEK BASIN--Continued						
Sinbad Creek at Sunol <sup>1/</sup> (11177300)	Arroyo de la Laguna	Lat 37°35'41", long 121°53'07", in Valle de San Jose Grant, Alameda County, on left bank at culvert on Western Pacific Railroad in Sunol, 900 ft (274 m) upstream from mouth.	6.50	--	1-21-75 2-19-75 4-10-75 4-30-75	0 2.18 9.35 1.41
Stonybrook Creek near Niles <sup>1/</sup> (11178400)	Alameda Creek	Lat 37°35'54", long 126°56'51", in SE <sup>1</sup> / <sub>4</sub> sec.11, T.4 S., R.1 W., Alameda County, on right bank at culvert on State Highway 84, 50 ft (15 m) upstream from mouth, and 2.5 mi (4.0 km) north of Niles.	6.88	--	1-21-75 4-10-75 5-13-75	.09 9.18 .98
SAN RAFAEL CREEK BASIN						
San Rafael Creek at Sirard Lane, at San Rafael <sup>1/</sup> (11459790)	San Francisco Bay	Lat 37°59'04", long 122°32'58", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, on upstream wingwall of culvert on Sirard Lane in San Rafael.	.19	1972-74	1-6-75 2-3-75 2-13-75	.53 1.6 4.0
Irwin Creek tributary at San Rafael <sup>1/</sup> (11459810)	San Rafael Creek	Lat 37°59'28", long 122°30'29", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, at end of Cascade Lane in Black Canyon in San Rafael.	.11	1972-74	2-13-75	2.0
Irwin Creek tributary No. 2 at San Rafael <sup>1/</sup> (11459820)	Irwin Creek	Lat 37°58'56", long 122°30'24", in San Pedro Santa Margarita Las Gallinas Grant, Marin County, at upstream side of culvert on Deer Park Road at San Rafael.	.18	1972-74	2-13-75	5.9
KLAMATH RIVER BASIN						
Fall Creek (11512000)	Klamath River	NE <sup>1</sup> / <sub>4</sub> sec.36, T.48 N., R.5 W., Siskiyou County, 1,500 ft (457 m) upstream from mouth and 0.8 mi (1.3 km) south of Fall Creek powerplant and Copco Post Office.	14.6	1928-59a 1964-74	1-22-75 9-3-75	43.8 b 38.1
Dutch Creek	Klamath River	SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.28, T.48 N., R.5 W., Siskiyou County, 1,000 ft (305 m) upstream from Iron Gate Reservoir, 1,000 ft (305 m) upstream from Camp Creek, and 3.7 mi (6.0 km) west of Copco.	--	--	1-22-75 2-3-75	.56 .11
Camp Creek	Klamath River	SE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.28, T.48 N., R.5 W., Siskiyou County, 1,000 ft (305 m) upstream from Iron Gate Reservoir, 1,800 ft (549 m) upstream from Scotch Creek, and 3.8 mi (6.1 km) west of Copco.	--	--	4-7-75 5-2-75 6-2-75 7-8-75 8-5-75	25.8 48.2 41.9 b 3.09 b .63
Bogus Creek	Klamath River	NE <sup>1</sup> / <sub>4</sub> sec.17, T.47 N., R.3 W., Siskiyou County, 0.5 mi (0.8 km) downstream from Iron Gate Dam and 6.0 mi (9.7 km) northeast of Hornbrook.	--	1965-74	9-3-75	b 17.8
Beaver Creek (11517800)	Klamath River	NE <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> sec.30, T.47 N., R.8 W., Siskiyou County, 1.9 mi (3.1 km) upstream from mouth and 14.8 mi (23.8 km) north-west of Yreka.	106	1953-58 1959-65a 1967-74	9-3-75	b 51.7
South Fork Scott River (11518200)	Scott River	SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> sec.20, T.40 N., R.8 W., Siskiyou County, opposite unnamed tributary 1.1 mi (1.8 km) southwest of Callahan and 1.5 mi (2.4 km) upstream from East Fork Scott River.	42.5	1958-60a 1964 1966-74	9-5-75	b 17.0

See footnotes at end of table.

## DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 1975--Continued

Stream and/or name and No.	Tributary to	Location	Drainage area (mi <sup>2</sup> )	Measured previously (water year)	Measurements	
					Date	Discharge (ft <sup>3</sup> /s)
KLAMATH RIVER BASIN--Continued						
Moffett Creek (11518600)	Scott River	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.44 N., R.8 W., Siskiyou County, 590 ft (180 m) upstream from Soap Creek and 5.1 mi (8.2 km) east of Fort Jones.	69.8	1958-67a 1968-73	9-18-75	b,c 2.37
Thompson Creek	Klamath River	SE $\frac{1}{4}$ sec.17, T.17 N., R.8 E., Siskiyou County, 50 ft (15 m) upstream from highway bridge, 0.1 mi (0.2 km) upstream from mouth, and 6.0 mi (9.7 km) northeast of Happy Camp.	--	1968-74	9-3-75	b 18.0
Elk Creek (11522200)	Klamath River	NE $\frac{1}{4}$ sec.36, T.16 N., R.7 E., Siskiyou County, 4.0 mi (6.4 km) upstream from mouth and 4.0 mi (6.4 km) south of Happy Camp.	90.4	1956-64a 1967-74	9-3-75	b 40.6
Coffee Creek (11523700)	Trinity River	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.2, T.37 N., R.8 W., Trinity County, 0.8 mi (1.3 km) upstream from Little Boulder Creek, 3.2 mi (5.1 km) upstream from mouth, and 8 mi (13 km) northwest of new location of Trinity Center.	107	1957-66a 1968-74	9-11-75	b 54.4
Deadwood Creek	Trinity River	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.17, T.33 N., R.8 W., Trinity County, 300 ft (91 m) upstream from mouth and 0.7 mi (1.7 km) north-east of Lewiston.	--	1965-74	3-4-75 4-4-75 6-9-75 9-5-75	12.6 41.2 3.32 b .66

1. Water-quality data published in partial-record section of this report.

2. Water-quality data published in this report.

a Operated as a continuous-record gaging station.

b Base flow.

c Above diversion.



## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN  
11160036 KINGS CREEK NEAR BOULDER CREEK, CALIF.LOCATION.--Lat 37°09'35", long 122°07'32", in SE¼SW¼ sec.7, T.9 S., R.2 W., Santa Cruz County.  
DRAINAGE AREA.--7.56 mi<sup>2</sup> (19.58 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SIO <sub>2</sub> ) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)
OCT. 22...	1130	.49	--	--	--	82	15	41	2.5	242	0	200
NOV. 19...	1150	.69	--	--	--	76	13	36	3.0	231	--	200
DEC. 16...	1245	.87	21	60	20	75	15	35	1.9	219	--	180
JAN. 14...	1215	2.0	--	--	--	74	14	31	2.0	201	--	160
FEB. 25...	1200	6.1	--	--	--	55	12	26	1.8	160	0	130
APR. 08...	1230	16	23	140	10	55	11	22	1.8	151	0	120
MAY 20...	1145	3.2	22	50	5	67	13	27	1.9	186	0	150
JUNE 24...	1110	1.7	23	100	50	69	14	30	2.0	197	0	160

DATE	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (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- PHATE (PO <sub>4</sub> ) (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. 22...	95	35	--	--	--	--	--	--	--	270	68
NOV. 19...	87	32	--	--	--	--	--	--	--	240	54
DEC. 16...	100	34	.3	.04	.18	.06	391	.53	.92	250	69
JAN. 14...	100	29	--	--	--	--	--	--	--	240	78
FEB. 25...	91	19	--	--	--	--	--	--	--	190	56
APR. 08...	86	16	.3	.03	.18	.06	290	.39	12.5	180	59
MAY 20...	91	21	.3	.01	.31	.10	335	.46	2.89	220	68
JUNE 24...	95	23	.4	.01	.25	.08	354	.48	1.62	230	68

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT. 22...	25	1.1	637	8.4	11.0	4	10.5	--	1.5	110	320
NOV. 19...	24	1.0	603	8.1	8.5	2	10.7	--	2.9	100	--
DEC. 16...	23	1.0	593	8.1	7.0	3	11.5	1.5	2.8	64	68
JAN. 14...	22	.9	571	8.3	5.0	4	12.3	--	1.6	42	812
FEB. 25...	23	.8	493	7.9	7.0	5	11.7	--	3.2	823	87
APR. 08...	21	.7	432	8.3	8.0	5	11.5	1.3	1.2	44	85
MAY 20...	21	.8	534	8.1	11.0	2	10.7	--	2.4	74	70
JUNE 24...	22	.9	572	8.4	14.0	2	9.8	--	1.3	400	540

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

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
11160045 SAN LORENZO RIVER AT BOULDER CREEK, CALIF.

LOCATION.--Lat 37°08'31", long 122°07'58", in NW¼NW¼ sec.19, T.9 S., R.2 W., Santa Cruz County.

DRAINAGE AREA.--22.9 mi<sup>2</sup> (59.3 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTANTANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (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)	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- LITY AS CAC03 (MG/L)
OCT. 22...	1330	1.3	--	--	--	79	13	53	2.5	231	0	190
NOV. 19...	1330	2.6	--	--	--	70	12	46	3.0	232	--	190
DEC. 16...	1445	3.3	22	60	30	64	13	40	2.1	194	--	170
JAN. 14...	1405	7.1	--	--	--	62	12	33	2.3	173	0	140
FEB. 25...	1400	19	--	--	--	50	10	25	1.9	141	0	120
APR. 08...	1420	43	23	40	40	45	9.8	22	1.9	135	0	110
MAY 20...	1345	8.3	22	80	30	57	12	31	2.1	167	0	140
JUNE 24...	1310	6.2	22	40	1200	67	12	33	2.0	198	0	160

DATE	DIS- SOLVED SULFATE (S04) (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- PHATE (P04) (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. 22...	69	62	--	--	--	--	--	--	--	250	61
NOV. 19...	70	49	--	--	--	--	--	--	--	220	34
DEC. 16...	84	45	.3	.06	.18	.06	367	.50	3.27	210	54
JAN. 14...	80	37	--	--	--	--	--	--	--	200	62
FEB. 25...	71	23	--	--	--	--	--	--	--	170	50
APR. 08...	70	17	.3	.03	.15	.05	256	.35	29.7	150	42
MAY 20...	82	27	.7	.01	.34	.11	317	.43	7.10	190	55
JUNE 24...	81	33	.3	.01	.25	.08	349	.47	5.84	220	54

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT. 22...	31	1.5	732	8.4	12.0	4	10.5	--	1.5	81200	650
NOV. 19...	31	1.3	620	8.3	10.0	6	10.7	--	1.9	380	--
DEC. 16...	29	1.2	593	8.2	7.5	6	11.4	2.5	2.0	72	70
JAN. 14...	26	1.0	521	8.5	6.0	5	12.3	--	.9	40	66
FEB. 25...	24	.8	440	7.8	8.0	6	11.7	--	3.6	50	828
APR. 08...	24	.8	353	7.9	8.5	5	11.4	1.4	2.7	56	828
MAY 20...	26	1.0	502	8.2	12.5	2	10.3	--	1.7	46	130
JUNE 24...	25	1.0	567	8.4	14.5	2	9.7	--	1.3	8170	330

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
11160055 BEAR CREEK NEAR BOULDER CREEK, CALIF.

LOCATION.--Lat 37°09'54", long 122°04'25", in SW¼NW¼ sec.10, T.9 S., R.2 W., Santa Cruz County.  
DRAINAGE AREA.--10.4 mi<sup>2</sup> (26.9 km<sup>2</sup>).  
PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (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 (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LITY AS CACO <sub>3</sub> (MG/L)
OCT. 22...	1500	.63	--	--	--	79	15	37	2.1	248	2	210
NOV. 19...	1500	1.4	--	--	--	74	14	33	2.6	244	--	200
DEC. 16...	1615	2.0	17	40	20	73	16	32	1.7	227	--	190
JAN. 14...	1515	4.8	--	--	--	66	14	28	1.9	195	0	160
FEB. 25...	1620	8.6	--	--	--	56	13	22	2.0	158	0	120
APR. 08...	1600	22	20	10	30	53	13	18	1.7	146	0	120
MAY 20...	1455	4.7	21	50	20	66	15	25	1.8	189	0	150
JUNE 24...	1515	2.8	21	110	6100	69	14	29	1.9	204	0	170

DATE	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (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- PHATE (PO <sub>4</sub> ) (MG/L)	DIS- SOLVED ORTHO, PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (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. 22...	95	26	--	--	--	--	--	--	--	260	52
NOV. 19...	92	23	--	--	--	--	--	--	--	240	42
DEC. 16...	97	24	.3	.01	.15	.05	373	.51	2.01	250	62
JAN. 14...	95	19	--	--	--	--	--	--	--	220	63
FEB. 25...	92	14	--	--	--	--	--	--	--	190	64
APR. 08...	90	11	.3	.01	.12	.04	279	.38	16.6	190	66
MAY 20...	91	15	.4	.02	.40	.13	329	.45	4.18	230	72
JUNE 24...	98	17	.4	.01	.25	.08	357	.49	2.70	230	63

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT. 22...	24	1.0	605	8.4	12.0	5	10.2	--	1.6	823	240
NOV. 19...	23	.9	572	8.3	9.5	8	10.6	--	2.0	88	--
DEC. 16...	22	.9	558	8.4	9.0	5	11.1	--	1.4	38	816
JAN. 14...	21	.8	514	8.5	8.0	6	11.5	--	1.0	50	813
FEB. 25...	20	.7	451	8.0	10.0	9	10.9	--	2.5	820	88
APR. 08...	17	.6	417	8.4	8.0	45	11.3	8.0	.9	8140	40
MAY 20...	19	.7	502	8.3	12.5	1	10.7	--	1.5	810	821
JUNE 24...	21	.8	583	8.5	15.0	4	9.6	--	1.0	58	210

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

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
11160060 BEAR CREEK AT BOULDER CREEK, CALIF.

LOCATION.--Lat 37°07'40", long 122°07'14", in NW¼NE¼ sec.30, T.9 S., R.2 W., Santa Cruz County.

DRAINAGE AREA.--16.2 mi<sup>2</sup> (42.0 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LITY AS CACO <sub>3</sub> (MG/L)
OCT. 23...	0950	1.0	--	--	--	55	13	36	2.3	212	0	180
NOV. 20...	0935	2.1	--	--	--	63	13	35	3.1	213	0	180
DEC. 17...	0945	2.9	22	60	20	61	14	34	1.8	197	--	160
JAN. 15...	0935	4.4	--	--	--	58	14	30	1.9	181	--	150
FEB. 26...	0930	12	--	--	--	53	13	24	2.0	145	0	120
APR. 09...	0900	29	21	40	20	49	12	21	1.5	133	0	110
MAY 21...	0930	7.2	21	60	20	59	13	27	1.8	170	0	140
JUNE 25...	0925	4.4	22	90	50	60	14	29	2.0	184	0	150

DATE	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (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- PHATE (PO <sub>4</sub> ) (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. 23...	72	26	--	--	--	--	--	--	--	190	17
NOV. 20...	71	27	--	--	--	--	--	--	--	210	36
DEC. 17...	83	27	.3	.03	.21	.07	341	.46	2.67	210	48
JAN. 15...	85	23	--	--	--	--	--	--	--	200	54
FEB. 26...	86	17	--	--	--	--	--	--	--	190	67
APR. 09...	85	13	.3	.01	.12	.04	269	.37	21.1	170	63
MAY 21...	84	17	.2	.01	.37	.12	307	.42	5.97	200	61
JUNE 25...	89	20	.3	.01	.21	.07	327	.44	3.88	210	57

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT. 23...	29	1.1	505	8.4	12.0	3	10.1	--	1.4	150	270
NOV. 20...	26	1.0	529	8.4	9.0	3	8.4	--	1.4	70	--
DEC. 17...	26	1.0	508	8.2	7.0	10	11.7	2.1	2.0	78	820
JAN. 15...	24	.9	505	8.0	5.0	4	12.4	--	2.9	66	812
FEB. 26...	22	.8	454	8.0	7.0	6	11.7	--	2.3	834	823
APR. 09...	21	.7	408	8.3	7.0	6	11.8	1.3	1.1	8130	825
MAY 21...	22	.8	480	8.4	11.0	2	10.5	--	1.1	844	48
JUNE 25...	23	.9	525	8.4	13.5	2	9.9	--	1.2	58	270

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

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
 11160065 BOULDER CREEK ABOVE JAMISON CREEK, NEAR BOULDER CREEK, CALIF.

LOCATION.--Lat 37°08'56", long 122°09'22", in NE¼SE¼ sec.14, T.9 S., R.3 W., Santa Cruz County.  
 DRAINAGE AREA.--6.03 mi<sup>2</sup> (15.62 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (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 (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LITY AS CACO <sub>3</sub> (MG/L)
OCT. 23...	1110	.03	--	--	--	33	7.2	27	2.8	111	--	92
NOV. 20...	1035	.53	--	--	--	26	5.7	26	3.2	88	--	74
DEC. 17...	1140	.83	19	280	140	29	7.0	26	1.8	89	--	70
JAN. 15...	1100	1.7	--	--	--	28	6.3	23	1.9	78	--	61
FEB. 26...	1150	6.2	--	--	--	21	5.3	18	1.6	60	0	46
APR. 09...	1020	12	22	130	1200	20	5.2	17	1.6	57	0	48
MAY 21...	1030	1.8	22	150	30	29	6.3	23	1.9	79	0	64
JUNE 25...	1100	.81	22	220	50	32	7.0	25	2.1	82	0	66

DATE	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (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- PHATE (PO <sub>4</sub> ) (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. 23...	40	28	--	--	--	--	--	--	--	110	21
NOV. 20...	41	26	--	--	--	--	--	--	--	88	16
DEC. 17...	46	26	.1	.07	.03	.01	200	.27	.45	100	28
JAN. 15...	47	23	--	--	--	--	--	--	--	96	32
FEB. 26...	48	16	--	--	--	--	--	--	--	74	25
APR. 09...	46	13	.2	.01	.06	.02	155	.21	5.02	71	25
MAY 21...	55	20	.1	.01	.15	.05	197	.27	.96	98	34
JUNE 25...	58	23	.2	.01	.12	.04	210	.29	.46	110	41

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT. 23...	34	1.1	338	7.5	11.5	5	7.5	--	5.6	--	--
NOV. 20...	38	1.2	293	7.7	9.5	9	8.5	--	2.8	850	--
DEC. 17...	35	1.1	316	7.4	7.0	5	10.5	1.8	5.7	68	52
JAN. 15...	34	1.0	296	7.6	5.5	9	11.9	--	3.1	812	826
FEB. 26...	34	.9	243	7.2	7.5	10	11.8	--	6.1	833	810
APR. 09...	34	.9	213	8.0	7.5	7	12.1	1.0	.9	836	85
MAY 21...	33	1.0	310	7.8	10.0	3	10.7	--	2.0	54	8120
JUNE 25...	33	1.0	346	7.6	12.0	3	9.3	--	3.3	70	570

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

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
11160070 BOULDER CREEK AT BOULDER CREEK, CALIF.

LOCATION.--Lat 37°07'36", long 122°07'18", in NW¼NE¼ sec.30, T.9 S., R.2 W., Santa Cruz County.  
DRAINAGE AREA.--11.3 mi<sup>2</sup> (29.3 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (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 (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LITY AS CACO <sub>3</sub> (MG/L)
OCT. 23...	1245	2.0	--	--	--	22	6.4	11	2.1	102	--	77
NOV. 20...	1130	3.0	--	--	--	25	6.1	12	2.8	100	--	84
DEC. 17...	1300	3.5	20	90	20	21	6.5	13	1.7	95	--	80
JAN. 15...	1210	7.3	--	--	--	22	5.9	12	1.9	83	--	67
FEB. 26...	1340	14	--	--	--	18	5.2	12	1.4	70	0	51
APR. 09...	1205	31	19	40	0	16	4.2	11	1.5	64	0	51
MAY 21...	1200	9.5	19	50	5	20	6.1	12	1.8	81	0	64
JUNE 25...	1210	4.8	20	100	10	22	6.7	13	1.9	87	0	71

DATE	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (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- PHATE (PO <sub>4</sub> ) (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. 23...	9.9	9.3	--	--	--	--	--	--	--	81	0
NOV. 20...	12	10	--	--	--	--	--	--	--	88	6
DEC. 17...	15	12	.1	.19	.15	.05	137	.19	1.29	79	1
JAN. 15...	21	13	--	--	--	--	--	--	--	79	11
FEB. 26...	24	11	--	--	--	--	--	--	--	66	9
APR. 09...	20	9.3	.1	.07	.06	.02	113	.15	9.46	57	5
MAY 21...	22	11	.1	.08	.18	.06	133	.18	3.41	75	9
JUNE 25...	20	10	.1	.09	.09	.03	137	.19	1.78	83	11

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT. 23...	22	.5	206	8.1	12.0	2	10.3	--	1.3	B170	440
NOV. 20...	22	.6	212	8.2	10.0	3	11.4	--	1.0	74	--
DEC. 17...	26	.6	206	7.9	8.5	3	11.4	1.7	1.9	826	38
JAN. 15...	24	.6	216	7.9	7.0	5	12.0	--	1.7	210	42
FEB. 26...	28	.6	188	7.3	9.0	6	11.6	--	5.6	92	828
APR. 09...	29	.6	185	8.2	7.0	4	11.4	.9	.6	66	828
MAY 21...	25	.6	202	7.9	11.5	1	10.9	--	1.6	823	830
JUNE 25...	25	.6	208	8.0	13.0	1	10.4	--	1.4	80	330

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

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
11160150 LOVE CREEK AT BEN LOMOND, CALIF.

LOCATION.--Lat 37°05'20", long 122°05'13", in NE¼SW¼ sec.4, T.10 S., R.2 W., Santa Cruz County.

DRAINAGE AREA.--3.04 mi<sup>2</sup> (7.87 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LITY AS CACO <sub>3</sub> (MG/L)
OCT. 24...	1130	.42	--	--	--	46	7.7	22	2.1	169	--	140
NOV. 21...	1030	8.5	--	--	--	25	4.6	15	3.3	75	--	67
DEC. 19...	1030	.95	32	80	20	45	7.6	21	1.5	149	--	120
JAN. 16...	1040	.78	--	--	--	45	8.1	20	1.4	140	--	120
FEB. 27...	1040	2.1	--	--	--	36	6.4	16	1.3	117	0	92
APR. 10...	1000	3.9	28	70	30	33	5.9	14	1.3	105	0	87
MAY 22...	1000	1.2	29	110	10	40	6.8	18	1.5	134	0	110
JUNE 26...	1015	.67	32	100	20	46	7.8	20	1.6	149	0	120

DATE	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (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- PHATE (PO <sub>4</sub> ) (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. 24...	34	21	--	--	--	--	--	--	--	150	8
NOV. 21...	25	16	--	--	--	--	--	--	--	81	20
DEC. 19...	41	22	.2	.08	.55	.18	245	.33	.63	140	21
JAN. 16...	39	24	--	--	--	--	--	--	--	150	31
FEB. 27...	35	16	--	--	--	--	--	--	--	120	20
APR. 10...	30	14	.2	.08	.52	.17	179	.24	1.88	110	21
MAY 22...	35	17	.2	.05	.67	.22	215	.29	.70	130	18
JUNE 26...	37	19	.2	.07	.64	.21	238	.32	.43	150	25

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL. ONIES PER 100 ML)
OCT. 24...	24	.8	377	8.3	13.0	7	10.1	--	1.4	8140	630
NOV. 21...	28	.7	216	7.8	11.5	65	10.2	--	1.9	824000	--
DEC. 19...	24	.8	359	8.1	5.0	3	12.3	2.4	1.9	8190	8210
JAN. 16...	23	.7	354	7.9	7.0	3	12.1	--	2.8	8140	817
FEB. 27...	23	.6	290	7.9	9.0	4	11.6	--	2.4	210	818
APR. 10...	22	.6	262	8.3	8.5	20	11.7	1.2	.8	40	831
MAY 22...	23	.7	315	8.3	11.0	2	10.7	--	1.1	66	72
JUNE 26...	23	.7	364	8.3	13.0	1	10.2	--	1.2	62	410

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

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
11160200 NEWELL CREEK AT BEN LOMOND, CALIF.

LOCATION.--Lat 37°05'42", long 122°04'23", in SW¼NW¼ sec.3, T.10 S., R.2 W., Santa Cruz County.  
DRAINAGE AREA.--8.98 mi<sup>2</sup> (23.3 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (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 (HC03) (MG/L)
OCT. 23...	1400	1.0	--	--	--	50	9.2	21	2.3	148
NOV. 20...	1245	.90	--	--	--	50	8.9	20	2.8	148
DEC. 17...	1500	1.3	13	40	20	52	10	21	2.1	147
JAN. 15...	1400	.98	--	--	--	53	10	20	2.5	154
FEB. 26...	1520	1.3	13	90	60	51	9.7	19	2.3	142
APR. 09...	1330	1.5	19	50	50	46	9.9	17	1.7	133
MAY 21...	1335	1.3	15	70	20	49	10	19	2.2	138
JUNE 25...	1415	1.0	16	40	20	50	8.8	19	2.0	136

DATE	CAR- BONATE (C03) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (P04) (MG/L)
OCT. 23...	--	120	72	14	--	--	--	--	--	--
NOV. 20...	--	120	62	14	--	--	--	--	--	--
DEC. 17...	--	120	75	13	.3	--	.20	--	--	.12
JAN. 15...	--	120	74	16	--	--	--	--	--	--
FEB. 26...	0	100	65	14	.3	.15	.05	.02	.12	.09
APR. 09...	0	120	70	13	.3	--	.05	--	--	.28
MAY 21...	0	110	67	13	.2	--	.09	--	--	.28
JUNE 25...	0	110	73	13	.3	--	.08	--	--	.15

DATE	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC=FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)
OCT. 23...	--	--	--	--	160	41	22	.7	454
NOV. 20...	--	--	--	--	160	40	21	.7	416
DEC. 17...	.04	260	.35	.91	170	50	21	.7	432
JAN. 15...	--	--	--	--	170	47	20	.7	434
FEB. 26...	.03	245	.33	.86	170	51	20	.6	389
APR. 09...	.09	243	.33	.98	160	47	19	.6	363
MAY 21...	.09	244	.33	.86	160	50	20	.6	370
JUNE 25...	.05	250	.34	.67	160	50	20	.7	403



## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
11160200 NEWELL CREEK AT BEN LOMOND, CALIF.--Continued

DATE	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	DIS- SOLVED BORON (B) (UG/L)
OCT. 23...	8.0	12.0	3	8.9	--	2.4	830	--	--
NOV. 20...	8.1	12.5	2	9.6	--	1.9	82	--	--
DEC. 17...	7.9	8.0	3	9.9	2.2	3.0	816	815	--
JAN. 15...	7.6	8.5	5	10.9	--	6.2	826	210	--
FEB. 26...	7.4	10.5	10	11.0	--	9.0	66	816	70
APR. 09...	8.2	11.0	10	10.8	1.1	1.3	823	85	--
MAY 21...	7.9	13.0	4	10.5	--	2.8	88	28	--
JUNE 25...	7.8	13.0	3	10.0	--	3.4	88	34	--

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

11160230 FALL CREEK BELOW BENNETT CREEK, AT FELTON, CALIF.

LOCATION.--Lat 37°03'11", long 122°04'45", in NE¼NE¼ sec.21, T.10 S., R.2 W., Santa Cruz County.  
DRAINAGE AREA.--4.33 mi<sup>2</sup> (11.21 km<sup>2</sup>).  
PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LITY AS CACO <sub>3</sub> (MG/L)
OCT. 24...	1325	2.7	--	--	--	36	5.2	9.3	2.0	139	0	110
NOV. 21...	1145	5.7	--	--	--	31	4.9	9.5	2.3	116	--	95
DEC. 19...	1145	2.8	23	20	0	34	5.1	9.8	1.8	134	--	110
JAN. 16...	1220	2.6	--	--	--	31	5.7	9.1	1.9	129	--	110
FEB. 27...	1140	5.4	--	--	--	35	5.1	9.0	2.3	117	0	80
APR. 10...	1200	11	22	40	20	28	4.7	8.5	1.8	108	0	87
MAY 22...	1105	5.8	22	10	0	30	5.4	9.0	1.9	120	0	93
JUNE 26...	1130	4.1	23	20	5	35	5.5	9.0	1.9	128	0	98

DATE	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (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- PHATE (PO <sub>4</sub> ) (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. 24...	8.6	8.1	--	--	--	--	--	--	--	110	0
NOV. 21...	7.3	8.5	--	--	--	--	--	--	--	98	2
DEC. 19...	8.0	8.6	.1	.01	.09	.03	157	.21	1.19	110	0
JAN. 16...	7.9	11	--	--	--	--	--	--	--	100	0
FEB. 27...	8.4	8.3	--	--	--	--	--	--	--	110	12
APR. 10...	7.0	7.8	.1	.00	.09	.03	133	.18	3.95	89	1
MAY 22...	8.1	8.1	.1	.00	.15	.05	144	.20	2.26	97	0
JUNE 26...	8.5	8.1	.1	.02	.09	.03	154	.21	1.70	110	5

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
11160230 FALL CREEK BELOW BENNETT CREEK, AT FELTON, CALIF.--Continued

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT.											
24...	15	.4	241	8.4	13.0	3	10.2	--	.9	812	80
NOV.											
21...	17	.4	213	8.0	12.0	15	10.2	--	1.9	460	--
DEC.											
19...	16	.4	235	8.1	8.5	1	11.7	1.6	1.7	40	84
JAN.											
16...	16	.4	232	7.7	9.0	1	11.2	--	4.1	8140	812
FEB.											
27...	15	.4	206	7.9	10.0	1	11.2	--	2.4	8150	81
APR.											
10...	17	.4	200	8.4	9.5	1	11.2	.6	.7	820	85
MAY											
22...	16	.4	212	8.2	11.0	1	10.7	--	1.2	819	82
JUNE											
26...	15	.4	224	8.2	12.5	1	10.1	--	1.3	87	62

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

## 11160250 FALL CREEK AT FELTON, CALIF.

LOCATION.--Lat 37°03'33", long 122°04'42", in Zayante Grant, Santa Cruz County.

DRAINAGE AREA.--4.94 mi<sup>2</sup> (12.79 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (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)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LITY AS CACO <sub>3</sub> (MG/L)
OCT.												
24...	1430	4.5	--	--	--	36	5.2	9.3	1.9	140	0	120
NOV.												
21...	1310	7.8	--	--	--	32	5.0	9.1	2.6	118	--	95
DEC.												
19...	1345	3.5	23	40	0	34	4.9	9.8	1.8	135	0	110
JAN.												
16...	1400	4.4	--	--	--	35	5.5	9.5	2.0	124	--	95
FEB.												
27...	1255	6.0	--	--	--	28	5.3	9.1	2.1	114	0	89
APR.												
10...	1320	12	22	10	0	30	4.2	8.5	1.8	108	0	100
MAY												
22...	1245	6.4	22	40	5	29	4.9	9.0	2.0	118	0	94

DATE	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (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- PHATE (PO <sub>4</sub> ) (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.											
24...	8.2	8.1	--	--	--	--	--	--	--	110	0
NOV.											
21...	6.9	8.4	--	--	--	--	--	--	--	100	4
DEC.											
19...	9.5	9.1	.1	.00	.06	.02	159	.22	1.50	110	0
JAN.											
16...	9.9	11	--	--	--	--	--	--	--	110	8
FEB.											
27...	9.8	8.6	--	--	--	--	--	--	--	92	0
APR.											
10...	6.6	8.0	.0	.08	.06	.02	135	.18	4.37	92	4
MAY											
22...	9.3	8.5	.1	.00	.18	.06	143	.19	2.47	93	0

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
11160250 FALL CREEK AT FELTON, CALIF.--Continued

DATE	PERCENT SODIUM	SODIUM AD-SORPTION RATIO	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	BIO-CHEMICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT. 24...	15	.4	247	8.4	13.0	2	10.3	--	.9	818	8140
NOV. 21...	16	.4	213	8.2	12.0	10	10.3	--	1.2	420	--
DEC. 19...	17	.4	238	8.4	8.0	1	11.4	2.2	.9	51	68
JAN. 16...	16	.4	232	7.7	9.0	1	11.2	--	4.0	80	815
FEB. 27...	17	.4	219	7.9	10.0	2	11.2	--	2.3	883	83
APR. 10...	16	.4	197	8.5	10.0	1	11.9	1.2	.5	818	810
MAY 22...	17	.4	223	8.2	11.5	1	10.9	--	1.2	820	827

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

## 11160450 ZAYANTE CREEK AT FELTON, CALIF.

LOCATION.--Lat 37°02'54", long 122°03'55", in Zayante Grant, Santa Cruz County.

DRAINAGE AREA.--26.4 mi<sup>2</sup> (68.4 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SiO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CaCO3 (MG/L)
OCT. 24...	1545	6.8	--	--	--	44	6.5	23	1.8	130	--	110
NOV. 21...	1430	48	--	--	--	42	8.8	23	4.1	133	--	110
DEC. 19...	1500	8.7	31	60	30	45	7.9	24	1.7	137	--	110
JAN. 16...	1515	8.2	--	--	--	45	9.5	25	2.0	140	--	110
FEB. 27...	1435	20	--	--	--	45	9.9	22	1.9	132	0	93
APR. 10...	1445	42	28	40	20	42	9.4	19	1.9	122	0	98
MAY 22...	1405	13	27	80	20	47	10	24	2.0	143	0	110
JUNE 26...	1330	8.6	30	80	20	49	9.2	25	1.8	137	0	110

DATE	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED ORTHO PHOSPHATE (PO4) (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)	NON-CARBONATE HARDNESS (MG/L)
OCT. 24...	42	23	--	--	--	--	--	--	--	140	30
NOV. 21...	48	21	--	--	--	--	--	--	--	140	32
DEC. 19...	49	26	.2	.52	.77	.25	256	.35	6.01	150	33
JAN. 16...	50	26	--	--	--	--	--	--	--	150	37
FEB. 27...	55	19	--	--	--	--	--	--	--	150	45
APR. 10...	67	16	.3	.27	.46	.15	245	.33	27.8	140	44
MAY 22...	66	21	.3	.36	.74	.24	270	.37	9.48	160	41
JUNE 26...	60	23	.3	.45	.80	.26	269	.37	6.25	160	48

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
11160450 ZAYANTE CREEK AT FELTON, CALIF.--Continued

DATE	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT. 24...	27	.9	353	8.3	15.0	5	10.1	--	1.0	46	380
NOV. 21...	26	.8	359	8.0	12.0	75	9.9	--	2.1	87400	--
DEC. 19...	26	.9	372	8.3	8.0	5	11.8	2.2	1.1	70	92
JAN. 16...	26	.9	399	7.8	9.0	5	11.6	--	3.6	8160	833
FEB. 27...	24	.8	376	7.9	12.5	7	11.0	--	2.7	200	44
APR. 10...	22	.7	363	8.5	11.0	9	10.9	.6	.6	74	420
MAY 22...	24	.8	406	8.3	14.0	3	10.3	--	1.1	98	200
JUNE 26...	25	.9	424	8.3	16.0	4	10.0	--	1.1	8300	200

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

## 11161400 CARBONERA CREEK AT SANTA CRUZ, CALIF.

LOCATION.--Lat 36°59'12", long 122°00'48", in NW¼SW¼ sec.7, T.11 S., R.1 W., Santa Cruz County.

DRAINAGE AREA.--7.42 mi<sup>2</sup> (19.22 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (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 CAC03 (MG/L)
OCT. 25...	1345	.90	--	--	--	21	--	24	3.0	83	--	67
NOV. 22...	1130	2.4	--	--	--	22	6.0	18	4.1	55	--	46
DEC. 20...	1115	1.2	33	110	60	32	7.9	32	2.9	87	--	70
JAN. 17...	1130	1.6	--	--	--	32	9.1	25	2.9	91	--	72
FEB. 28...	0930	3.3	--	--	--	30	8.0	20	2.4	76	0	61
APR. 11...	0845	8.8	29	60	40	22	7.2	16	2.0	66	0	56
MAY 23...	0845	2.2	26	180	50	27	8.0	22	2.7	88	0	71
JUNE 27...	0905	.97	30	210	70	29	6.9	25	2.8	88	0	71

DATE	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHATE (PO4) (MG/L)	DIS- SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
OCT. 25...	32	27	--	--	--	--	--	--	--	--	--	--
NOV. 22...	41	22	--	--	--	--	--	--	--	80	35	32
DEC. 20...	46	38	.1	1.7	.74	.24	243	.33	.79	110	41	38
JAN. 17...	46	32	--	--	--	--	--	--	--	120	43	31
FEB. 28...	43	23	--	--	--	--	--	--	--	110	46	28
APR. 11...	40	19	.2	.93	.25	.08	172	.23	4.09	85	30	29
MAY 23...	44	23	.1	.88	.40	.13	201	.27	1.19	100	28	32
JUNE 27...	43	26	.2	.67	.34	.11	210	.29	.55	100	29	34

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
11161400 CARBONERA CREEK AT SANTA CRUZ, CALIF.--Continued

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT. 25...	--	279	7.9	14.0	4	9.2	--	1.7	74	300	--
NOV. 22...	.9	257	7.6	10.0	40	10.2	--	2.2	6000	--	--
DEC. 20...	1.3	362	7.2	7.0	7	11.6	2.7	8.8	70	130	--
JAN. 17...	1.0	334	7.5	7.5	7	11.8	--	4.6	220	50	--
FEB. 28...	.8	304	7.4	9.0	10	11.1	--	4.8	220	200	--
APR. 11...	.8	246	8.0	9.0	20	11.1	1.2	1.1	300	300	.0
MAY 23...	1.0	299	7.5	12.0	4	10.0	--	4.5	290	B200	--
JUNE 27...	1.1	319	7.7	13.0	3	9.5	--	2.8	110	270	--

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

SAN LORENZO RIVER BASIN--Continued  
11161500 BRANCIFORTE CREEK AT SANTA CRUZ, CALIF.

LOCATION.--Lat 36°59'10", long 122°00'48", in NE¼SW¼ sec.7, T.11 S., R.1 W., Santa Cruz County.  
DRAINAGE AREA.--17.3 mi<sup>2</sup> (44.8 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water years 1973-75 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (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)	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 CAC03 (MG/L)
OCT. 25...	1400	2.3	--	--	--	35	--	30	3.5	142	--	120
NOV. 22...	1200	4.9	--	--	--	31	8.8	22	4.7	104	--	82
DEC. 20...	1135	3.1	34	60	60	49	15	36	3.1	148	--	120
JAN. 17...	1140	4.0	--	--	--	40	13	29	2.9	173	--	140
FEB. 28...	0940	7.2	--	--	--	37	13	26	2.8	120	0	93
APR. 11...	0900	23	37	300	30	24	8.4	18	2.2	86	0	69
MAY 23...	0905	3.7	29	130	50	45	13	30	3.3	163	0	130
JUNE 27...	0925	2.5	32	140	60	49	13	34	3.7	189	0	150

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO RIVER BASIN--Continued  
11161500 BRANCIFORTE CREEK AT SANTA CRUZ, CALIF.--Continued

DATE	DIS- SOLVED SULFATE (504) (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- PHATE (P04) (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 (YONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
OCT. 25...	41	30	--	--	--	--	--	--	--	--	--	--
NOV. 22...	42	25	--	--	--	--	--	--	--	110	28	29
DEC. 20...	55	37	.2	.82	.61	.20	307	.42	2.57	180	63	29
JAN. 17...	47	31	--	--	--	--	--	--	--	150	12	29
FEB. 28...	47	27	--	--	--	--	--	--	--	150	48	27
APR. 11...	34	20	.2	.62	.43	.14	190	.26	11.8	95	24	29
MAY 23...	50	27	.2	.58	.52	.17	281	.38	2.81	170	32	28
JUNE 27...	58	31	.2	.53	.55	.18	317	.43	2.14	180	21	29

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT. 25...	--	387	8.0	14.0	3	9.6	--	2.3	130	400	--
NOV. 22...	.9	337	7.6	10.0	55	9.9	--	4.2	6400	--	--
DEC. 20...	1.2	439	7.6	7.0	6	11.5	1.5	6.0	240	48	--
JAN. 17...	1.0	447	8.1	8.0	5	11.9	--	2.2	88	44	--
FEB. 28...	.9	348	7.5	9.0	10	10.8	--	6.1	8170	160	--
APR. 11...	.8	272	8.1	8.5	30	11.0	1.8	1.1	320	270	.0
MAY 23...	1.0	426	8.0	12.0	4	9.6	--	2.6	8330	190	--
JUNE 27...	1.1	520	8.0	13.0	3	9.3	--	3.0	8180	410	--

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

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

CALABAZAS CREEK BASIN  
11169581 CALABAZAS CREEK AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.

LOCATION.--Lat 37°16'03", long 122°03'31", in SE¼NE¼ sec.3, T.8 S., R.2 W., Santa Clara County.  
DRAINAGE AREA.--0.49 mi<sup>2</sup> (1.27 km<sup>2</sup>).  
PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDI- MENT (MG/L)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM
FEB.										
06...	1405	10.5	.80	14	.03	--	--	--	--	--
13...	1030	11.0	2.8	141	1.1	--	--	--	--	--
13...	1400	11.0	2.1	106	.60	--	--	--	--	--
MAR.										
07...	0900	11.5	11	2320	69	--	--	--	--	--
07...	1130	10.0	13	5540	194	6	8	10	12	15
07...	1415	10.5	6.4	1660	29	--	--	--	--	--

DATE	TIME	TOTAL SED. SIEVE DIAM. % FINER THAN .062 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .125 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 1.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 4.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 8.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 16.0 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 32.0 MM
FEB.											
06...	89	--	--	--	--	--	--	--	--	--	--
13...	81	--	--	--	--	--	--	--	--	--	--
13...	86	--	--	--	--	--	--	--	--	--	--
MAR.											
07...	45	61	74	82	85	88	92	96	98	100	
07...	18	24	32	40	46	56	76	83	90	98	
07...	17	22	29	38	50	63	77	86	96	100	

## 11169586 CALABAZAS CREEK TRIBUTARY NO. 3 AT MT. EDEN ROAD, NEAR SARATOGA, CALIF.

LOCATION.--Lat 37°15'54", long 122°03'19", in NW¼SW¼ sec.2, T.8 S., R.2 W., Santa Clara County.  
DRAINAGE AREA.--0.11 mi<sup>2</sup> (0.28 km<sup>2</sup>).  
PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDI- MENT (MG/L)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM
FEB.										
06...	1415	10.5	.33	11	.01	--	--	--	--	--
13...	1045	11.0	.99	489	1.3	--	--	--	--	--
13...	1410	11.0	.82	393	.87	--	--	--	--	--
MAR.										
07...	0920	11.5	5.6	9550	144	22	27	33	39	46
07...	1145	--	4.1	2320	26	--	--	--	--	--
07...	1440	10.5	2.2	3050	18	13	16	19	22	24

DATE	TIME	TOTAL SED. SIEVE DIAM. % FINER THAN .062 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .125 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 1.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 4.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 8.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 16.0 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 32.0 MM
FEB.											
06...	95	--	--	--	--	--	--	--	--	--	--
13...	91	--	--	--	--	--	--	--	--	--	--
13...	57	--	--	--	--	--	--	--	--	--	--
MAR.											
07...	52	60	69	78	85	90	98	99	99	100	
07...	26	32	38	45	53	66	88	93	97	100	
07...	29	32	34	35	36	39	48	70	95	100	

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

## CALABAZAS CREEK BASIN--Continued

11169588 CALABAZAS CREEK TRIBUTARY NO. 4 AT MT. EDEN ROAD, SARATOGA, CALIF.

LOCATION.--Lat 37°15'54", long 122°03'18". in NW¼SW¼ sec.2, T.8 S., R.2 W., Santa Clara County.  
DRAINAGE AREA (corrected).--0.26 mi<sup>2</sup> (0.73 km<sup>2</sup>).

PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL SEDI- MENT (MG/L)	TOTAL SEDI- MENT DIS- CHARGE (T/DAY)	TOTAL SED. FALL DIAM. % FINER THAN .002 MM	TOTAL SED. FALL DIAM. % FINER THAN .004 MM	TOTAL SED. FALL DIAM. % FINER THAN .008 MM	TOTAL SED. FALL DIAM. % FINER THAN .016 MM	TOTAL SED. FALL DIAM. % FINER THAN .031 MM
FEB.										
06...	1425	11.0	1.1	34100	101	18	19	25	31	40
13...	1055	11.0	3.4	43400	398	--	--	--	--	--
13...	1430	11.5	3.0	10300	83	--	--	--	--	--
MAR.										
07...	0935	11.5	32	28000	2420	17	20	24	29	35
07...	1205	10.5	11	17100	508	--	--	--	--	--
07...	1500	11.0	12	25300	820	17	21	25	30	36

DATE	TOTAL SED. SIEVE DIAM. % FINER THAN .062 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .125 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .250 MM	TOTAL SED. SIEVE DIAM. % FINER THAN .500 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 1.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 2.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 4.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 8.00 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 16.0 MM	TOTAL SED. SIEVE DIAM. % FINER THAN 32.0 MM
FEB.										
06...	49	56	61	68	74	82	100	--	--	--
13...	13	14	17	23	42	64	88	97	98	100
13...	23	25	27	32	39	53	77	89	97	100
MAR.										
07...	40	48	58	66	71	78	85	88	93	95
07...	21	28	37	45	50	55	64	78	89	94
07...	44	54	64	71	75	78	83	88	93	96



## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ALAMEDA CREEK BASIN  
11174200 ALAMEDA CREEK AT SUNOL, CALIF.

LOCATION.--Lat 37°35'15", long 121°53'21", in Valle de San Jose Grant, Alameda County.  
DRAINAGE AREA.--198 mi<sup>2</sup> (513 km<sup>2</sup>).  
PERIOD OF RECORD.--Chemical analyses: Water year 1975 (partial-record station).  
REMARKS.--Chemical-quality sample collected by Alameda County Water District.

DATE	TIME	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)
APR. 30...	1030	43	15	14	.06	.00	.06	.00

DATE	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (JTU)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
APR. 30...	235	.32	170	390	13.0	2	.2

## 11174600 ALAMO CANAL NEAR PLEASANTON, CALIF.

LOCATION.--Lat 37°41'10", long 121°54'54", in Santa Rita Grant, Alameda County.  
PERIOD OF RECORD.--Chemical analyses: Water year 1975 (partial-record station).  
REMARKS.--Chemical-quality samples collected by Valley Community Services District.

DATE	TIME	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT. 01...	1020	99	50	180	.82	--	.18	--	1.0	--
JAN. 28...	0930	110	47	180	--	1.2	--	.03	--	1.2
MAY 14...	0940	73	37	120	--	.86	--	.04	--	.90
JULY 23...	0930	51	44	160	--	17	--	.01	--	17

DATE	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	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. 01...	.24	--	859	1.17	450	1430	--	--	1	.0
JAN. 28...	--	.01	900	1.22	470	1480	--	--	6	.1
MAY 14...	--	.03	684	.93	330	1130	7.8	14.0	5	.0
JULY 23...	--	.03	790	1.07	310	1130	7.3	17.0	1	.2

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ALAMEDA CREEK BASIN--Continued  
11177300 SINBAD CREEK AT SUNOL, CALIF.

LOCATION.--Lat 37°35'41", long 121°53'07", in Valle de San Jose Grant, Alameda County.

DRAINAGE AREA.--6.50 mi<sup>2</sup> (16.84 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water year 1975 (partial-record station).

REMARKS.--Chemical-quality samples collected by Alameda County Water District.

DATE	TIME	INSTAN- TANFOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
APR. 30...	1010	1.2	62	26	25	.07	.00	.07

DATE	DIS- SOLVED AMMONIA NITRO- GEN (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)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (JTU)
APR. 30...	.00	375	.51	1.21	260	616	8

## 11178400 STONYBROOK CREEK NEAR NILES, CALIF.

LOCATION.--Lat 37°35'54", long 121°56'51", in SE¼ sec.11, T.4 S., R.1 W., Alameda County.

DRAINAGE AREA.--6.88 mi<sup>2</sup> (17.82 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water year 1975 (partial-record station).

REMARKS.--Chemical-quality samples collected by Alameda County Water District.

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
APR. 30...	0950	2.1	69	31	22	.20	.01	.21

DATE	DIS- SOLVED AMMONIA NITRO- GEN (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)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (JTU)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
APR. 30...	.00	452	.61	2.56	300	684	1	.0

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ALAMEDA CREEK BASIN--Continued  
11179010 SAN FRANCISCO RELEASE AT NILES RESERVOIR, AT NILES, CALIF.

LOCATION.--Lat 37°34'55", long 121°57'35", in SW¼ sec.15, T.4 S., R.1 W., Alameda County.

PERIOD OF RECORD.--Chemical analyses: Water year 1975 (partial-record station).

REMARKS.--Chemical-quality samples collected by Alameda County Water District.

DATE	TIME	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT. 15...	1030	56	19	24	1.6	--	.00	--	1.6	--
APR. 30...	0930	51	18	21	--	1.5	--	.00	--	1.5
JULY 23...	0940	59	21	21	--	1.5	--	.01	--	1.5

DATE	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT. 15...	.02	--	302	.41	220	513	8.3	1	<.1
APR. 30...	--	.00	281	.38	200	484	7.8	1	.1
JULY 23...	--	.03	353	.48	230	520	8.3	1	.0

11179040 KAISER PIT AT NILES, CALIF.

LOCATION.--Lat 37°34'08", long 121°58'56", in SW¼ sec.21, T.4 S., R.1 W., Alameda County.

PERIOD OF RECORD.--Chemical analyses: Water year 1975 (partial-record station).

REMARKS.--Chemical-quality samples collected by Alameda County Water District.

DATE	TIME	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT. 15...	1055	53	32	100	3.2	--	.26	--	3.5	--
JAN. 24...	0835	47	26	100	--	4.8	--	.25	--	5.0
APR. 30...	1445	51	26	75	--	2.5	--	.05	--	2.5
JULY 23...	1400	50	30	90	--	2.1	--	.14	--	2.2

DATE	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT. 15...	.12	--	541	.74	260	906	9.3	3	.0
JAN. 24...	--	1.8	494	.67	220	840	8.1	3	.0
APR. 30...	--	.00	448	.61	230	701	9.7	5	.1
JULY 23...	--	.03	472	.64	250	770	--	3	.1

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ALAMEDA CREEK BASIN--Continued  
11179050 SHINN PIT AT NILES, CALIF.

LOCATION.--Lat 37°34'12", long 121°59'15", in Arroyo de la Arroyo Grant, Alameda County.  
 PERIOD OF RECORD.--Chemical analyses: Water year 1975 (partial-record station).  
 REMARKS.--Chemical-quality samples collected by Alameda County Water District.

DATE	TIME	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS- SOLVED NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)
OCT. 15...	1000	50	29	89	.47	--	.08	--	.55	--
JAN. 24...	0915	47	26	110	--	6.4	--	.10	--	6.5
APR. 30...	1350	51	26	66	--	1.9	--	.05	--	1.9
JULY 23...	0925	53	31	91	--	.97	--	.13	--	1.1

DATE	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA+MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TUR- BID- ITY (JTU)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L)
OCT. 15...	.22	--	492	.67	240	787	9.8	3	<.1
JAN. 24...	--	.01	480	.65	220	846	8.2	2	.0
APR. 30...	--	.00	418	.57	230	675	9.6	4	.1
JULY 23...	--	.00	399	.54	260	768	--	5	.1

## WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

SAN LORENZO CREEK BASIN  
JOSEPH AVENUE, CASTRO VALLEY, CALIF.

LOCATION.--Lat 37°42'39", long 122°04'24"01, in San Lorenzo (Castro) Grant, Alameda County.

PERIOD OF RECORD.--Chemical analyses: Water year 1975 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	SUS- PENDE SOLIDS (MG/L)	SETTLE- ABLE MATTER (ML/L /HR)	TEMPER- ATURE (DEG C)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
OCT.											
27...	2355	E.10	1.6	1.2	2.8	.10	10	.2	--	58	5.0
28...	0240	E.10	.61	1.7	2.3	.10	12	.0	--	90	4.5
NOV.											
07...	1150	E.10	5.3	2.5	7.8	.31	5	.2	--	44	18
07...	1305	E.10	.88	1.6	2.5	.51	31	.5	--	16	10
JAN.											
06...	1045	--	3.4	1.3	4.7	.29	0	.1	--	48	4.4
MAR.											
21...	1350	E.05	.71	4.5	5.2	.25	157	4.2	10.5	200	36
21...	1520	E.10	.40	.77	1.2	.14	66	.2	10.0	47	10
21...	1600	E.20	.19	.46	.65	.07	101	.4	10.0	44	5.2

SAN LORENZO CREEK BASIN--Continued  
MADISON AVENUE, CASTRO VALLEY, CALIF.

LOCATION.--Lat 37°42'58", long 122°03'48"01, in San Lorenzo (Castro) Grant, Alameda County.

PERIOD OF RECORD.--Chemical analyses: Water year 1975 (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL KJEL- DAHL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL ORTHO PHOS- PHORUS (P) (MG/L)	SUS- PENDE SOLIDS (MG/L)	SETTLE- ABLE MATTER (ML/L /HR)	TEMPER- ATURE (DEG C)	CHEM- ICAL OXYGEN DEMAND (HIGH LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND 5 DAY (MG/L)
NOV.											
07...	1205	E.70	1.4	1.8	3.2	.33	87	.6	--	47	14
JAN.											
06...	1105	--	4.9	2.0	6.9	.70	7	.4	--	54	6.8
MAR.											
21...	1425	E.80	.85	.19	1.0	.12	15	.0	9.5	9	3.2
21...	1540	E1.5	.80	.58	1.4	.13	62	.4	9.5	27	7.5
21...	1635	E1.7	.53	1.2	1.7	.17	163	.5	10.0	56	11

E Estimated.

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

RUSSIAN RIVER BASIN  
DRY CREEK NEAR ASTI, CALIF.

LOCATION.--Lat 38°43'46", long 123°02'17", in SE4NE4 sec.11, T.10 N., R.11 W., Sonoma County.

DRAINAGE AREA.--92.3 mi<sup>2</sup> (239.1 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water year 1974 to current year (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LITY AS CaCO <sub>3</sub> (MG/L)
DEC. 04...	1250	232	12	60	17	7.7	8.7	.9	79	--	63
FEB. 04...	1020	765	14	110	12	5.8	5.7	1.1	64	--	50
APR. 30...	1040	73	16	10	20	9.5	9.1	.9	113	0	93
JUNE 24...	1100	--	--	--	--	--	--	--	--	--	100

DATE	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDE KJEL. NITRO- GEN (N) (MG/L)
DEC. 04...	14	5.8	.1	.70	.71	.03	.06	.31	.25	.34	.03
FEB. 04...	7.6	3.4	.1	.18	.31	.06	.04	.26	.39	.32	.00
APR. 30...	13	4.5	.1	.01	.01	.00	.00	.00	.03	.00	.00
JUNE 24...	--	--	.3	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO <sub>4</sub> ) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
DEC. 04...	.31	1.0	.11	.06	.02	109	.15	68.3	74	9	20
FEB. 04...	.43	.50	.09	.09	.03	83	.11	171	54	1	18
APR. 30...	.03	.01	.01	.12	.04	129	.18	25.5	89	0	18
JUNE 24...	--	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDE ORGANIC CARBON (C) (MG/L)
DEC. 04...	.4	161	7.7	11.0	10.4	95	2.5	--	--	9.6	--
FEB. 04...	.3	115	7.0	8.0	11.2	94	10	220	280	3.7	.5
APR. 30...	.4	193	7.8	14.5	10.1	99	2.9	813	810	.8	.1
JUNE 24...	--	237	8.2	18.0	11.5	121	--	--	--	--	--

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

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

RUSSIAN RIVER BASIN--Continued  
DRY CREEK NEAR AST1, CALIF.--Continued

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
DEC. 04...	1250	3	4	300	<10	1	0	36	<10
FEB. 04...	1020	8	4	80	10	1	40	24	40
APR. 30...	1040	0	5	160	<10	<1	0	33	<10
JUNE 24...	1100	1	8	390	--	--	--	--	--

DATE	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
DEC. 04...	15	<100	10	<.1	<.1	.1	10	25
FEB. 04...	13	<100	10	.1	.1	.2	40	18
APR. 30...	170	5	10	.1	.0	.1	0	32
JUNE 24...	--	2	10	.0	--	.2	--	--

## WARM SPRINGS CREEK ABOVE LITTLE WARM SPRINGS CREEK, AT SKAGGS SPRINGS, CALIF.

LOCATION.--Lat 38°41'42", long 123°01'39", in SW¼SE¼ sec.24, T.10 N., R.11 W., Sonoma County.

DRAINAGE AREA.--30.7 mi<sup>2</sup> (79.5 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water year 1974 to current year (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SI02) (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 (HC03) (MG/L)	CAR- BONATE (C03) (MG/L)	ALKA- LITY AS CAC03 (MG/L)
DEC. 04...	1130	72	14	60	16	7.0	6.3	.9	71	--	56
FEB. 04...	1015	312	15	20	10	5.5	5.0	.9	61	--	47
APR. 30...	1030	32	17	10	18	7.6	7.4	.6	96	0	78
JUNE 24...	1600	--	--	--	--	--	--	--	--	--	92

DATE	TIME	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDE KJEL. NITRO- GEN (N) (MG/L)
DEC. 04...	13	5.1	.1	.63	.64	.04	.03	.14	.16	.18	.00	
FEB. 04...	5.4	2.7	.1	.09	.07	.03	.00	.17	.16	.20	.04	
APR. 30...	10	4.4	.1	.02	.02	.00	.00	.01	.02	.01	.00	
JUNE 24...	--	--	--	.6	--	--	--	--	--	--	--	

## ANALYSIS OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

RUSSIAN RIVER BASIN--Continued  
WARM SPRINGS CREEK ABOVE LITTLE WARM SPRINGS CREEK, AT SKAGGS SPRINGS, CALIF.--Continued

DATE	DIS-SOLVED KJEL. NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS-SOLVED ORTHO- PHOS- PHATE (P04) (MG/L)	DIS-SOLVED ORTHO- PHOS- PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA+MG) (MG/L)	NON-CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
DEC. 04...	.19	.81	.11	.06	.02	100	.14	19.5	69	11	16
FEB. 04...	.16	.29	.09	.03	.01	75	.10	63.2	48	0	18
APR. 30...	.02	.03	.02	.12	.04	113	.15	9.76	76	0	17
JUNE 24...	--	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	DIS-SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDED ORGANIC CARBON (C) (MG/L)
DEC. 04...	.3	148	7.6	10.0	10.4	92	2.9	--	--	5.3	.4
FEB. 04...	.3	107	6.9	8.0	11.4	96	12	81	87	4.1	.7
APR. 30...	.4	175	7.3	12.5	10.4	98	7.7	823	20	.6	.1
JUNE 24...	--	208	7.9	23.0	10.1	117	--	--	--	--	--

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

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	DIS-SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
DEC. 04...	1130	1	4	80	<10	<1	0	29	<10
FEB. 04...	1015	3	2	30	<10	<1	40	34	30
APR. 30...	1030	0	8	60	<10	<1	0	26	<10
JUNE 24...	1600	1	9	1000	--	--	--	--	--

DATE	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
DEC. 04...	11	<100	10	<.1	<.1	.1	10	27
FEB. 04...	16	<100	10	.1	.1	.2	40	32
APR. 30...	170	<100	10	.1	.1	.1	0	35
JUNE 24...	--	1	10	.0	--	.2	--	--



## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

RUSSIAN RIVER BASIN--Continued  
LITTLE WARM SPRINGS CREEK AT SKAGGS SPRINGS, CALIF.

LOCATION.--Lat 38°41'41", long 123°01'34", in SW¼SE¼ sec.24, T.10 N., R.11 W., Sonoma County.

DRAINAGE AREA.--1.92 mi<sup>2</sup> (4.97 km<sup>2</sup>).

PERIOD OF RECORD.--Chemical analyses: Water year 1974 to current year (partial-record station).

DATE	TIME	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED SILICA (SiO <sub>2</sub> ) (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 (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LITY AS CACO <sub>3</sub> (MG/L)
DEC. 04...	1100	1.3	19	60	23	12	66	3.0	261	--	206
FEB. 04...	0940	10	14	60	15	7.2	14	1.3	95	--	74
APR. 30...	1030	2.5	18	0	27	11	52	2.5	234	0	193
JUNE 24...	1320	--	--	--	--	--	--	--	--	--	594

DATE	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA NITRO- GEN (N) (MG/L)	TOTAL ORGANIC NITRO- GEN (N) (MG/L)	DIS- SOLVED ORGANIC NITRO- GEN (N) (MG/L)	TOTAL KJEL- DAHL NITRO- GEN (N) (MG/L)	SUS- PENDE KJEL- NITRO- GEN (N) (MG/L)
DEC. 04...	25	10	.7	.26	.26	.05	.04	.15	.11	.20	.05
FEB. 04...	9.8	4.3	.1	.19	.18	.03	.04	.19	.24	.22	.00
APR. 30...	15	6.8	.5	.01	.01	.00	.00	.03	.06	.03	.00
JUNE 24...	--	--	2.5	--	--	--	--	--	--	--	--

DATE	DIS- SOLVED KJEL- NITRO- GEN (N) (MG/L)	TOTAL NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED ORTHO PHOS- PHATE (PO <sub>4</sub> ) (MG/L)	DIS- SOLVED ORTHO. PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
DEC. 04...	.15	.46	.08	.15	.05	294	.40	1.06	110	0	56
FEB. 04...	.28	.41	.07	.03	.01	114	.16	3.29	67	0	31
APR. 30...	.06	.04	.02	.06	.02	251	.34	1.69	110	0	49
JUNE 24...	--	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO <sub>2</sub> ) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	DIS- SOL- VED ORGANIC CARBON (C) (MG/L)	SUS- PENDE ORGANIC CARBON (C) (MG/L)
DEC. 04...	2.8	381	7.9	11.0	10.1	92	5.3	--	--	4.7	.5
FEB. 04...	.7	174	7.1	9.0	9.4	84	12	25	68	4.6	.5
APR. 30...	2.1	380	7.9	13.5	10.8	104	4.7	100	150	2.2	.0
JUNE 24...	--	1150	7.7	18.0	11.1	117	--	--	--	--	--

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

RUSSIAN RIVER BASIN--Continued  
LITTLE WARM SPRINGS CREEK AT SKAGGS SPRINGS, CALIF.--Continued

DATE	TIME	TOTAL ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM MA- TERIAL (UG/G)	DIS- SOLVED BORON (B) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM MA- TERIAL (UG/G)	TOTAL COPPER (CU) (UG/L)
DEC. 04...	1100	5	7	5300	<10	1	0	23	<10
FEB. 04...	0940	5	1	770	<10	<1	20	19	20
APR. 30...	1030	3	3	3200	<10	<1	0	25	<10
JUNE 24...	1320	20	21	22000	--	--	--	--	--

DATE	TOTAL COPPER IN BOTTOM MA- TERIAL (UG/G)	TOTAL LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM MA- TERIAL (UG/G)	TOTAL MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM MA- TERIAL (UG/G)	TOTAL ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM MA- TERIAL (UG/G)
DEC. 04...	13	<100	10	<.1	<.1	.2	10	24
FEB. 04...	12	<100	10	.1	.1	.2	30	27
APR. 30...	110	<100	10	.1	.1	.4	0	28
JUNE 24...	--	1	10	.0	--	.4	--	--

SAN RAFAEL CREEK BASIN  
11459790 SAN RAFAEL CREEK AT SIRARD LANE, AT SAN RAFAEL, CALIF.LOCATION.--Lat 37°59'04", long 122°32'58", in San Pedro Santa Margarita Las Gallinas Grant, Marin County.  
DRAINAGE AREA.--0.19 mi<sup>2</sup> (0.49 km<sup>2</sup>).  
PERIOD OF RECORD.--Sediment records: Water years 1972 to current year (partial-record station).

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT DIS- CHARGE (T/DAY)
JAN. 06...	1115	12.0	.53	46	.07	
FEB. 03...	1140	9.5	1.6	34	.15	
13...	1015	12.5	4.0	20	.22	

## 11459800 SAN RAFAEL CREEK AT SAN RAFAEL, CALIF.

LOCATION.--Lat 37°58'22", long 122°32'07", in San Pedro Santa Margarita Las Gallinas Grant, Marin County.  
DRAINAGE AREA.--1.24 mi<sup>2</sup> (3.21 km<sup>2</sup>).  
PERIOD OF RECORD.--Sediment records: Water years 1972 to current year (partial-record station).

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	INSTAN- TANEOUS DIS- CHARGE (T/DAY)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (MG/L)
JAN. 06...	0955	11.0	2.1	40	.23	--	--	--	--
FEB. 03...	1055	9.5	9.6	9	.23	100	--	--	--
13...	0920	13.0	21	28	1.6	96	98	99	100
MAR. 07...	1115	12.5	4.4	62	.74	98	100	--	--
SEP. 29...	1650	18.0	.28	4	.00	--	--	--	--

## ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

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WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

## SAN RAFAEL CREEK BASIN--Continued

## 11459810 IRWIN CREEK TRIBUTARY AT SAN RAFAEL, CALIF.

LOCATION.--Lat 37°59'28", long 122°30'29", in San Pedro Santa Margarita Las Gallinas Grant, Marin County.  
 DRAINAGE AREA.--0.11 mi<sup>2</sup> (0.28 km<sup>2</sup>).  
 PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS- PENDE SED. SIEVE DIAM. % FINER THAN .062 MM	SUS- PENDE SED. SIEVE DIAM. % FINER THAN .125 MM	SUS- PENDE SED. SIEVE DIAM. % FINER THAN .250 MM	SUS- PENDE SED. SIEVE DIAM. % FINER THAN 1.00 MM
FEB. 13...	1130	13.5	2.0	66	.36	95	99	100	

## 11459820 IRWIN CREEK TRIBUTARY NO. 2 AT SAN RAFAEL, CALIF.

LOCATION.--Lat 37°58'56", long 122°30'24", in San Pedro Santa Margarita Las Gallinas Grant, Marin County.  
 DRAINAGE AREA.--0.16 mi<sup>2</sup> (0.41 km<sup>2</sup>).  
 PERIOD OF RECORD.--Sediment records: Water years 1973 to current year (partial-record station).

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS- PENDE SED. SIEVE DIAM. % FINER THAN .062 MM	SUS- PENDE SED. SIEVE DIAM. % FINER THAN .125 MM	SUS- PENDE SED. SIEVE DIAM. % FINER THAN .250 MM	SUS- PENDE SED. SIEVE DIAM. % FINER THAN .500 MM	SUS- PENDE SED. SIEVE DIAM. % FINER THAN 1.00 MM
FEB. 13...	1225	13.0	5.9	38	.61	76	84	90	94	100

## 11459830 IRWIN CREEK AT SAN RAFAEL, CALIF.

LOCATION.--Lat 37°58'56", long 122°30'50", in San Pedro Santa Margarita Las Gallinas Grant, Marin County.  
 DRAINAGE AREA.--0.69 mi<sup>2</sup> (1.79 km<sup>2</sup>).  
 PERIOD OF RECORD.--Sediment records: Water years 1972 to current year (partial-record station).

DATE	TIME	TEMPER- ATURE (DEG C)	INSTAN- TANEOUS DIS- CHARGE (CFS)	SUS- PENDE SEDI- MENT (MG/L)	SUS- PENDE SEDI- MENT (T/DAY)	SUS- PENDE SED. SIEVE DIAM. % FINER THAN .062 MM	SUS- PENDE SED. SIEVE DIAM. % FINER THAN .125 MM	SUS- PENDE SED. SIEVE DIAM. % FINER THAN .250 MM	SUS- PENDE SED. SIEVE DIAM. % FINER THAN .500 MM	SUS- PENDE SED. SIEVE DIAM. % FINER THAN 1.00 MM
FEB. 03...	1340	10.5	3.5	20	.19	--	--	--	--	--
05...	1310	11.0	.33	3	.00	--	--	--	--	--
13...	1145	12.5	16	164	7.1	41	53	78	99	100
MAR. 07...	1430	13.0	.46	10	.01	--	--	--	--	--

ANALYSES OF GROUND WATER SAMPLES  
WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ALAMEDA CREEK  
Livermore-Amador Valley  
Alameda County

STATION NUMBER	LAT- I- TUDF	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 CAL- CIUM (CA) (MG/L)
373734121525901	37 37 34	121 52 59	01	003S001E32K02M	112LVRM	74-09-04	1345	28	140
					112LVRM	75-02-18	1010	--	120
					112LVRM	75-05-09	1130	--	130
					112LVRM	75-07-31	1140	--	140
373840121532901	37 38 40	121 53 29	01	003S001E29E03M	110ALVM	74-09-04	1300	25	120
					110ALVM	75-02-18	1040	--	120
					110ALVM	75-05-09	1100	--	140
					110ALVM	75-07-31	1105	--	96
374050121505101	37 40 50	121 50 51	01	003S001E10Q02M	110ALVM	74-09-04	1100	19	65
					110ALVM	75-02-20	1325	--	75
					110ALVM	75-06-05	1000	--	68
374102121493201	37 41 02	121 49 32	01	003S001E11J01M	110ALVM	74-09-04	1115	25	68
					110ALVM	75-02-18	1145	--	61
					110ALVM	75-05-09	1450	--	63
					110ALVM	75-07-31	1345	--	72

DATE OF SAMPLE	DIS- SOLVED MAG- NE- SIUM (MG/L)	ALKA- LITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (SO4) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
74-09-04	74	428	84	280	--	--	.58	--	979	650	1760	--
75-02-18	71	--	--	250	.00	.23	.23	906	--	590	1580	15.5
75-05-09	69	--	--	260	.00	.16	.16	1040	--	610	1680	--
75-07-31	79	--	--	260	.09	.28	.37	961	--	680	1580	18.5
74-09-04	54	442	67	210	--	--	.32	--	878	520	1190	--
75-02-18	58	--	--	310	.02	.01	.03	1020	--	540	1840	16.0
75-05-09	67	--	--	280	.06	.00	.06	1070	--	630	1870	--
75-07-31	47	--	--	120	.87	.01	.88	724	--	430	1240	19.0
74-09-04	30	222	48	52	--	--	2.3	--	390	290	682	--
75-02-20	34	--	--	61	3.2	.00	3.2	--	--	330	771	--
75-06-05	37	--	--	67	2.9	.01	2.9	444	--	320	767	--
74-09-04	79	344	49	120	--	--	9.3	--	631	500	1130	--
75-02-18	74	--	--	120	8.3	.00	8.3	--	--	460	1030	16.5
75-05-09	73	--	--	110	8.6	.00	8.6	590	--	460	1040	--
75-07-31	90	--	--	140	8.1	.01	8.1	710	--	550	1210	19.0

DATE OF SAMPLE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL BORON (B) (UG/L)
74-09-04	--	4000
75-02-18	4.6	--
75-05-09	7.1	--
75-07-31	2.2	--
74-09-04	--	2400
75-02-18	2.9	--
75-05-09	7.2	--
75-07-31	1.7	--
74-09-04	--	290
75-02-20	3.4	--
75-06-05	.9	--
74-09-04	--	370
75-02-18	13	--
75-05-09	.4	--
75-07-31	.9	--

## ANALYSES OF GROUND WATER SAMPLES

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WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ALAMEDA CREEK--Continued  
Livermore-Amador Valley--Continued  
Alameda County--Continued

STATION NUMBER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT	DATE OF SAMPLE	TIME	DIS- SOLVED SILICA (SI02) (MG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)
374105121521301	37 41 05	121 52 13	01	003S001E09L02M	110ALVM	74-09-04	1030	23	95
					110ALVM	75-02-18	1110	--	77
					110ALVM	75-05-09	1550	--	82
					110ALVM	75-07-31	1245	--	99
374112121485001	37 41 12	121 48 50	01	003S001E12F01M	110ALVM	74-09-04	1145	25	57
					110ALVM	75-06-05	1100	--	45
					110ALVM	75-07-31	1430	--	50

DATE OF SAMPLE	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	ALKA- LINITY AS CAC03 (MG/L)	DIS- SOLVED SULFATE (S04) (MG/L)	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)	HARD- NESS (CA+MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TEMPER- ATURE (DEG C)
74-09-04	70	426	79	190	--	--	6.7	--	878	530	1510	--
75-02-18	70	--	--	180	7.0	.00	7.0	839	--	480	1470	16.0
75-05-09	68	--	--	160	.03	.00	.03	846	--	480	1480	--
75-07-31	80	--	--	200	4.7	.00	4.7	905	--	580	1580	19.0
74-09-04	70	335	47	96	--	--	8.9	--	585	430	1030	--
75-06-05	5.8	--	--	65	6.3	.01	6.3	482	--	140	848	--
75-07-31	64	--	--	68	5.3	.01	5.3	495	--	390	871	19.0

DATE OF SAMPLE	TOTAL ORGANIC CARBON (C) (MG/L)	TOTAL BORON (B) (UG/L)
74-09-04	--	2000
75-02-18	1.0	--
75-05-09	11	--
75-07-31	.6	--
74-09-04	--	450
75-06-05	4.4	--
75-07-31	6.8	--

1/ 110ALVM Cenozoic, Quaternary, Alluvium.

112LVRN Cenozoic, Quaternary, Holocene, Pleistocene, Livermore Gravel.

Chemical-quality samples collected by Alameda County Flood Control and Water Conservation District.

ANALYSES OF GROUND WATER SAMPLES  
WATER QUALITY DATA, WATER YEAR OCTOBER 1974 TO SEPTEMBER 1975

ALAMEDA CREEK BASIN--Continued  
Niles Cone  
Alameda County

STATION NUMBER	LAT- I- TUOF	LONG- I- TUOE	SEQ. NO.	LOCAL IDENT- I- FIER	GEO- LOGIC UNIT <sup>1/</sup>	DATE OF SAMPLE	TIME	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)
373349121585701	37 33 49	121 58 57	01	004S001W2BD09M	111ALVF	74-10-15	1000	46	18
					111ALVF	75-03-11	0945	42	20
					111ALVF	75-04-30	1420	46	20
373355121543801	37 33 55	121 58 38	01	004S001W21P06M	111ALVF	75-07-23	1320	49	21
					111ALVF	74-10-15	1015	50	21
					111ALVF	75-03-11	1005	120	27
373357121591401	37 33 57	121 59 14	01	004S001W20R02M	111ALVF	75-04-30	1410	60	25
					111ALVF	75-07-23	1300	64	26
					111ALVF	74-10-15	0845	39	16
373424121584501	37 34 24	121 58 45	01	004S001W21F01M	111ALVF	75-03-11	0830	54	25
					111ALVF	75-04-30	1500	54	25
					111ALVF	75-07-23	1340	56	25
					111ALVF	74-10-15	0900	57	24
					111ALVF	75-03-11	0800	69	31
					111ALVF	75-04-30	0830	69	30
					111ALVF	75-07-23	0910	69	30

DATE OF SAMPLE	DIS- SOLVED CHLO- RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	HARD- NESS (CA, MG) (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	TOTAL ORGANIC CARBON (C) (MG/L)
74-10-15	--	1.4	.00	1.4	356	190	604	--	--	--
75-03-11	60	1.0	.00	1.0	362	190	613	--	--	1.6
75-04-30	62	1.4	.00	1.4	366	200	624	7.2	18.0	.7
75-07-23	71	1.9	.01	1.9	382	210	647	--	19.0	1.5
74-10-15	--	1.0	.00	1.0	332	210	593	7.7	--	--
75-03-11	59	1.6	.00	1.6	418	410	712	--	--	2.0
75-04-30	55	1.8	.00	1.8	403	250	685	--	18.0	.3
75-07-23	61	2.1	.01	2.1	425	270	724	--	19.5	3.2
74-10-15	--	.34	.00	.34	332	160	562	7.7	--	--
75-03-11	95	.22	.00	.22	435	240	744	--	--	3.2
75-04-30	84	2.0	.00	2.0	447	240	725	7.3	18.0	2.8
75-07-23	90	2.1	.01	2.1	453	240	772	--	20.0	2.0
74-10-15	--	.79	.00	.79	387	240	727	7.5	--	--
75-03-11	87	.27	.08	.35	491	300	844	--	--	1.7
75-04-30	84	3.4	.00	3.4	506	300	839	7.1	17.5	.6
75-07-23	85	4.6	.01	4.6	519	300	858	--	18.0	1.6

<sup>1/</sup> ALVF Cenezoic, Quaternary, Holocene, Alluvial Fan Deposits.  
Chemical-quality samples collected by Alameda County Water District.

DRY CREEK  
Mendocino County

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 (SiO <sub>2</sub> ) (MG/L)	DIS- SOLVED IRON (FE) (UG/L)
383348122505101	38 33 48	122 50 51	01	008N009W03P02M	111ALVM	75-04-18	0935	12	50
383536122520401	38 35 36	122 52 04	01	009N009W28N02M	111ALVM	75-04-18	1020	24	10
383655122530702	38 36 55	122 53 07	02	009N009W20E03M	111ALVM	75-09-16	1000	25	10
					111ALVM	75-04-18	1115	23	50
					111ALVM	75-09-16	1020	24	60
383954122554801	38 39 54	122 55 48	01	010N010W35Q02M	111ALVM	75-04-18	1220	22	60
					111ALVM	75-09-16	1130	23	40
384218122574701	38 42 18	122 57 47	01	010N010W22D01M	111ALVM	75-04-18	1305	25	40
					111ALVM	75-09-16	1200	27	420

DATE OF SAMPLE	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	DIS- SOLVED SODIUM (NA) (MG/L)	DIS- SOLVED PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO <sub>3</sub> ) (MG/L)	CAR- BONATE (CO <sub>3</sub> ) (MG/L)	ALKA- LINITY AS CACO <sub>3</sub> (MG/L)	DIS- SOLVED SULFATE (SO <sub>4</sub> ) (MG/L)	DIS- SOLVED CHLO- RYDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	DIS- SOLVED NITRITE PLUS NITRATE (N) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)
75-04-18	25	18	14	5.3	173	0	142	19	10	.1	.10	202
75-04-18	26	30	12	1.0	219	0	180	17	8.3	.1	1.4	219
75-09-16	24	30	13	.7	220	0	180	17	7.3	.1	1.1	226
75-04-18	19	17	14	1.0	174	0	143	--	5.5	.1	.01	160
75-09-16	19	16	10	.7	157	0	129	4.3	5.9	.1	.01	153
75-04-18	9.7	5.4	5.6	.7	36	0	30	14	4.5	.0	2.6	85
75-09-16	8.2	5.1	7.2	.3	36	0	30	12	5.7	.1	2.6	95
75-04-18	17	11	8.3	.7	86	0	71	17	5.0	.1	1.3	124
75-09-16	29	11	9.2	.3	84	0	69	17	5.3	.1	.60	122

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)	TEMPER- ATURE (DEG C)	DIS- SOLVED BORON (B) (UG/L)
75-04-18	189	.27	140	0	18	.5	342	14.0	170
75-04-18	233	.30	190	9	12	.4	391	14.0	160
75-09-16	231	.31	180	3	13	.4	--	17.5	150
75-04-18	--	.22	120	0	20	.6	284	14.0	300
75-09-16	158	.21	110	0	16	.4	--	17.0	220
75-04-18	91	.12	46	17	20	.4	124	11.0	20
75-09-16	91	.13	41	12	27	.5	--	16.0	20
75-04-18	132	.17	88	17	17	.4	194	14.5	20
75-09-16	143	.17	120	49	15	.4	188	17.5	40

1/ Cenozoic, Quaternary, Holocene, Alluvium.

## GROUND-WATER LEVELS, 1975

Del Norte County

## Smith River Basin

414643N1241156.1. Local number 16N/1W-17K1 H. Josephene Strouse. About 1.5 mi (2.4 km) north of Crescent City. Drilled domestic water-table well in Battery Formation of Pleistocene age, diam 6 in (152 mm), depth 40 ft (12.2 m) perforated 34-39 ft (10.3-11.9 m). Lsd 48 ft (14.6 m) above msl. Highest water level 7.3 ft (2.23 m) below lsd, Mar. 28, 1961; lowest 24.00 ft (7.315 m) below lsd, Jan. 27, 1960. Records available: 1953-54, 1958-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1974	22.6	APR. 28, 1975	12.2				

415322N1240847.1. Local number 17N/1W-2P1 H. Homer Martin. About 1.6 mi (2.6 km) north of Fort Dick. Drilled domestic water-table well in flood-plain deposits, diam 8 in (203 mm), depth 26 ft (7.9 m), casing information not available. Lsd 31 ft (9.4 m) above msl. Highest water level 10.9 ft (3.32 m) below lsd, Mar. 30, 1960; lowest 23.43 ft (7.141 m) below lsd, Oct. 14, 1964. Records available, 1952, 1958-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 10, 1974	21.0	APR. 28, 1975	16.8				

Humboldt County

## Eureka-Fortuna Area

403550N1240931.1. Local number 3N/1W-34J1 H. City of Fortuna. In the southwest corner of the city of Fortuna in the Eel River Valley. Drilled unused artesian well in Carlotta Formation of Ogle (1953), diam 12 in (305 mm), depth 496 ft (151.2 m) perforated 182-226 ft (55.47-68.88 m), 285-365 ft (86.87-111.2 m). Lsd 60 ft (18.3 m) above msl. Highest water level 23.3 ft (7.10 m) below lsd, Sept. 5, 1952; lowest 36.1 ft (11.00 m) below lsd, Nov. 17, 1959. Records available: 1951-53, 1958-75. Measurement by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1974	35.4	APR. 29, 1975	31.2				

403627N1241526.1. Local number 3N/2W-26R1 H. Winfred Goble. About 4.5 mi (7.2 km) west of Fortuna in the Eel River Valley. Drilled irrigation water-table well in alluvium of Quaternary age, diam 14 in (356 mm), depth 30 ft (9.1 m), casing information not available. Lsd 12 ft (3.7 m), corrected, above msl. Highest water level 0.00 ft (0.00 m), Feb. 18, 1959; lowest 14.5 ft (4.42 m) below lsd, Nov. 11, 1952. Records available: 1951-54, 1958-74. Well destroyed; measurement discontinued. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1974	10.4						

405211N1240528.1. Local number 6N/1E-29P1 H. Golden State Co., Ltd. In Arcata in the Mad River Valley. Drilled unused water-table well in alluvium of Quaternary age, diam 24 in (610 mm), depth 46 ft (14.0 m), casing information not available. Lsd 25 ft (7.6 m) above msl. Highest water level 4.5 ft (1.37 m) below lsd, Apr. 12, 1967; lowest 43.0 ft (13.11 m) below lsd, June 7, 1951. Records available: 1951-54, 1958-75. Well abandoned; measurement discontinued. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1974	10.0	APR. 29, 1975	5.5				



Mendocino County

## Laytonville Area

393837N1232818.1. Local number 21N/14W-30M1 M. Howard Winton. About 2 mi (3 km) south of Laytonville. Dug domestic and irrigation water-table well in alluvium of Holocene age, size 5 x 5 ft (2 x 2 m), depth 29 ft (8.8 m), casing information not available. Lsd 1,688 ft (514.5 m) above msl. Highest water level 2.68 ft (0.817 m) below lsd, Apr. 23, 1963; lowest 20.0 ft (6.10 m) below lsd, Aug. 25, 1959. Records available: 1952-55, 1958-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1974	17.3	APR. 24, 1975	4.9				

## Little Lake Valley

392459N1232103.1. Local number 18N/13W-18E1 M. Northwestern Pacific Railroad at Willits. Drilled unused artesian well in alluvium of Holocene age and continental deposits of Pliocene and Pleistocene age, diam 12 in (305 mm), depth 493 ft (150.3 m), casing information not available. Lsd 1,350 ft (411.5 m) above msl. Highest water level 17.8 ft (5.43 m) below lsd, Apr. 18, 1974; lowest 37.6 ft (11.46 m) below lsd, Oct. 24, 1960. Records available: 1958-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1974	20.4	APR. 24, 1975	18.5				

## Potter Valley

391944N1230657.1. Local number 17N/11W-18J1. Orvil Watkins. About 2.5 mi (4.0 km) southeast of Potter Valley. Drilled domestic artesian well in alluvium, diam 8 in (203 mm), depth 36 ft (11.0 m), casing information not available. Lsd 955 ft (291.1 m) above msl. Highest water level 1.33 ft (0.405 m) above lsd, Mar. 22, 1966; lowest 5.20 ft (1.585 m) below lsd, Oct. 13, 1964. Records available: 1951-55, 1958-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 10, 1974	1.2	MAR. 25, 1975	+0.9				

## Round Valley

394802N1231157.1. Local number 22N/12W-4B1 M. C. Rohn. About 2.5 mi (4.0 km) east of Covelo. Drilled irrigation artesian well in alluvium of Holocene age, diam 12 in (305 mm), depth 200 ft (61.0 m), casing information not available. Lsd 1,351 ft (411.8 m) above msl. Highest water level 3.7 ft (1.13 m) below lsd, Feb. 19, 1959; lowest 17.7 ft (5.39 m) below lsd, Dec. 15, 1959. Records available: 1951-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
NOV. 11, 1974	16.5	APR. 24, 1975	6.6				

## Sanel Valley

385800N1230648.1. Local number 13N/11W-19P1 M. Hanson Ranch. About 0.4 mi (0.6 km) south of Hopland. Dug and drilled irrigation water-table well in alluvium of Holocene age, size 4 x 5 ft (1.2 x 1.5 m), depth 44 ft (13.4 m), 12 in (305 mm) casing to 44 ft (13.4 m), perforated 24-44 ft (7.31-13.4 m). Lsd 488 ft (148.7 m) above msl. Highest water level 1.3 ft (0.40 m) below lsd, Feb. 9, 1960; lowest 21.0 ft (6.40 m) below lsd, Oct. 2, 1958. Records available: 1953-55, 1958-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 9, 1974	18.0	MAR. 26, 1975	5.2				

MENDOCINO COUNTY--ContinuedSanel Valley--Continued

385831N1230522.1. Local number 13N/11W-20G1 M. I. Bliss. About 0.5 mi (0.8 km) east of East Hopland. Drilled domestic artesian well in alluvium of Holocene age, diam 6 in (152 mm), depth 135 ft (41.1 m), casing information not available. Lsd 515 ft (157.0 m) above msl. Highest water level 2.3 ft (0.70 m) below lsd, Feb. 8, 1960; lowest 64.21 ft (19.571 m) below lsd, Oct. 4, 1961. Records available: 1953-55, 1958-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 9, 1974	12.1	MAR. 26, 1975	3.6				

Ukiah Area

391026N1231232.1. Local number 15N/12W-8L1 M. Arnold Bogner. About 1 mi (2 km) north of Ukiah. Drilled domestic water-table well in terrace deposits of Holocene age, diam 12 in (305 mm), depth 62 ft (18.9 m), casing information not available. Lsd 665 ft (202.7 m) above msl. Highest water level 10.10 ft (3.078 m) below lsd, Mar. 9, 1962; lowest 30.6 ft (9.33 m) below lsd, Dec. 5, 1959. Records available: 1951-55, 1958-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 9, 1974	26.2	MAR. 25, 1975	13.8				

Napa CountyNapa Valley

381730N1221632.1. Local number 5N/4W-11M1 M. DeWitt Machine Shop. Napa. Drilled unused water-table well in alluvium, diam 8 in (203 mm), depth 77 ft (23.5 m), casing information not available. Lsd 13 ft (4.0 m) above msl. Highest water level 2.56 ft (0.780 m) below lsd, Jan. 22, 1951; lowest 10.5 ft (3.20 m) below lsd, Sept. 8, 1950. Records available: 1950-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1974	8.2	MAR. 5, 1975	5.9				

382218N1221901.1. Local number 6N/4W-17A1 M. L. N. Bianchini. About 4 mi (6 km) north of Napa. Drilled irrigation water-table well in alluvium, diam 12 in (305 mm), depth 250 ft (76.2 m), cased to 250 ft (76.2 m). Lsd 67 ft (20.4 m) above msl. Highest water level 0.6 ft (0.18 m) below lsd, Feb. 21, 1969; lowest 23.7 ft (7.22 m) below lsd, Oct. 6, 1960. Records available: 1949-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1974	14.9A	MAR. 5, 1975	9.4				

382750N1222504.1. Local number 7N/5W-16B2 M. Lamont Morton. About 0.25 mi (0.40 km) northeast of Rutherford. Drilled unused water-table well in alluvium, diam 10 in (254 mm), depth 232 ft (70.7 m), casing information not available. Lsd 155 ft (47.2 m) above msl. Highest water level 4.0 ft (1.22 m) below lsd, Mar. 27, 1952; lowest 28.3 ft (8.63 m) below lsd, Sept. 7, 1961. Records available: 1949-53, 1955-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1974	16.9	MAR. 5, 1975	8.5				

A Well being pumped.

## NAPA COUNTY--Continued

## Napa Valley--Continued

383326N1223118.1. Local number 8N/6W-10Q1 M. Marolf Bros. About 3.5 mi (5.6 km) southeast of Calistoga. Drilled stock and irrigation water-table well in alluvium, diam 10 in (254 mm), depth 184 ft (56.1 m), casing information not available. Lsd 290 ft (88.4 m) above msl. Highest water level 0.1 ft (0.03 m) above lsd, Mar. 20, 1967; lowest 40.8 ft (12.44 m) below lsd, Sept. 14, 1950. Records available: 1949-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 2, 1974	6.6	MAR. 5, 1975	3.7				

## Siskiyou County

## Butte Valley

415105121545901. Local number 46N/1E-6N1 M. Leo Luzzi. About 4 mi (6 km) west-northwest of Macdoel. Drilled irrigation water-table well in lake deposits, diam 18 in (45.7 cm), depth 200 ft (61 m), casing information not available. Lsd 4,242.0 ft or 1,292.96 m (previously reported 4,242.4 ft or 1,293.08 m) above msl. MP top of concrete base, east side, 1.0 ft (0.30 m) above lsd. Highest water level 16.03 ft (4.89 m) below lsd, Sept. 17, 1964; lowest 43.3 ft (13.20 m) below lsd, June 6, 1974. Records available: 1953-54, 1958-75. Measurements after Mar. 3, 1966, by California Department of Water Resources and U.S. Bureau of Reclamation.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 6, 1974	23.2	OCT. 7, 1974	27.1	APR. 17, 1975	17.5	JULY 10, 1975	29.2

415523121563801. Local number 47N/1W-14B1 M. U.S. Department of Interior, Bureau of Reclamation. About 3.4 mi (5.5 km) southwest of Dorris. Drilled observation water-table well in lake deposits, diam 2 in (5.1 cm), depth 50 ft (15.2 m), casing information not available. Lsd 4,233.7 ft (1,290.4 m) above msl. Highest water level 6.1 ft (1.86 m) below lsd June 3, 1974; lowest 18.5 ft (5.6 m) below lsd, Nov. 26, 1951. Records available: 1951-54, 1958-75. Measurements after Mar. 3, 1966, by California Department of Water Resources and U.S. Bureau of Reclamation.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1974	8.0	APR. 29, 1975	6.4	JUNE 13, 1975	6.1	JULY 10, 1975	6.4

## Scott Valley

412722122522501. Local number 42N/9W-27N1 M. J. Starr. About 1 mi (2 km) east of Etna. Dug unused water-table well in alluvium (previously reported younger alluvium) of Quaternary age, size 5 x 5 ft (1.5 x 1.5 m), depth 19 ft (5.8 m), casing information not available. Lsd 2,930 ft (893.1 m) above msl. MP top of old pump base, 2.0 ft (0.61 m) above lsd. Highest water level 0.84 ft (0.26 m) below lsd, May 22, 1963; lowest 9.8 ft (3.0 m) below lsd, Sept. 23, 1959. Records available: 1953-54, 1958-75. Measurements after Mar. 4, 1966, by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 15, 1974	8.4	APR. 18, 1975	2.9				

413746122532401. Local number 44N/9W-28P1 M. R. H. Dille. About 3 mi (5 km) northeast of Ft. Jones. Drilled unused water-table well in alluvium (previously reported younger alluvium) of Quaternary age, diam 8 in (20.3 cm), depth 65 ft (19.8 m), casing information not available. Lsd, 2,711 ft (826.3 m) above msl. MP top of casing, 0.5 ft (0.15 m) above lsd. Highest water level 3.0 ft (0.91 m) below lsd, Apr. 10, 1974; lowest 26.7 ft (8.14 m) below lsd, Dec. 17, 1959, Jan. 28, 1960. Records available: 1953-54, 1958-75. Measurements after Mar. 4, 1966, by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 15, 1974	14.6	APR. 18, 1975	3.5				

## GROUND-WATER LEVELS, 1975

SISKIYOU COUNTY--Continued

## Shasta Valley

412955122310501. Local number 42N/6W-10J1 M. G. G. Maxwell. About 8 mi (13 km) northwest of Weed. Drilled domestic water-table well in pyroclastics, diam 6 in (15.24 cm), depth 110 ft (33.5 m), casing information not available. Lsd 2,835 ft (864.1 m) above msl. MP top of casing, 0.3 ft (0.09 m) above lsd. Highest water level 1.42 ft (0.43 m) below lsd, Apr. 27, 1962; lowest 15.9 ft (4.85 m) below lsd, Sept. 21, 1960. Records available: 1953-54, 1958-75. Measurements after Mar. 4, 1966, by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 15, 1974	9.8	APR. 18, 1975	3.0				

413710122235601. Local number 44N/5W-34H1 M. Henry Silva. About 1.8 mi (2.9 km) north of Big Springs. Drilled irrigation water-table well in Plutos Cave Basalt of Holocene age, diam 16 in (40.64 cm), depth 96 ft (29.3 m), casing information not available. Lsd 2,637 ft (803.8 m) above msl. MP pump base, north side, at lsd. Highest water level 23.46 ft (7.15 m) below lsd, Sept. 28, 1961; lowest 32.6 ft (9.94 m) below lsd, Apr. 28, 1961. Records available: 1953-54, 1958-75. Measurements after Mar. 4, 1966, by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 15, 1974	26.5	APR. 17, 1975	27.1				

Sonoma County

## Cloverdale Area

384717N1230048.1. Local number 11N/10W-19F2 M. California Division of Forestry. About 1 mi (2 km) south of Cloverdale. Drilled unused artesian well in Franciscan Formation of Late Jurassic to Late Cretaceous age, and Knoxville Formation of Late Jurassic age, diam 8 in (203 mm), depth 160 ft (48.8 m), cased to 135 ft (41.1 m), perforated 116-135 ft (35.4-41.1 m). Lsd 346 ft (105.5 m) above msl. Highest water level 0.55 ft (0.168 m) below lsd, Apr. 17, 1963; lowest 17.32 ft (5.279 m) below lsd, Sept. 15, 1964. Records available: 1952-55, 1958-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 9, 1974	7.4	MAR. 26, 1975	3.0				

## Healdsburg Area

383535N1225213.1. Local number 9N/9W-28N1 M. G. P. Brown. About 1 mi (2 km) south of Healdsburg. Drilled irrigation water-table in alluvium, diam 10 in (254 mm), depth 53 ft (16.2 m), casing information not available. Lsd 90 ft (27.4 m) above msl. Highest water level 7.6 ft (2.32 m) below lsd, Feb. 9, 1960; lowest 27.79 ft (8.470 m) below lsd, Sept. 26, 1972. Records available: 1953-54, 1958-75.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
APR. 18, 1975	19.81	SEPT. 16, 1975	26.32				

## Santa Rosa-Petaluma Area

382229N1224731.1. Local number 6N/8W-7P2 M. Joseph Kardohely. About 5 mi (8 km) southwest of Santa Rosa. Drilled domestic and irrigation water-table well in Merced Formation of Pliocene age, diam 8 in (203 mm), depth 120 ft (36.6 m), casing information not available. Lsd 95 ft (29.0 m) above msl. Highest water level 10.6 ft (3.23 m) below lsd, Mar. 22, 1950; lowest 49.0 ft (14.94 m) below lsd, Oct. 8, 1970. Records available: 1945, 1949-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 8, 1974	26.3	MAR. 13, 1975	16.2				

SONOMA COUNTY--Continued

## Sonoma Valley

381700N1222614.1. Local number 5N/SW-17C1 M. Virginia Raab. About 0.5 mi (0.8 km) north of Vineburg. Drilled domestic water-table well in alluvium, diam 6 in (152 mm), depth 64 ft (19.5 m), casing information not available. Lsd 85 ft (25.9 m) above msl. Highest water level 8.9 ft (2.71 m) below lsd, Mar. 20, 1973; lowest 28.0 ft (8.53 m) below lsd, Oct. 23, 1967. Records available: 1962-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1974	18.2	MAR. 20, 1975	12.7				

381452N1222648.1. Local number 5N/SW-29N1 M. Moll. About 2.8 mi (4.5 km) south of Sonoma. Drilled irrigation water-table well in alluvium, diam 10 in (254 mm), depth 100 ft (30.5 m), casing information not available. Lsd 16 ft (4.9 m) above msl. Highest water level 1.0 ft (0.30 m) Apr. 24, 1967; lowest 19.60 ft (5.974 m) below lsd, Jan. 2, 1963. Records available: 1951-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1974	13.0	MAR. 20, 1975	5.9				

Note.--Measurements were discontinued in 1975 for the following wells:

Siskiyou County, Butte Valley - 415802121570601. - Local number 48N/1W-26N1 M.  
Do. Shasta Valley - 414417122352901. - Local number 45N/6W-19E1 M.



SONOMA COUNTY--Continued

## Sonoma Valley

381700N1222614.1. Local number 5N/5W-17C1 M. Virginia Raab. About 0.5 mi (0.8 km) north of Vineburg. Drilled domestic water-table well in alluvium, diam 6 in (152 mm), depth 64 ft (19.5 m), casing information not available. Lsd 85 ft (25.9 m) above msl. Highest water level 8.9 ft (2.71 m) below lsd, Mar. 20, 1973; lowest 28.0 ft (8.53 m) below lsd, Oct. 23, 1967. Records available: 1962-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1974	18.2	MAR. 20, 1975	12.7				

381452N1222648.1. Local number 5N/5W-29N1 M. Moll. About 2.8 mi (4.5 km) south of Sonoma. Drilled irrigation water-table well in alluvium, diam 10 in (254 mm), depth 100 ft (30.5 m), casing information not available. Lsd 16 ft (4.9 m) above msl. Highest water level 1.0 ft (0.30 m) Apr. 24, 1967; lowest 19.60 ft (5.974 m) below lsd, Jan. 2, 1963. Records available: 1951-75. Measurements by California Department of Water Resources.

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT. 7, 1974	13.0	MAR. 20, 1975	5.9				

Note.--Measurements were discontinued in 1975 for the following wells:

Siskiyou County, Butte Valley - 415802121570601. - Local number 48N/1W-26N1 M.  
Do. Shasta Valley - 414417122352901. - Local number 45N/6W-19E1 M.





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